MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Deemed to be University
(Declared under Distinct Category by Ministry of Education, Govt. of India)
NAAC Accredited with A++ Grade

Project Report

on

Development of Authorized Student Centre (ASC Module)

Submitted By:

Harsha Sharma
(0901CA221031)

Industry Mentor:

Mr. Vikalp Sharma (CEO, Spring S Technologies)

Faculty Mentor:

Dr. Anshu Chaturvedi (Professor)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
Gwalior – 474005 (MP) Estd.1957

January – June 2024

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A project report submitted in partial fulfilment of the requirement for the degree of

MASTER IN COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted By:

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Internship cum experience Letter

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Harsha Sharma completed her internship and project from Dec 18, 2023,** till **April 18, 2024**. She worked as an **Intern**. We thank her for their contribution during her tenure with the organization and wish her all the best in his future endeavors.

For Spring S Technologies,

Vikalp Sharma
Founder & Chief Executive Officer

SPRING S TECHNOLOGIES
PARTNER

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CERTIFICATE

This is certified that **Harsha Sharma (0901CA221031)** has submitted the project report titled **Development of Authorized Student Centre (ASC Module)** under the mentorship of **Mr. Vikalp Sharma** (CEO, Spring S Technologies), in partial fulfilment of the requirement for the award of degree of **Master in Computer Application** of Computer Science and Engineering from **Madhav Institute of Technology and Science, Gwalior**.

Dr. Anshu Chaturvedi
(Professor)
Computer Science and Engineering

24/4/24

Dr. Manish Dixit
(Professor and Head)
Computer Science and Engineering

Dr. Manish Dixit
Professor & HOD
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

Deemed to be University

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Master in Computer Application in Computer Science and Engineering at **Madhav Institute of Technology & Science, Gwalior** is an authenticated and original record of my work under the mentorship of **Mr. Vikalp Sharma** (CEO, Spring S Technologies)

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Harsha Sharma
0901CA221031
2022-2024
Master in Computer Application
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

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I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I would like to extend my heartfelt appreciation to **Mr. Vikalp Sharma** (CEO, Spring S Technologies) for his exceptional mentorship, guidance, and assistance throughout the project. His valuable input and feedback during the course of the project have helped me enhance my knowledge and skills. His constant encouragement and support have been instrumental in the successful completion of this project.

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ABSTRACT

The strategic improvement of the Rajiv Gandhi Computer Saksharata Mission website's ASC Module (Authorized Student Centre) is the focus of this project report. With a particular focus on an institute centre, the project seeks to maximize certain aspects that are critical to administrative effectiveness.

This project's central focus is the ASC module, which has been painstakingly customized to meet the needs of a particular institute centre. Data-driven decision-making is made easier for administrators with the introduction of an accessible dashboard that offers real-time insights into admission and test indicators. One of the main goals is to optimize the admissions process, which includes managing accepted students, answering questions, and processing pending applications.

In order to create a seamless and user-friendly experience, the project also involves improving the ASC Module interface for handling student admissions, approvals, and inquiries. Furthermore, putting in place a reliable and effective password management system is emphasized in order to protect user confidentially and data integrity.

This program is a perfect fit with the larger goal of empowering educational institutions through technology. This project aims to contribute to the development of an educational management system that is more effective, streamlined, and user-friendly by precisely customizing the ASC module to fit the specific demands of the institute centre.

To sum up, this project focused effort to improve the ASC Authorized Student Centre module on the Rajiv Gandhi Computer Saksharata Mission website, it highlights how it has been strategically adjusted for use as an institute centre. The next sections will explore the approaches, results, and ramifications of these improvements, the project's significant impact on educational administration within the institute.

सार

राजीव गांधी कंप्यूटर साक्षरता मिशन वेबसाइट के एएससी मॉड्यूल (प्राधिकृत छात्र केंद्र) का रणनीतिक सुधार इस परियोजना रिपोर्ट का फोकस है। एक संस्थान केंद्र पर विशेष ध्यान देने के साथ, परियोजना कुछ पहलुओं को अधिकतम करने का प्रयास करती है जो प्रशासनिक प्रभावशीलता के लिए महत्वपूर्ण हैं।

इस परियोजना का केंद्रीय फोकस एएससी मॉड्यूल है, जिसे एक विशेष संस्थान केंद्र की जरूरतों को पूरा करने के लिए कड़ी मेहनत से अनुकूलित किया गया है। एक सुलभ डैशबोर्ड की शुरूआत के साथ प्रशासकों के लिए डेटा-संचालित निर्णय लेना आसान हो गया है जो प्रवेश और परीक्षण संकेतकों में वास्तविक समय की अंतर्दृष्टि प्रदान करता है। मुख्य लक्ष्यों में से एक प्रवेश प्रक्रिया को अनुकूलित करना है, जिसमें स्वीकृत छात्रों को प्रबंधित करना, सवालों के जवाब देना और लंबित आवेदनों को संसाधित करना शामिल है।

एक सहज और उपयोगकर्ता-अनुकूल अनुभव बनाने के लिए, परियोजना में छात्र प्रवेश, अनुमोदन और पूछताछ को संभालने के लिए एएससी मॉड्यूल इंटरफ़ेस में सुधार करना भी शामिल है। इसके अलावा, उपयोगकर्ता की गोपनीयता और डेटा अखंडता की सुरक्षा के लिए एक विश्वसनीय और प्रभावी पासवर्ड प्रबंधन प्रणाली स्थापित करने पर जोर दिया जाता है।

यह कार्यक्रम प्रौद्योगिकी के माध्यम से शैक्षणिक संस्थानों को सशक्त बनाने के बड़े लक्ष्य के लिए बिल्कुल उपयुक्त है। इस परियोजना का उद्देश्य संस्थान केंद्र की विशिष्ट मांगों को पूरा करने के लिए एएससी मॉड्यूल को सटीक रूप से अनुकूलित करके एक शैक्षिक प्रबंधन प्रणाली के विकास में योगदान देना है जो अधिक प्रभावी, सुव्यवस्थित और उपयोगकर्ता के अनुकूल है।

संक्षेप में, यह परियोजना राजीव गांधी कंप्यूटर साक्षरता मिशन वेबसाइट पर एएससी अधिकृत छात्र केंद्र मॉड्यूल को बेहतर बनाने के प्रयास पर केंद्रित है, यह इस बात पर प्रकाश डालता है कि इसे संस्थान केंद्र के रूप में उपयोग के लिए रणनीतिक रूप से कैसे समायोजित किया गया है। अगले अनुभाग इन सुधारों के दृष्टिकोण, परिणाम और प्रभाव, संस्थान के भीतर शैक्षिक प्रशासन पर परियोजना के महत्वपूर्ण प्रभाव का पता लगाएंगे।

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Chapter 1
Introduction

Chapter 1. Introduction

A key component of the mission's dedication to improving digital literacy in a variety of areas is the Rajiv Gandhi Computer Saksharata Mission website. In this project, we are concentrating on the website's ASC (Authorized Student Centre) module. Designed specifically for an institute centre, the goal of this project is to transform ASC procedures in order to promote effectiveness and openness.

One of the website's main features, the ASC module, is essential for controlling important facets of student involvement. The main goal of this project is to completely restructure and optimize the ASC module, with a strategic emphasis on enhancing the institute centre administrators' user experience.

One of the main goals is to create an intelligent dashboard that gives institute centre a comprehensive picture of admission data, exam schedules, and student status updates in real time. This dashboard streamlines procedures pertaining to accepted and pending admissions by acting as a central centre for decision-makers.

In addition, we are working on improving the ASC Module interface for handling student inquiries, approvals, and admissions as well as putting in place a safe password management system. By providing effective and safe data management, these upgrades not only help the institute centre's pressing demands but also further the goal of encouraging literacy in general.

We laid out the framework for a thorough analysis of the improvements made to the ASC module in this introduction, along with the particular areas of attention that will be covered, including student credential administration, examination management, and admissions procedures. The following parts will explore the project's approach, results, and wider ramifications, ultimately supporting the mission of the Rajiv Gandhi Computer Saksharata Mission to create a society that is literate.

