

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Project Report

on

Praedico Global Research Website

Submitted by:

Sanjay Kushwah

0901CA201055

Mentor:

Pushkar Goyal, Full Stack Developer & PGR Pvt. Ltd.

Dr. Parul Saxena, Assistant Professor & MITS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

JAN-MAY 2022

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

MASTER OF COMPUTER APPLICATION

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

Sanjay Kushwah

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Submitted to:

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JAN-MAY 2022



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Ref.: PGR-2022/IT/536

Date: 11-May-2022

To whom so ever it may concern

This is to certify that **Mr./Mrs./Miss. SANJAY KUSHWAH** student of MCA at MITS, Gwalior, has completed Project Training program as an online/offline trainee at our organization **PRAEDICO GLOBAL RESEARCH PVT. LTD.** Him/Her training details are:

Period- **10 JANUARY 2022 to 10 MAY 2022**

Technology- **MERN – Full Stack**

Project- **WEBSITE – PRAEDICO GLOBAL RESEARCH (Admin Module)**

All of us at Praedico Global Research Pvt. Ltd. are pleased to have him/her in our team. This Training program includes training, orientation and focuses primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands on application of the knowledge he/she learned.

We take this opportunity to wish him/her a long, happy and successful career.

For

Authorized Signatory

Praedico Global Research Pvt. Ltd.



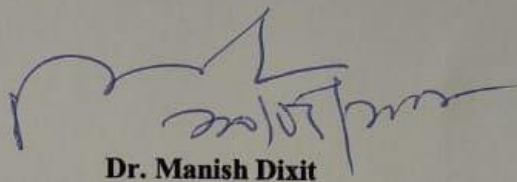
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CERTIFICATE

This is certified that **SANJAY KUSHWAH**(0901CA201055) has submitted the project report titled **Praedico Global Research Website** under the mentorship of **Pushkar Goyal**, in partial fulfilment of the requirement for the award of degree of Master of Computer Application of Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Parul Saxena
30/5/22

Dr. Parul Saxena
Faculty Coordinator
Assistant Professor
Computer Science and Engineering



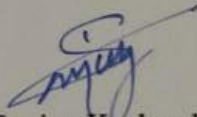
Dr. Manish Dixit
Professor and Head,
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Department of CSE
M.I.T.S. Gwalior

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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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 of 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 **Pushkar Goyal**, Praedico Global Research Pvt. Ltd

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


Sanjay Kushwah
0901CA201055
2nd Year

Master of Computer Application,
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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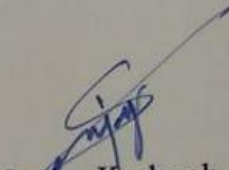
ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary project .I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

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.

Thank you for being an amazing mentor. You're great in every way. You inspire me to work hard and dream big. I'm truly thankful to have a genius mentor like you. It's honorable for me to be under your supervision. I learned a lot from you.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Parul Saxena**, Assistant Professor, Department of Computer science and Engineering, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.


Sanjay Kushwah
0901CA201055
2nd Year

Master of Computer Application,
Computer Science and Engineering

ABSTRACT

It is a Website which is basically focused on our clients. The purpose of this project is to create an interactive online web portal. The objective of this project is to provide online products, Services and better job opportunity all in one place. The main objective of Praedico Global Research Website is to computerize the whole system.

This system has been developed for Clients and Specially those type of users who wants enhance their knowledge in the field of Stock marketing they can use services of this Website.

This project has two major module Admin module and User module. In admin module, there are products, jobs, gallery. In this project, I have done the Admin module as Instructor. In this module, Instructor adds the Product which will show in the Home page and adds jobs which will show in the user page where they can apply for it. And also adds Gallery which will show in user page where they can download the images. Course must be technical or non-technical, course contain multiple units where all units have their separate assignment. All these are maintained by Instructor.

In this project, we use very popular technology to develop it. For the frontend, we use Reactjs that is very popular this time in the web development field. For the backend, we use Nodejs that is the popular general-purpose scripting language that is especially suited to web development. For the database, we use MongoDB. This project is feasible for all types of feasibility like technically, behaviorally, and economically. Because the technology we used for this project is very popular, most people know about it and the project operation is very simple so that everyone can easily access it and understand the functionality.

Nowadays, many online platforms provide these types of facilities separately, but Praedico Global Research will provide all these facilities in one place. Which will help the clients to access it online, having multiple facilities. which includes multiple products, services, job opportunities at one place.