1.1 Problem Identification: -

a. Problem Identification Overview: The project's emphasis on the ASC (Authorized Student Centre) module within a particular institute centre is introduced in this section. It describes how identifying problems is essential to resolving issues and maximizing the capabilities of the ASC module.

b. Examining the Dynamics of the Current ASC Module: This section goes into a detailed analysis of the institute centre's current ASC module. It offers information on the dashboard's present status as well as admissions procedures, exam coordination, and the view of accepted and pending student admissions.

c. Feedback and Consultation with Stakeholders: This section describes the process of interacting with administrators, educators, and other pertinent stakeholders, acknowledging the significance of

stakeholder perspectives. In order to understand the real-world difficulties encountered when using the ASC module, it highlights the input and insights that have been acquired.

d. Examining Dashboard Features: the dashboard's existing features and UI with a particular focus on its development. It pinpoints any flaws or inefficiencies in giving a thorough rundown of authorized and pending student statuses, exam and admission data, and other pertinent metrics.

e. Evaluation of Admissions Procedures: Streamlining Admissions: The complexities of the ASC module's admissions procedures are examined in this section. It carefully examines the current procedures to find any obstacles, hold-ups, or complications in efficiently handling accepted and pending admissions.

f. Analysing the Process of Student Approval: Improving Approval Procedures: This examines how the ASC module maintains the status of approved students, with a focus on student approval procedures. It finds any problems with the approval workflow and looks on ways to make it easier for administrators to handle.

g. Concerning Student Admissions That Are Pending: This looks at the current processes for managing queries and pending applications with a focus on pending student admissions. It uncovers problems with procedures and communication, setting the stage for tactical upgrades.

h. Assessing the Management of User Enquiries: Enhancing Inquiry Management: This evaluates the ASC module's current user inquiry management mechanism. It finds any holes or inefficiencies in the timely and efficient handling of user inquiries.

i. Improving Password Administration: Keeping Things Secure: The system's password management features in the ASC module with a focus on security. It points up any flaws or complications and suggests improvements for a safer and more convenient experience.

j. Problem Identification Conclusion: In summary, this component of the study highlights how important problem identification is to the institute centre's optimization of the ASC module.

Requirements: -

a. Overview of Requirements: In the framework of a designated institute centre, this section presents the particular criteria for improving the ASC (Authorized Student Centre) module. It describes the aims and purposes that will direct the process of development and improvement.

b. Requirements for Dashboard Functionality: The elements and functionalities that must be present in the dashboard. Its features include administrator-friendly navigation, graphic representations of admission and examination indicators, and real-time data updates.

c. Requirements for Admission Process: The conditions for expediting the ASC module's admissions processes are described in this section. The admissions process is made more efficient with features including an easy-to-use application screen, automated workflows for approval, and open lines of communication.

d. Requirements for Exam Management: This focuses on examination management, describes the features that are required to maximize scheduling and coordination. An exam calendar that is well-organized, tools for effective exam data management, and automatic alerts are a few examples of requirements.

e. Accepted Students Administration Conditions: The elements that must be included in order to manage allowed students. These features include a consolidated student database, easy access to student profiles, and tools for tracking approved students' progress within the ASC module.

f. Conditions for Pending Students' Admission: This section, which deals with pending student admissions, describes the conditions that must be met in order to enhance inquiry handling and speed up the processing of pending applications. Features like expedited approval workflows and automated communication systems are possible.

g. Needs for User Enquiry Management: The elements that must be included to manage user inquiries. These features include an enquiry tracking system, rapid response mechanisms, and tools that administrators can utilize to effectively handle user inquiries within the ASC module.

h. Needs for Password Management: This section, which is security-focused, outlines the conditions that must be met in order to improve password management in the ASC module. It has features like user-friendly password changing options, password reset functionality, and safe password storage.

i. User Training and Accessibility Requirements: The requirements for guaranteeing accessibility and providing user training for the ASC module are covered in this section. It has features that make it easier for administrators to use, such as user manuals, tutorials, and accessible design.

j. Integration and Scalability Requirements: This identifies the scalability and integration requirements and describes how the ASC module should work with current systems and future upgrades. Scalability for higher usage and smooth platform interaction are also taken into account.

k. Requirements' Conclusion: In summary, this highlights the significance of these needs in directing the creation and refinement of the ASC module. The implementation strategies and results based on these identified requirements.

1.2 Parent Organization: -

Spring S Technologies: -

Spring S Technologies is a leading global information technology company. By combining operational excellence with in-depth domain knowledge in two important industry verticals—advance technology and professional services—SPRiNGS provides business value to more than 100 global clients. SPRiNGS provides a wide range of information technology and consulting services, including industry-specific projects, software solutions, technology solutions, and research and analytics. SPRiNGS employed ten specialists in three delivery centres—Bhopal, Faridabad, and Hyderabad—as of May 1, 2013.

Have Faith in Innovation in Practice People are the foundation of SPRiNGS's innovative approach to innovation. Global IT provider SPRiNGS serves clients in every sector and on every continent. People are being empowered by the company to create a better, more connected society.

In the world of SPRINGS, everything and everyone is getting increasingly interconnected. This is having a significant impact on society and industry. Both new opportunities and threats are being created by it. It requires businesses to take a fresh stance on innovation. Innovation for All People, All Around Digital business intelligence technology, according to SPRiNGS, has the potential to empower all people, regardless of age or location.

The goal of the SPRiNGS strategy is to connect people, things, and information. By using this method, we can make conventional classrooms into interactive, dynamic, and collaborative learning spaces. Through the use of software and the Internet of things, SPRiNGS can transform firms into digital enterprises, fostering employee creativity, generating insights, and achieving significant efficiency gains. We refer to this at SPRiNGS as "Believe in Innovation."

1.3 Hardware and Software Specification: -

Hardware Specification: -

An Intel Core i3 CPU or higher is required for this system's hardware, guaranteeing adequate performance for a range of computing applications. The system can effectively manage multitasking and memory-intensive apps with a minimum of 5 GB of RAM. It also has a 250 GB solid-state drive (SSD) that is capable of providing quick system boot times and data access. A conventional hard disk drive (HDD) with a 50 GB capacity that offers plenty of room for storing files, documents, and apps is a great addition to the SSD. This SSD and HDD combo meets demands for performance and data retention by balancing speed and storage capacity. All things considered, these hardware requirements create a well-rounded computing platform appropriate for daily duties, business work, and moderate multimedia usage. The seamless and responsive user experience is the goal of this system, whether it is being used for document creation, media streaming, or online browsing.

Software Specification: -

With Windows 10 or a more recent version as its operating system, this setup offers a dependable setting for routine computer operations and software development. For a flawless user experience, it makes sure that a variety of drivers and programs are compatible. Included is Visual Studio Code, a small source code editor perfect for online development that supports a wide range of programming languages and add-ons. The database management system, MySQL, has extensive data storing features. For offline development, XAMPP makes it easier to set up a local web server environment. While a contemporary web browser such as Google Chrome makes it easier to preview and evaluate online material, Notepad takes care of basic text editing needs. Frontend development supports HTML and CSS, giving vital resources for designing aesthetically pleasing user interfaces. PHP and JavaScript provide robust scripting features for backend development. WiFi connectivity makes it simple to access networks and the internet, facilitating online collaboration and real-time testing of web applications. In conclusion, this setup offers a full web development environment with a variety of tools and technologies to enable state-of-the-art solutions.

Chapter 2
System Analysis

Chapter 2 : System Analysis

2.1 Problem Analysis:

This section offers a thorough examination of the issues that arose and how they were resolved when the Authorized Student Centre (ASC) module was improved for a particular institute centre. The following headings decompose the problem analysis into its constituent parts.

a. Dynamics of the Current ASC Module: Reviewing Current Functionality: The ASC module's current status is critically examined in this subsection, with particular attention paid to features pertaining to the dashboard, admissions procedures, exam coordination, and the administration of accepted and pending student admissions.

b. Feedback and Consultation with Stakeholders: Engaging Perspectives: This section explains how to ask administrators, teachers, and other stakeholders for their opinions. It highlights how crucial it is to take into account a variety of viewpoints in order to identify real-world difficulties encountered when applying the ASC module.

c. Difficulties with Dashboard Functionality: Examining User Interface: This section examines the dashboard's present features and user interface in detail, pointing up areas where it falls short in terms of giving a thorough rundown of information on admissions and exams, approved and pending student statuses, and other pertinent metrics.

d. Complexities of the Admission Process: Streamlining Workflow: This part examines the nuances of the ASC module's admissions procedures with the goal of locating any obstacles, hold-ups, or complications in the efficient management of accepted and pending admissions.

e. Problems with Student Approval Workflow: Optimizing Approval Mechanisms: With an emphasis on student approval procedures, this section examines the ASC module's management of authorized students' statuses, pointing out obstacles in the approval process and suggesting solutions for increased effectiveness.

f. Managing Student Admissions That Are Pending: Enhancing Inquiry Management: This section, which focuses on pending student admissions, looks at the current systems in place for responding to queries and pending applications while pointing up problems with procedures and communication.

g. Deficits in User Enquiry Management: Improving Communication: This section evaluates the present approach to handling user questions in the ASC module, finding any shortcomings or inadequacies in providing users with timely and efficient assistance.

h. Vulnerabilities with Password Management: Safeguarding User Entry: This section examines the system's password management features in the ASC module with a focus on security. It points out flaws or complications and suggests improvements to make the user experience safer and more intuitive.

i. Problem Analysis Conclusion: Combining Identified Challenges: To summarize this part, the study emphasizes how important problem analysis is to the institute center's ASC module optimization.

2.2. Feasibility Study:

2.2.1 Economical Feasibility Study: -

In order to increase administrative effectiveness and digital literacy, the proposed project would improve the Rajiv Gandhi Computer Saksharata Mission website's ASC (Authorized Student Centre) module. An overview of the economic feasibility study is provided below:

A. Personnel Costs: -

a. Guest Specialist: Employing a Guest Specialist for four days a month for a period of four months at a cost of Rs. 2000 is appropriate because they provide specialized knowledge for particular duties.

b. System Analyst Programmers: To guarantee committed programming and system analysis support, hire a System Analyst Programmer for 70 days spread over four months at a salary of Rs. 2000.

B. Additional Costs:-

a. Electricity: The hardware infrastructure must be powered by electricity, which costs Rs. 3000 per system.

b. Stationery: A small outlay of Rs. 150 on stationery guarantees accurate paperwork, which is necessary for the project.

c. Workspace Facilities: Setting aside Rs. 1000 for workspace facilities ensures a comfortable working environment by providing necessities like electricity, tables, and seats.

d. Systems: A Rs. 4,000 investment in systems facilitates project procedures, which are necessary for the creation and administration of systems.

C. Costs of Hardware and Software:

a.Development Server (PHP): Investing Rs. 3000 in a development server guarantees a stable testing environment for the creation of websites.

b. Server Software (O.S.): Giving server software a budget of Rs. 2000 ensures that the required operating system will be supported.

c.DBMS Server : An investment of Rs. 1000 on a database management server facilitates effective ASC module data handling.

the project is economically feasible since the suggested investments support the project's objectives and are necessary to produce the intended results.

2.2.2 Technical Feasibility Study: -

The suggested improvements to the Rajiv Gandhi Computer Saksharata Mission website's ASC (Authorized Student Centre) module show excellent technological viability and adhere to industry best practices and standards. Here is a thorough analysis based on the given specifications:

Hardware requirements: The minimum hardware components for the system we are utilizing are as follows:-

a. Processor: It is very possible to meet the criterion for an Intel Core i3 or higher generation processor. These processors provide more than enough processing capacity for database management and web application development. They also guarantee compatibility with modern software frameworks and facilitate the development of web applications that are effective and responsive.

b. RAM: Modern systems may easily accommodate the recommended RAM requirement of up to 5 GB. This amount is adequate to handle database operations, backend process management, and user experience optimization.
Sufficient RAM facilitates multitasking, allows for multiple user requests, and swiftly executes complicated queries—all of which are critical to the operation of the ASC module.

c. SSD: It is both practical and useful to have a 250 GB Solid State Drive. SSDs provide dependable storage and quick access to data, which enhances the ASC module's responsiveness and performance. Because SSDs have quicker read/write rates than conventional HDDs, they improve system responsiveness overall and speed up web page and data retrieval loads, improving user experience.

d. Hard Drive: It is sensible and practical to store website data, such as user profiles, admissions records, exam schedules, and other pertinent information, on a 50 GB hard drive. This allocation guarantees scalability and allows for the ASC's future growth.

The selected technical requirements follow industry norms and web application development best practices. They guarantee the ASC module's maximum functionality, dependability, and scalability, which supports the project's goals of increasing administrative effectiveness and advancing digital literacy. In line with the mission's objectives, using SSDs and making sure there is enough RAM allocated improves system performance and user experience.

Software requirements: The minimum software components for the system we are utilizing are as follows: -

The technical feasibility analysis shows great promise for improving the Rajiv Gandhi Computer Saksharata Mission website's ASC (Authorized Student Center) feature. Based on the given specifications, the following is a brief analysis:

a. Operating System and Software: Windows 10 and higher guarantee compatibility with contemporary programming tools such as MySQL and Visual Studio Code. These programs offer a stable development environment, as does Xampp for running local servers and Notepad for code editing. Adequate compatibility with popular web browsers guarantees broad accessibility.

b. Programming Languages: Flexibility and scalability are ensured by using HTML, CSS, JavaScript, and PHP for frontend and backend development. Because of the broad support for these languages, the ASC module may be developed and maintained effectively.

c. Network Requirements: During the development and deployment stages, leveraging Wi-Fi network connectivity makes it easier to collaborate and access online resources.

2.2.3 Behavioural Feasibility Study: -

a. Feasibility Study on Behaviour: The behavioural feasibility study is introduced in this part, along with its function in evaluating the effect of the project on user behaviour in the ASC (Authorized Student Centre) module. It offers a framework for assessing how well-received and flexible the developed functionalities

b. Acceptance and Engagement of Stakeholders: The project's stakeholders and how institute centre administrators and users were involved from the beginning to the end of the ASC module's development. The institute centre's administrators and users actively participated in the project and how accepting they were of the suggested improvements.

c. User Experience with Dashboard: This section explores the behavioural characteristics of the dashboard that was designed. It evaluates the user experience by looking at things like data accessibility, ease of navigation, and the overall effect on administrators' decision-making.
d. How Users Engage with Admissions Procedures: Improving the Admission User Experience: This section assesses how the changes affect user interactions while highlighting the effect on admission procedures. It looks at how administrators handle accepted and pending admissions and how their conduct has changed.

e. User Reaction to Authorized Students Administration: The behavioural feasibility of the improved ASC module is evaluated in this part, along with its implications for managing authorized pupils. It looks at how administrators' responses and interactions while handling approved students are affected by the unified database and enhanced tools.

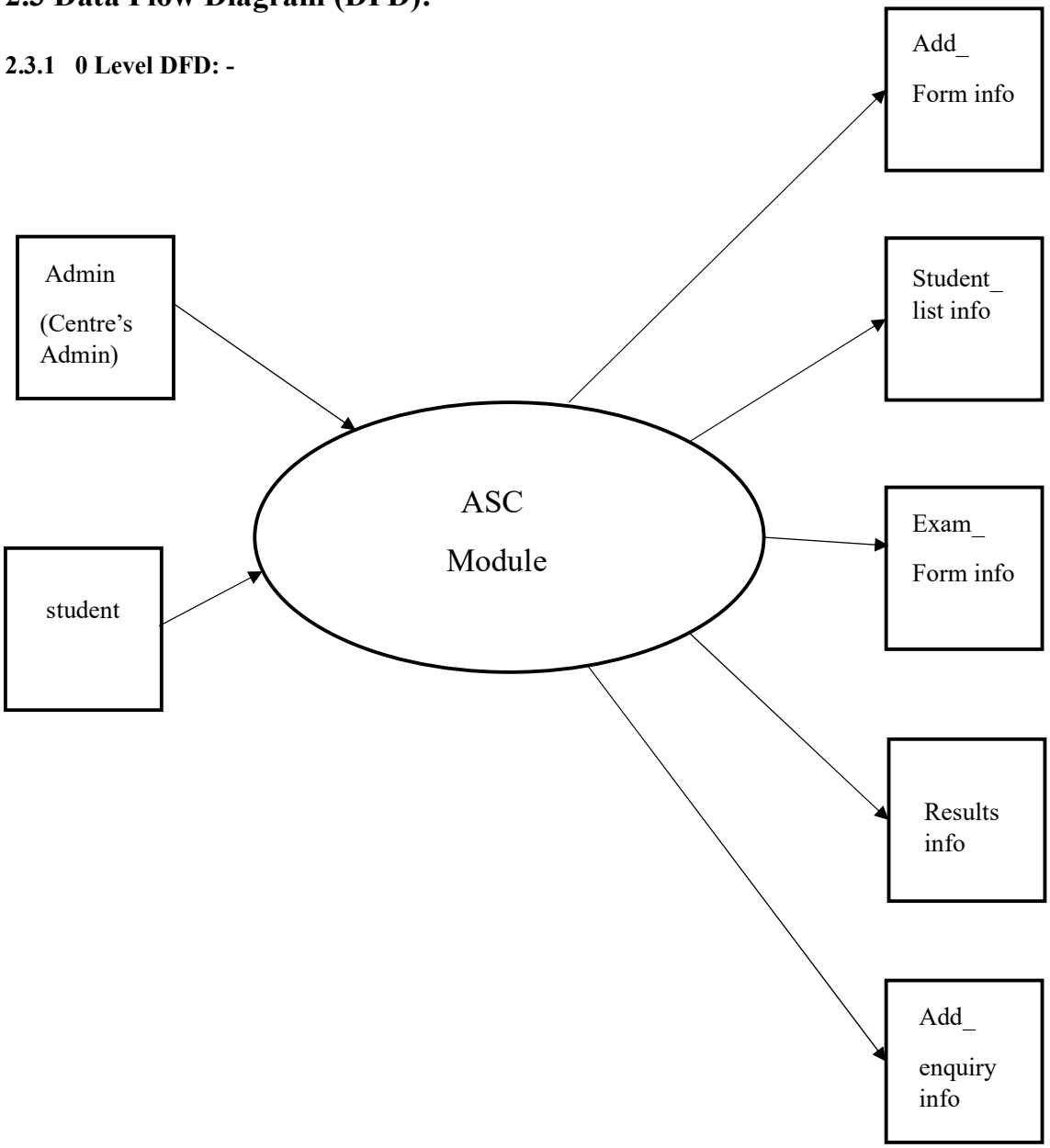
f. Managing Admissions for Pending Students: This section assesses the administrators' altered behaviour in response to questions and pending applications, with a particular focus on pending student admissions. It evaluates the effects of system changes on responsiveness and communication when addressing unresolved student complaints.