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CHAPTER 1

Chapter :1Introduction

1.1About Project

This project is developed for Praedico Global Research Pvt. Ltd. It is the website which will provide Jobs, internships and campus placement opportunities. This Website will help the users to Know about various Products and Services which have been provided by the Praedico Global Research Pvt. Ltd. A user can also view the gallery where he can see various photos of seminars and workshops which have been organized by the Praedico.

It also provides better Job opportunities on the basis of the eligibility criteria of the users and the main thing is that the users can apply not only on technical but also on Management and HR jobs.

Scope:-

This project will enable the user to know more about the Praedico Global Research Pvt. Ltd. by viewing various products, images and services. It will become more beneficial for users in future for getting internship and Jobs. This system is developed in order to apply the jobs which take more time, if done manually

Objectives: -

The main objective of this website is that a user can know about the company all at one place.

Advantages:-

1. Provide different category jobs.
2. Users can see different products.
3. Online accessibility so any one can easily access it.
4. Provide all these facilities mentioned above at one place.

1.2 About Organization

Praedico Global Research Private Limited is a private company which is founded on 09 April, 2018. We deals in Stock Market Training, Stock Marketing Predictive Softwares, Robotic Stock Trading, Global Equity Research, Portfolio Designing, Financial Literacy and Stock market research using deep learning

Praedico Global Research Pvt. Ltd. is India's first "coordinated worldwide research cum preparing" company. They take a shot at the model of spreading financial literacy all over the globe and have their own exploration model for India and worldwide stock trades.

Praedico Global Research focuses on the use of artificial intelligence to forecast the trends in the stock markets across the globe. The company has achieved many successes within the limited period of time it has been in existence.

Forecasting of stock trend has been limited to how well a trader or broker can consider the market forces or the economic and company information available. The risk associated with the stock market, implies reasoning beyond human ability has to be employed. It is due to this reason that Praedico Global Research has been able to use Neural Networks which is a form of artificial intelligence to predict the stock market with the success rate of over 80%.

With Praedico Global Research, robust softwares are built to be sensitive and identify trend on the stock market and make a high probable prediction with at least 80% confidence level.

1.3 About Technologies:-

Software Requirements

Basic software requirements to Implement this Project –

Frontend - React

For frontend design we have decided to use a React.js is an open-source JavaScript library that is used for building user interfaces specifically for single-page applications. It's used for handling the view layer for web and mobile apps. React also allows us to create reusable UI components

Themes

This is done through installation and switching between themes by allowing users to change functionalities that include HTML and CSS. Designers can acquire free and/or premium themes purchased by marketplaces or private developers. Otherwise, users can develop and build their customized themes to get advanced features depending on their needs.

Backend –NODE JS

For backend we have decided to use Node.JS is primarily used for non-blocking, event-driven servers, due to its single-threaded nature. It's used for traditional web sites and back-end API services, but was designed with real-time, push-based architectures in mind.

Node.js is similar in design to, and influenced by, systems like Ruby's Event Machine and Python's Twisted. Node.js takes the event model a bit further. It presents an event loop as a runtime construct instead of as a library. In other systems, there is always a blocking call to start the event-loop. In Node.js, there is no such start-the-event-loop call. Node.js simply enters the event loop after executing the input script. Node.js exits the event loop when there are no more callbacks to perform. This behavior is like browser JavaScript — the event loop is hidden from the user.

Database –MongoDB

MongoDB is a non-relational document database that provides support forJSON-like storage. The MongoDB database has a flexible data model that enables you to store unstructured data, and it provides full indexing support, and replication with rich and intuitive APIs.

MongoDB is a document database used to build highly available and scalable internet applications. With its flexible schema approach, it's popular with development teams using agile methodologies.

Basic software requirements to run this project:

1. Any web browser withHTML5.
2. Any windows based operating system.

Hardware Requirements

Basic hardware requirements to Implement this Project

1. Disk Space:1GB+
2. Web Server: Apache orNginx
3. Database: MongoDB version 4.4.1
4. RAM:512MB+
5. Processor:1.0GHz+

CHAPTER 2

Chapter :2 System Analysis

2.1 Requirement Identification

2.1.1 Study of Existing System-

Initially, we collected all the information and the working of the current system. We noted the limitation of that system, which motivated us to develop new system. With the help of these information, we got basic ideas about the existing system. we tried to implement those ideas to develop the proposed system.

The most important thing is to study system thoroughly. Here we are studying both existing system and proposed system so that advantages & disadvantages of both the systems can be understood.

2.1.2 Problems and Weakness of ExistingSystem-

In our existing system there is Poor Error Handling Method the framework has a bad error handling method and it is not more responsive for the users so in this project we have overcome it.