g. Communication and Management of User Inquiries: This section explores how administrators' interactions with users are affected by the ASC module enhancements, providing a detailed account of the behavioural feasibility of user inquiry management. It evaluates the efficacy and responsiveness of handling consumer inquiries.

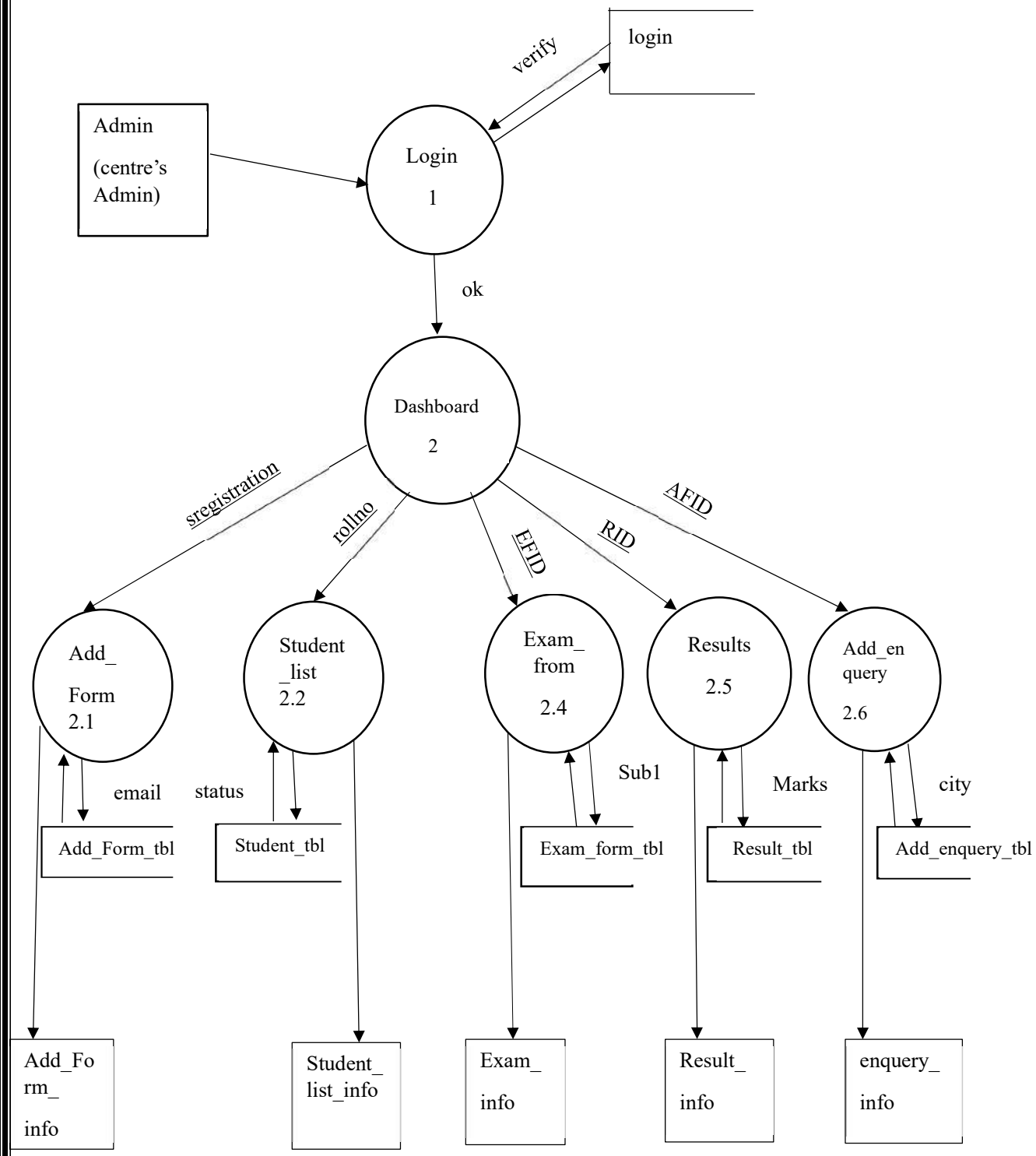
h. User Adoption of Password Management: Adoption of Secure Password Management: This section evaluates the behavioural viability of the enhanced password management features with a focus on security. It assesses how administrators implement user-friendly password change procedures and safe password storage.

2.3 Data Flow Diagram (DFD): -

2.3.1 0 Level DFD: -



2.2.1 Level 1 DFD for Admin : -



Chapter 3
System Design

Chapter 3: System Design

3.1 Database Tables: -

a. Add_Form _tbl

S. No	Name	Type	Constraint
1.	stdregistration	Varchar(70)	Primary key
2.	CID	Varchar(20)	Foreign Key
3.	Rollno	bigint(10)	Foreign Key
4.	cofees	bigint(20)	Foreign Key
5.	coduration	Varchar(70)	Foreign Key
6.	coname	Varchar(70)	Foreign Key
7.	stdname	Varchar(70)	-
8.	fname	Varchar(70)	-
9.	joindate	date	-
11.	gender	Varchar(70)	-
12.	nationality	Varchar(70)	-
13.	city	Varchar(70)	-
14.	dob	int	-
15.	phoneno	bigint	-
16.	email	Varchar(70)	-
17.	category	Varchar(70)	-
18.	add	Varchar(70)	-
19.	10th	Varchar(70)	-
20.	12th	Varchar(70)	-

21.	School name	Varchar(70)	-
22.	College name	Varchar(70)	-
23.	School year	date	-
24.	College year	date	-
25.	degree	Varchar(70)	-
26.	Degree year	date	-
27.	Degree university	Varchar(70)	-

b. Student_tbl

S.No	Name	Type	Constraint
1.	stdregistration	Varchar(70)	Foreign key
2.	CID	Varchar(20)	Foreign key
3.	rollno	bigint(10)	Primary key
4.	cocode	Varchar(70)	Foreign key
5.	cofees	bigint(20)	Foreign key
6.	coduration	Varchar(70)	Foreign key
7.	coname	Varchar(70)	Foreign key
8.	stdname	Varchar(70)	-
9.	fname	Varchar(70)	-
10.	joindate	date	-
11.	Status	Varchar(70)	-

c. Exam_tbl

S.No	Name	Type	Constraint
1.	EFID	int	Primary key
2.	sregistration	Varchar(70)	Foregin key
3.	cID	Varchar(20)	Foregin key
4.	rollno	bigint(10)	Foreign key
5.	cname	Varchar(70)	Foreign Key
6.	sname	Varchar(70)	Foreign Key
7.	fname	Varchar(70)	Foreign Key
8.	Sub1	Varchar(70)	-
9.	Sub2	Varchar(70)	-

d. Result_tbl

S.No	Name	Typ	Constraint
1.	rid	Varchar(20)	Primary key
2.	cID	Varchar(20)	Foregin key
3.	rollno	bigint(10)	Foreign key
4.	cname	Varchar(70)	Foreign Key
5.	sname	Varchar(70)	Foreign Key
6.	marks1	bigint(10)	-
7.	marks2	bigint(10)	-
8.	totalmarks	bigint(10)	-

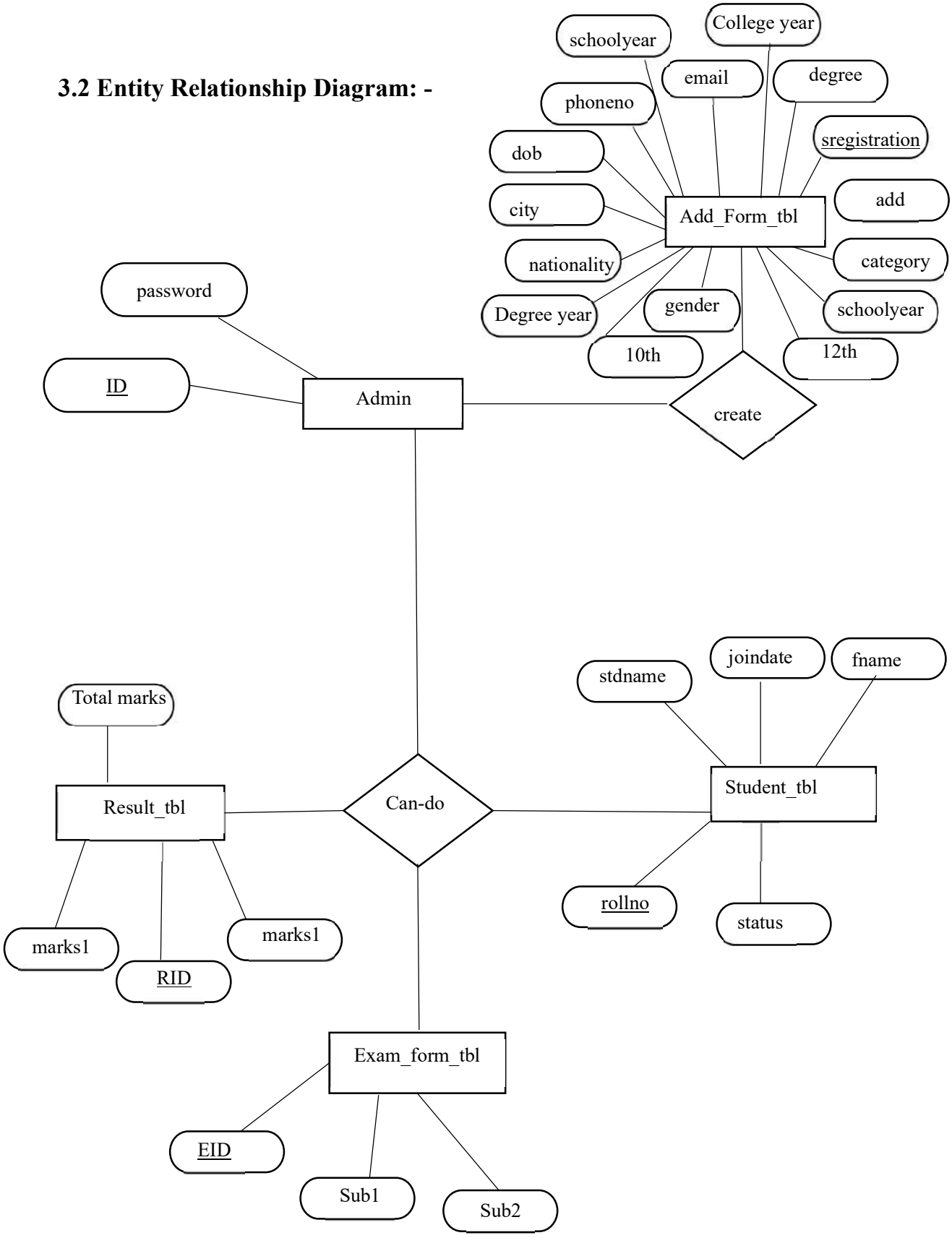
e. Add_enquery_tbl

S. No.	Name	Type	Constraint
1.	course	Varchar(70)	Foreign key
2.	AEID	Varchar(20)	Primary key
3.	Contact	Bigint(10)	-
4.	datetime	datetime	-
5.	category	Varchar(70)	-
6.	city	Varchar(70)	-

f. Admin_tbl

S. No.	Name	Type	Constraint
1.	id	Varchar(70)	Primary key
2.	password	Varchar(20)	-

3.2 Entity Relationship Diagram: -



Chapter 4
Testing

Chapter 4. Testing

In a project report, "testing" refers to the methodical process of assessing a software system to make sure it performs as planned. It entails running pre-written test cases, finding bugs, and verifying specifications. The objective is to evaluate the software's performance, dependability, and quality in order to reduce risks and increase user happiness. There are several different kinds of testing, including system, acceptance, unit, integration, performance, security, and usability testing. To successfully create a high-quality software product, problems must be found and fixed early in the development process, which can only be achieved through effective testing.

4.1 Unit Testing: -

Unit testing is evaluating distinct software system modules or components separately to make sure they function as intended. It emphasizes on confirming each unit's functioning and behavior, which aids in finding and fixing bugs early in the development cycle.

Test Case ID	**Section**	**Element Name**	**Test Data**	**Expected Result**	**Actual Result**
L1-1	admin_login	username, password	No Data	Please fill out the field.	Test case passed
L1-2	admin_login	username, password	Mp#2353-,#$_.....	Error occurred	Test case passed
L1-3	admin_login	username, password	Mp01,mp……	Successfully logged in	Test case passed
L2-1	Examform_tbl	EFID,Sregistration, cID, rollno, cname sname,fname,sub1,sub2	No Data	No changes occurred	Test case passed
L2-2	Examform_tbl	EFID,Sregistration, cID, rollno, cname sname,fname,sub1,sub2	0901#$26688	Error occurred	Test case passed
L2-3	Examform_tbl	EFID,Sregistration, cID, rollno, cname sname,fname,sub1,sub2	0901CA221031	Successfully showing correct data	Test case passed

L3-1	Result_tbl	RID,Sregistration, cID, rollno, cname sname,totalmarks	No Data	Please fill out the field and	Test case passed
L3-2	Result_tbl	RID,Sregistration, cID, rollno, cname sname,totalmarks	0901#$26688	Error occurred	Test case passed
L3-3	Result_tbl	RID,Sregistration, cID, rollno, cname sname,totalmarks	0901CA221031	Successfully shared	Test case passed

4.2 Compatibility Testing: -

Objective: Ensure the website functions correctly on various browsers, devices, and operating systems.

Test Matrix: Website is run over combinations of browsers, devices, and operating systems tested.

Result: Website successfully work on various devices and different browsers.

Test Scenario	**Element Name**	**Element Type**	**Input**	**Expected Result**	**Actual Result**	**Test Result**
1	Device Compatibility	Responsiveness on different devices	Checking Responsiveness on devices for e.g., Laptops, tablets, Smartphones	Website will adapt different screen sizes on different devices without any disbalancing	As expected, the website is full responsive and working perfectly	Passed

2	Operating System Compatibility	Checking website behavior,on different operating systems	Working on different Operating Systems e.g., Android systems, macOS, iOS, Windows, etc.	There shouldn't be any changes in website Designing, Working, Accessibility and Performance speed, while switching the Operating System	As Expected, The Website is working all same even on different Operating System expect Linux operating system	Passed
3	Admin-user Security	Data Security	Testing security measures of admin	The logged in admin will be able to see details and check all information of user and make changes if required.	As Expected, Details of login username is shown, no one can see details of other user. Only admin can access hence, Secured .	Passed

4.3 Validation Testing: -

According to the project report, the Rajiv Gandhi Computer Saksharata Mission website's ASC module underwent validation testing to make sure the updated features matched the mission's improved digital literacy objectives. This entails confirming the intelligent dashboard's functionality, which offers instant access to admissions information, exam schedules, and student updates. Validation testing also makes ensuring that improvements to the ASC module interface manage student requests, approvals, and admissions efficiently and incorporate a safe password management system. The project serves the needs of the institution centre and advances the larger goal of boosting literacy by confirming these improvements. The paper provides a thorough review of the ASC module enhancements, addressing topics such the management of exams, admissions processes, and student credential administration. Subsequent sections of the report delve deeper into these topics.
the methodology, outcomes, and wider effects of the initiative in furthering the mission's objective of establishing a literate society.