In our existing system there were no properly designed the careers section for the users like there was no starting or ending date for applying the jobs so that user could know about the jobs and there was no salary mentioned in the job description that's why we were receiving less number of applications for the job.

2.1.3 Proposed System's Requirements

In the proposed system there has a major module, name as Online Jobs of Praedico Global Research Pvt. Ltd.

This module includes the online jobs uploading on the website. In this module, admin can add the job of technical and management side with its proper job description. He will also define the starting and ending date for applying for the job. The admin also defines the minimum and maximum salary for the applicants so that applicants should have a full knowledge about the job. The applicants will undergo with online test after applying so that we could filter the applicants but it will be implemented in future. The job has its own unique job id and job title and the user after applying on the job can see his applied jobs in jobs applied section.

To implement the proposed system, these are the basic needs, which are required to develop the system:

Job category:

Job category is the basic need because it will help the user to identify in which category job he/she wants to apply.

Salary:

Salary is required to show in website which can help the user to know about the package of the job.

Job description:

It is required because without knowing the job description user will not be able to know the description of the job.

2.2 Feasibility Study

Initially analysis aims to uncover insurmountable obstacles that would render a feasibility study useless. If no major roadblocks are uncovered during this pre-screen, a more intensive feasibility study will be conducted. It's important to outline the scope of the project so that you can determine the scope of the feasibility study.

The following feasibility study was undertaken for the proposed system:

2.2.1 Technical Feasibility:

- 1) In this module , it has technical resources to convert the idea into a fully functional and profitable working system.
- 2) In Admin module, it identifies potential challenges and uncovers ways to overcome them.
- 3) We will develop this module in stepwise and if we face any issue , we will upgrade module

2.2.2 Economic Feasibility:

This module(Admin)is financially feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies, there is nominal expenditure and economic feasibility for certain.

As we know that feasibility is essential to this project. Under this we can target our future profit and company evaluation. We must select technology which is available at minimum cost.

At the end , We assumed that profit of organization is depend on proposed system .it starting we will cover up initial cost . we can say that this module is economic feasible.

2.2.3 Behavioral Feasibility:

We will complete this module , according to the requirement of client .we can say that the system is operationally feasible. The proposed system will be beneficial only if it can be turned into a system which will meet the requirements of the project when it is developed and installed, and there is sufficient support from the client.

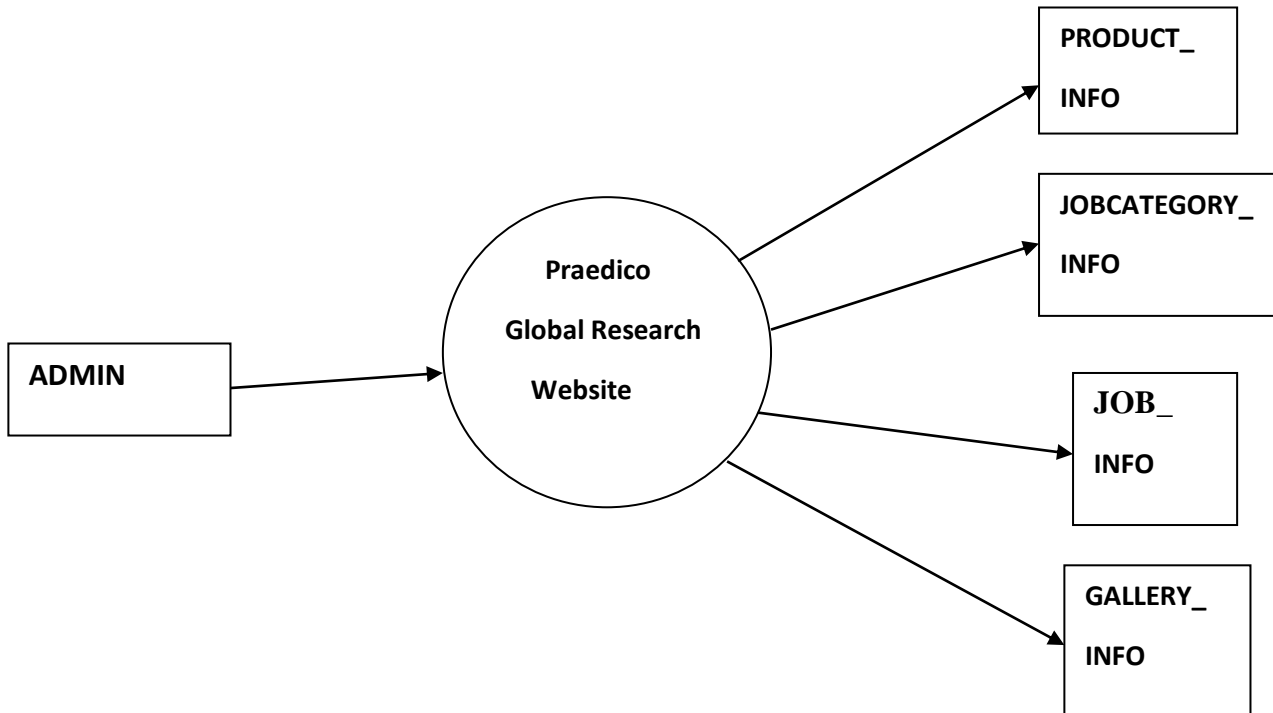
Earlier, we have discussed about proposed projects will be beneficial for the client then only. When they will test the operational feasibility of this module.