4.4 Portability Testing: -

Objective: Ensure the module performs efficiently when transported from developer device to client device .

Compliance: To ensure that there is no change in performance of website when ported to client device.

Results: All the files and database can be transported from developer device to client device.

4.5 Disaster Recovery and Backup Testing: -

Objective: Verify the website's ability to recover from disasters and data loss.

Test Scenarios: Document scenarios for disaster recovery and data backup testing.

Result: We have saved our data and files in multiple non-volatile disk on different locations to prevent failure and data is Backed up successfully.

Chapter 5
Implementation

Chapter 5. Implementation

First of all, we have to download some software to the system for the implementation of our project which are as follows: -

5.1 Visual Studio Code:

5.1.1 Go to the official Visual Studio website https://visualstudio.microsoft.com/downloads/

5.1.2 Click on the “Download” button for the version of Visual studio you want to install.

5.1.3 Choose the components you want to install, such as languages, frameworks, and tools.

5.1.4 Click on the “Install” button to start the installation process.

5.1.5 Follow the installation wizard and select the options that suit your needs.

5.2 PHP:

5.2.1 Setup the PHP development server like XAMPP. Choose the integrated development environment or code editor for writing PHP code, such as Visual Studio Code.

5.2.2 The project involves interacting with the database, design the database schema. Determine the tables, fields and relationships between them. Choose the database management system (DBMS) such as MYSQL.

5.2.3 Create the necessary PHP files to handle different parts of your project. Implement the core functionality using PHP, including handing forms, processing user inputs and interacting with database. Use the HTML and CSS to create interface.

5.2.4 We used MySQL in localhost through XAMPP or web browser.

The project's implementation phase focuses on turning the suggested improvements to the Rajiv Gandhi Computer Saksharata Mission website's ASC module into concrete actions. The module will be systematically reorganized and optimized throughout this phase in order to fulfil the intended objectives of encouraging efficacy and transparency. To start, in order to pinpoint areas that need improvement, the development team will thoroughly examine the current ASC module.

This entails evaluating the backend systems, user interfaces, and features currently in place to see how well they match the project's goals. The team will create a thorough implementation plan that outlines the precise tasks, deadlines, and resource requirements for each enhancement based on the results of this assessment.

The development of an intelligent dashboard that gives institute centres a thorough view of admission data, exam schedules, and real-time student status updates is one of the main objectives of the deployment phase. Decision-makers can make well-informed decisions fast and effectively by using this dashboard as a single point. The development team will create and put into place the user interfaces, data visualization elements, and backend infrastructure required to enable the dashboard's capabilities in order to do this.

To better manage student inquiries, approvals, and admissions, work will be focused on enhancing the ASC module interface in addition to the intelligent dashboard. Redesigning user interfaces to increase usability, adding workflow automation capabilities to expedite procedures, and including communication tools are some examples of this encourage communication between students and administrators. In addition, the implementation phase will concentrate on establishing a secure password management system in order to improve the security of the ASC module. To guarantee the confidentiality, integrity, and accessibility of sensitive data, it is necessary to put encryption techniques, access control systems, and audit trails into place.

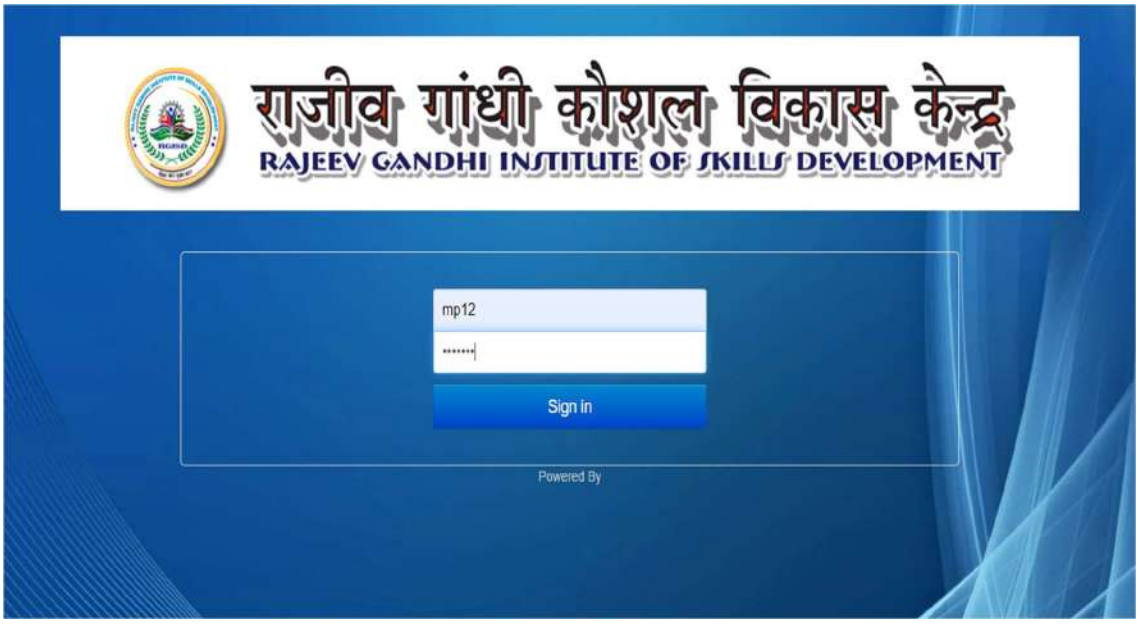
The development team will follow industry standards and best practices during the implementation phase to guarantee the ASC module's maintainability, scalability, and stability. Before deployment, this entails carrying out exhaustive testing and quality assurance procedures to find and fix any problems or flaws.

All things considered, the implementation phase is essential to implementing the planned improvements and accomplishing the project's goals of encouraging efficacy and transparency in ASC processes. Through the effective application of these changes, All things considered, the implementation phase is essential to implementing the planned improvements and accomplishing the project's goals of encouraging efficacy and transparency in ASC processes. The project seeks to assist the Rajiv Gandhi Computer Saksharata Mission in establishing a literate and technologically empowered society by effectively executing these enhancements.

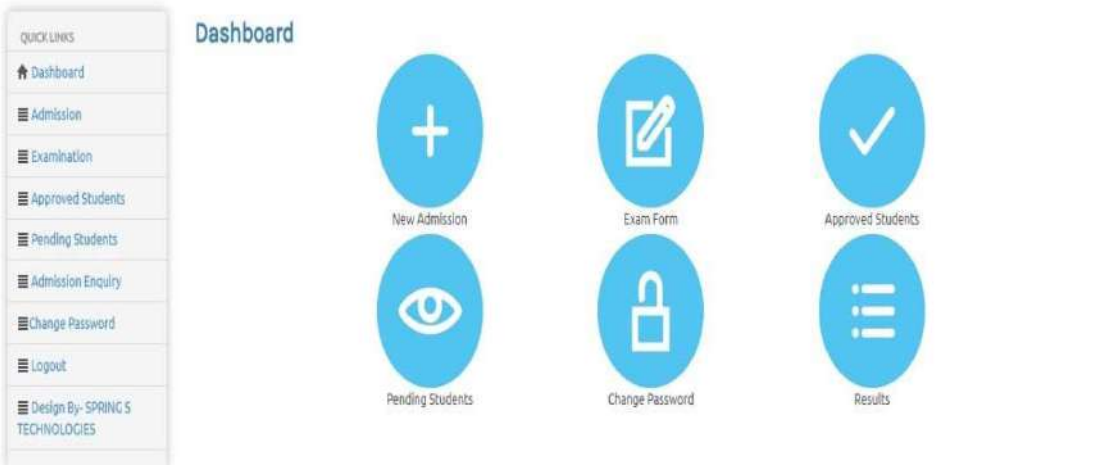
Chapter 6
Sample Forms and Reports

Chapter 6. Sample Forms and Reports

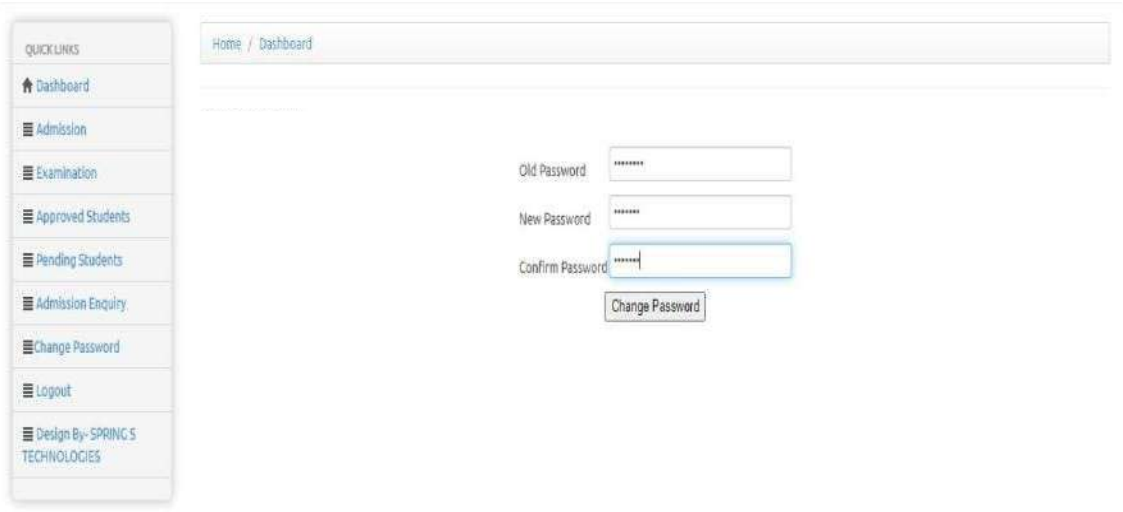
a. Admin Login



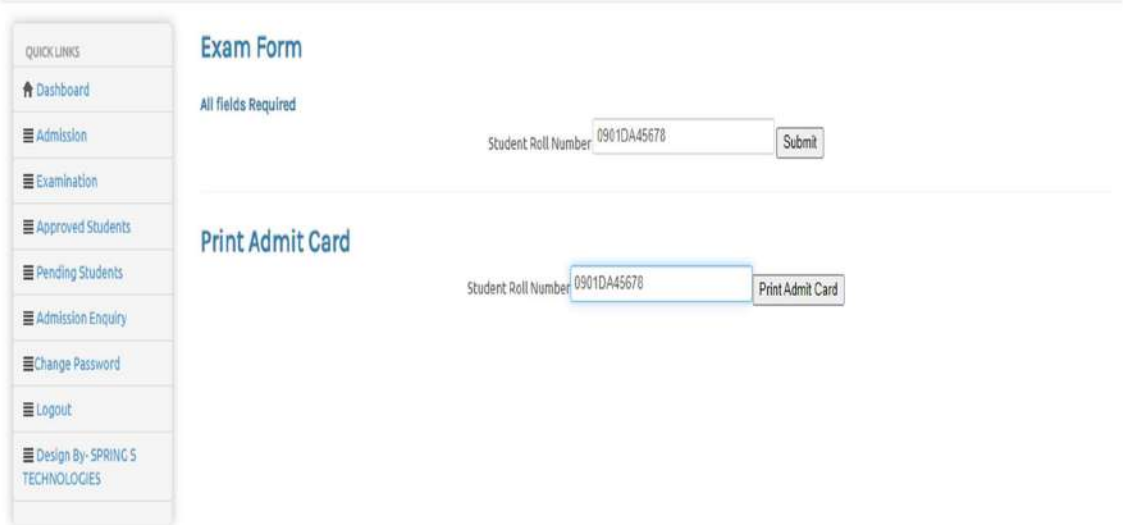
b. Dashboard



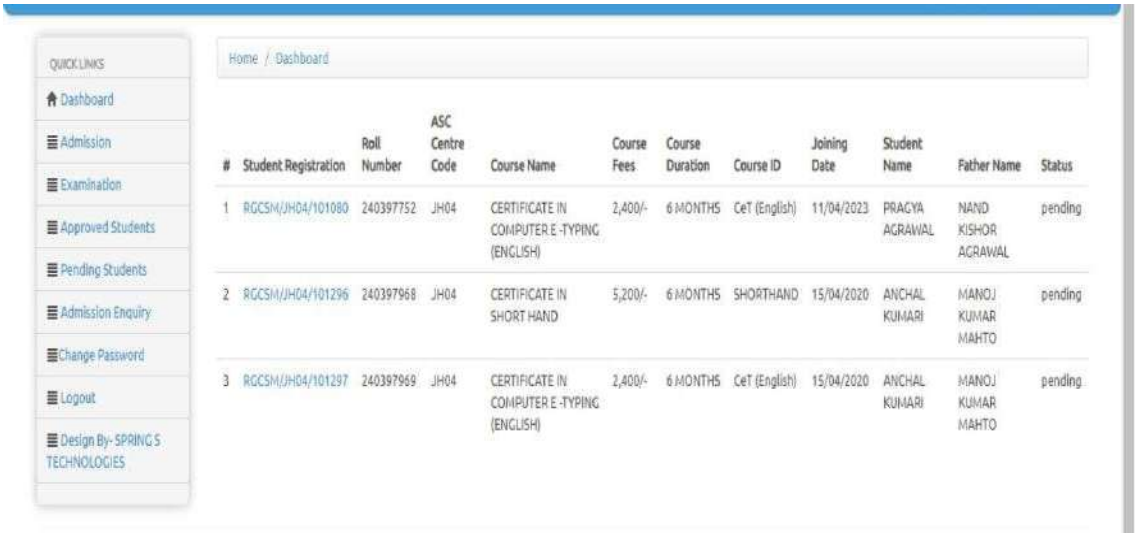
c. Change Password



d. Exam Form



e. Pending student



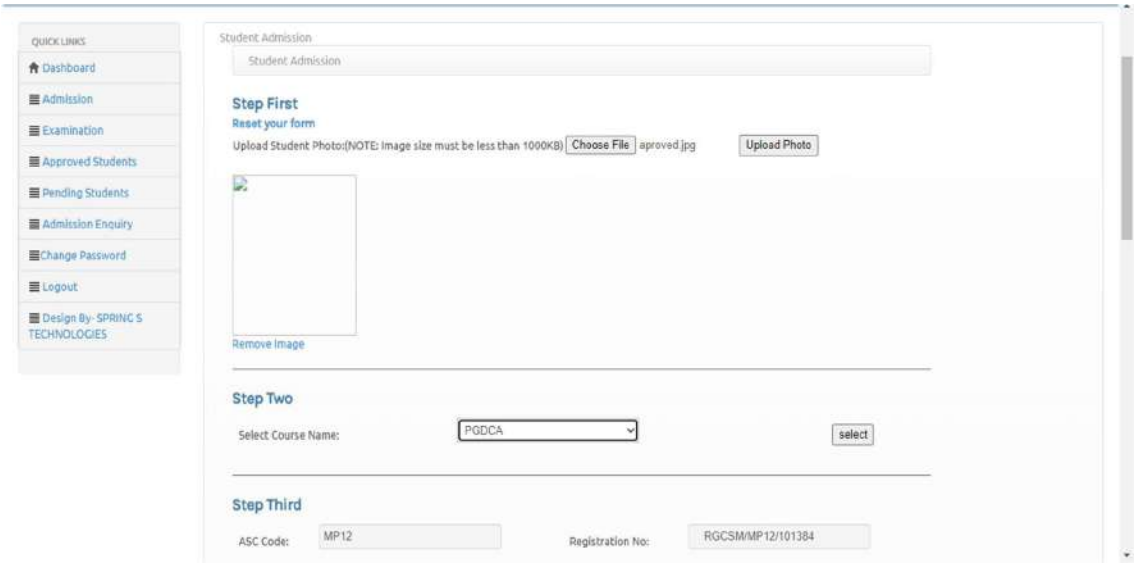
#	Student Registration	Roll Number	ASC Centre Code	Course Name	Course Fees	Course Duration	Course ID	Joining Date	Student Name	Father Name	Status
1	RGCSM/JH04/101080	240397752	JH04	CERTIFICATE IN COMPUTER E -TYPING (ENGLISH)	2,400/-	6 MONTHS	CeT (English)	11/04/2023	PRAGYA AGRAWAL	NAND KISHOR AGRAWAL	pending
2	RGCSM/JH04/101296	240397968	JH04	CERTIFICATE IN SHORT HAND	5,200/-	6 MONTHS	SHORTHAND	15/04/2020	ANCHAL KUMARI	MANOJ KUMAR MAHTO	pending
3	RGCSM/JH04/101297	240397969	JH04	CERTIFICATE IN COMPUTER E -TYPING (ENGLISH)	2,400/-	6 MONTHS	CeT (English)	15/04/2020	ANCHAL KUMARI	MANOJ KUMAR MAHTO	pending