If client implement this module in future, so it is beneficial for the client's business purpose, because most of the users want all facilities in single platform, like jobs, product etc which is available at this module.

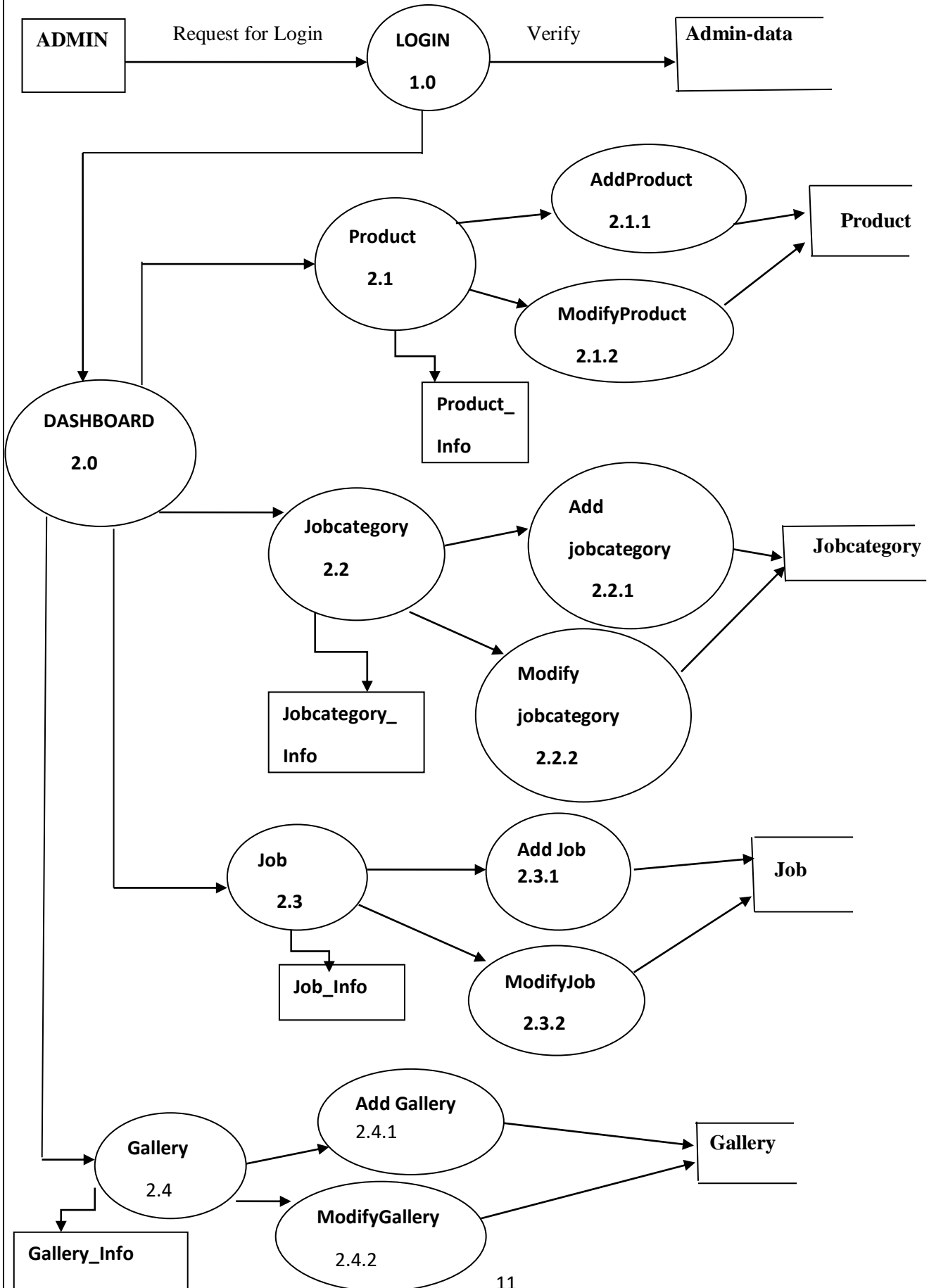
2.3 Data Flow Diagram

A data flow diagram is a graphical view of how data is processed in a system in terms of input and output.