f. Approved Student

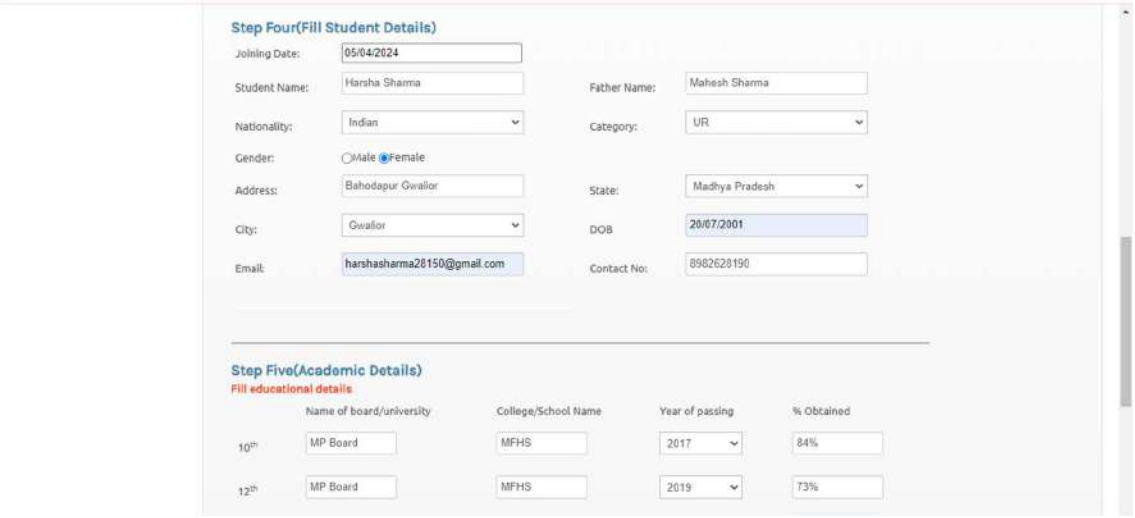
#	Student Registration	Roll Number	ASC Centre Code	Course Name	Course Fees	Course Duration	Course ID	Joining Date	Student Name	Father Name	Status
1	RGCSM/JH04/96215	210292887	JH04	CERTIFICATE IN COMPUTER E - TYPING (ENGLISH)	2,400/-	3 MONTHS	CeT (English)	06/08/2020	KUMARI SHOBHA RANI	BARHAN MAHTO	approved
2	RGCSM/JH04/96216	210292742	JH04	CERTIFICATE IN COMPUTER E- TYPING (HINDI)	2,400/-	3 MONTHS	CeT (Hindi)	12/08/2020	KUMARI SHOBHA RANI	BARHAN MAHTO	approved
3	RGCSM/JH04/96451	210693123	JH04	POST GRADUATE DIPLOMA COMPUTER APPLICATION	10,500/-	12 MONTHS	PGDCA	09/02/2015	LAXMI SHARMA	DHARMANATH SHARMA	approved
4	RGCSM/JH04/96455	210693127	JH04	POST GRADUATE DIPLOMA COMPUTER APPLICATION	10,500/-	12 MONTHS	PGDCA	05/02/2015	UMESH KUMAR	GYANI RAM DANGI	approved
5	RGCSM/JH04/96660	210793332	JH04	POST GRADUATE DIPLOMA COMPUTER APPLICATION	10,500/-	12 MONTHS	PGDCA	10/04/2019	ABHAY KUMAR	KRISHNA KUMAR NAYAK	approved
6	RGCSM/JH04/96801	210893473	JH04	CERTIFICATE IN COMPUTER E -	2,400/-	3 MONTHS	CeT (English)	10/03/2021	KAMLESH SAW	Late SURESH SAW	approved

g. Result

h. Admission form



i. Admission form details



Chapter 7
Conclusion

Chapter 7. Conclusion

Finally, the redesign of the ASC module on the Rajiv Gandhi Computer Saksharata Mission website is an important step in the direction of advancing digital literacy and improving centre administrative effectiveness. The project intends to promote efficacy and transparency by concentrating on reorganizing and streamlining ASC processes, thereby aiding in the organization's overarching goal.

Administrators of institute centres may now access vital information in real time, such as exam schedules, admission statistics, and student status updates, thanks to the installation of an intelligent dashboard. By centralizing decision-making for admissions, this centre ensures more efficient operations and better responsiveness to the demands of students.

Administrators and students will also find the ASC module interface to be more user-friendly thanks to enhancements like better management of student inquiries, approvals, and admissions. In keeping with best practices for data management and security, the implementation of a secure password management system guarantees the privacy and security of sensitive data.

By means of these enhancements, the project not only meets the pressing needs of institute centres but also progresses the main objective of promoting digital literacy. The initiative creates an atmosphere that is more favourable for learning and development by offering efficient tools and methods for handling student interaction and data.

The comprehensive analysis carried out during the project highlights the dedication to quality and continual progress. It focuses on topics like student credential administration, examination management, and admissions procedures. This all-encompassing strategy guarantees that the ASC module satisfies the changing requirements of institute centres and favourably advances the goals of the mission.

In the long run, the project's results and learnings are important tools for shaping programs and policies that will promote digital literacy and educational empowerment in the future. The project report offers a path for maintaining and increasing the impact of the Rajiv Gandhi Computer Saksharata Mission's attempts to establish a literate society empowered by technology by outlining the project's methodology, outcomes, and wider repercussions.

Future Scope: The future holds immense potential for further advancements in the ASC module and its integration within the Rajiv Gandhi Computer Saksharata Mission. Advanced analytics and machine learning algorithms could offer predictive insights, aiding administrators in proactive decision-making. Integration of blockchain technology could bolster data security and transparency, instilling greater trust

in the system. Expanding the module to include features for student engagement, such as virtual classrooms and personalized learning pathways, could create a more interactive and tailored educational experience. Collaboration with governmental agencies, educational institutions, and technology firms could extend the reach of the mission, fostering continuous innovation in digital literacy initiatives. In summary, by embracing emerging technologies and fostering collaborative partnerships, we can continue to empower individuals and communities with the digital skills essential for success in the 21st century.

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https://www.rgcsm.org

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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	01/01/2024 -15/01/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	**GRAPHIC DESGNING**				
OVERALL GRADE (Any one)	**EXCELLENT**				
Name of Industry Mentor	**MR. VIKALP SHARMA**				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	19/1/24	Name of Faculty Mentor	Dr. Anshu chaturvedi	Sign	

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRINGS TECHNOLOGIES		Date/Duration	16/01/2024 -1/02/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	HTML, CSS, and JSON work.				
OVERALL GRADE (Any one)	EXCELLENT				
Name of Industry Mentor	MR. VIKALP SHARMA				
Signature of Industry Mentor	SPRINGS TECHNOLOGIES PARTNER				

Receiving Date	6/2/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	01/02/2024 -15/02/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	**Engaged in the comprehensive development of a website using HTML, CSS, and JavaScript, coupled with the creation of social media content to enhance online visibility.**				
OVERALL GRADE (Any one)	**EXCELLENT**				
Name of Industry Mentor	**MR. VIKALP SHARMA**				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	20/2/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	16/02/2024 -01/03/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Currently engaged in backend development for the model, ensuring optimal functionality and seamless integration. Focused on refining core features.				
OVERALL GRADE (Any one)	EXCELLENT				
Name of Industry Mentor	MR. VIKALP SHARMA				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	19/3/24	**Name of Faculty Mentor**	Dr. Anshu Chaturvedi	**Sign**	

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	01/03/2024 -15/03/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Working on the backend development of model for refining functionality of model.				
OVERALL GRADE (Any one)	EXCELLENT				
Name of Industry Mentor	MR. VIKALP SHARMA				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	19/3/24	Name of Faculty Mentor	Dr Anshu Chaturvedi	Sign	

. FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	15/03/2024 -31/03/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	**Working on the functionality of the model .**				
OVERALL GRADE (Any one)	**EXCELLENT**				
Name of Industry Mentor	**MR. VIKALP SHARMA**				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	3/4/24	**Name of Faculty Mentor**	Dr. Anshu Chaturvedi	**Sign**	

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	HARSHA SHARMA		Department	MCA	
Industry/Organization	SPRING S TECHNOLOGIES		Date/Duration	01/04/2024 -15/04/2024	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Working On the integration of the Module				
OVERALL GRADE (Any one)	EXCELLENT				
Name of Industry Mentor	MR. VIKALP SHARMA				
Signature of Industry Mentor	SPRING S TECHNOLOGIES PARTNER				

Receiving Date	15/4/24	Name of Faculty Mentor	Dr. Anshu Chaturvedi	Sign	