2.3.1 Context Level Diagram (0 level DFD)



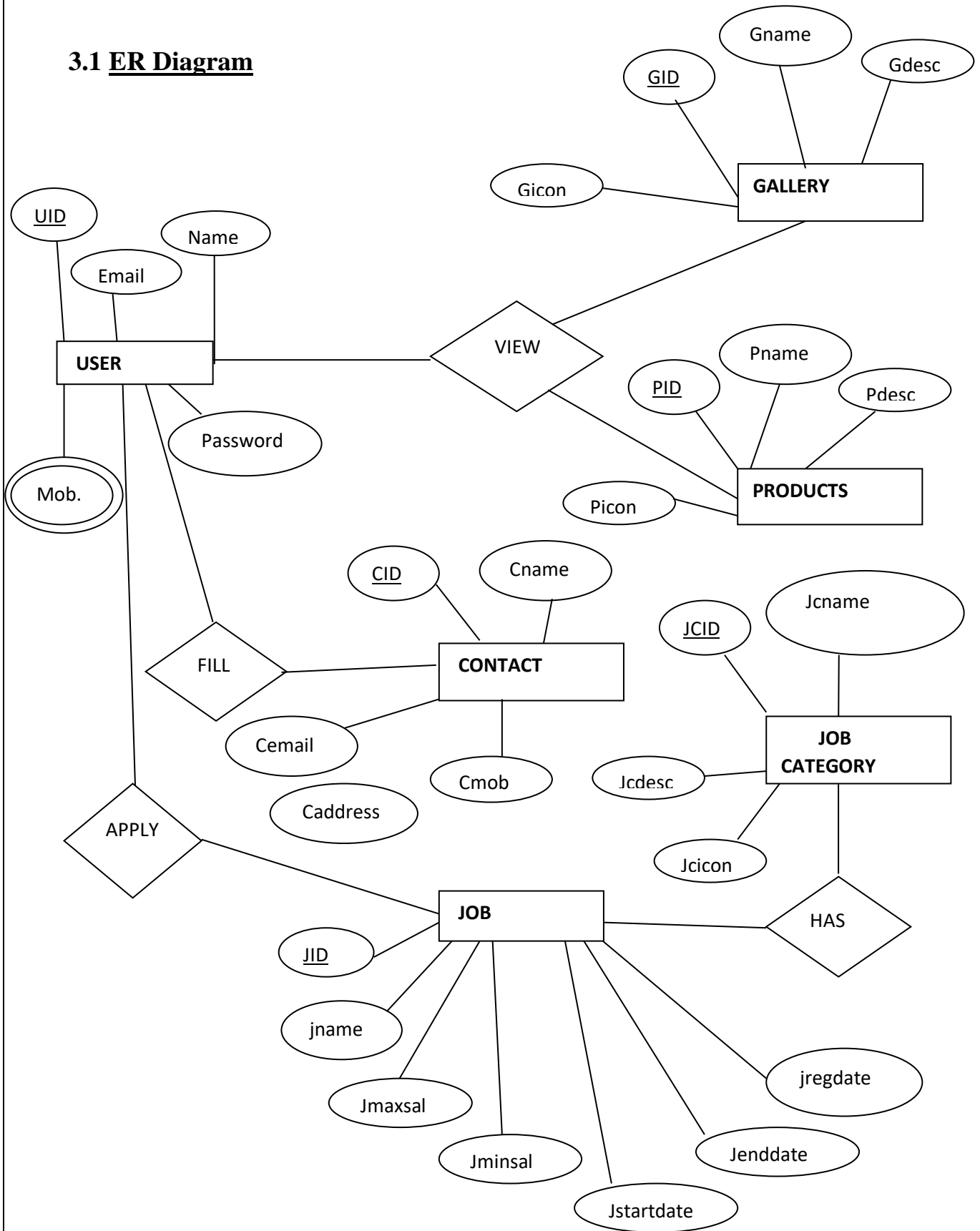
2.3.2 Admin Side DFD



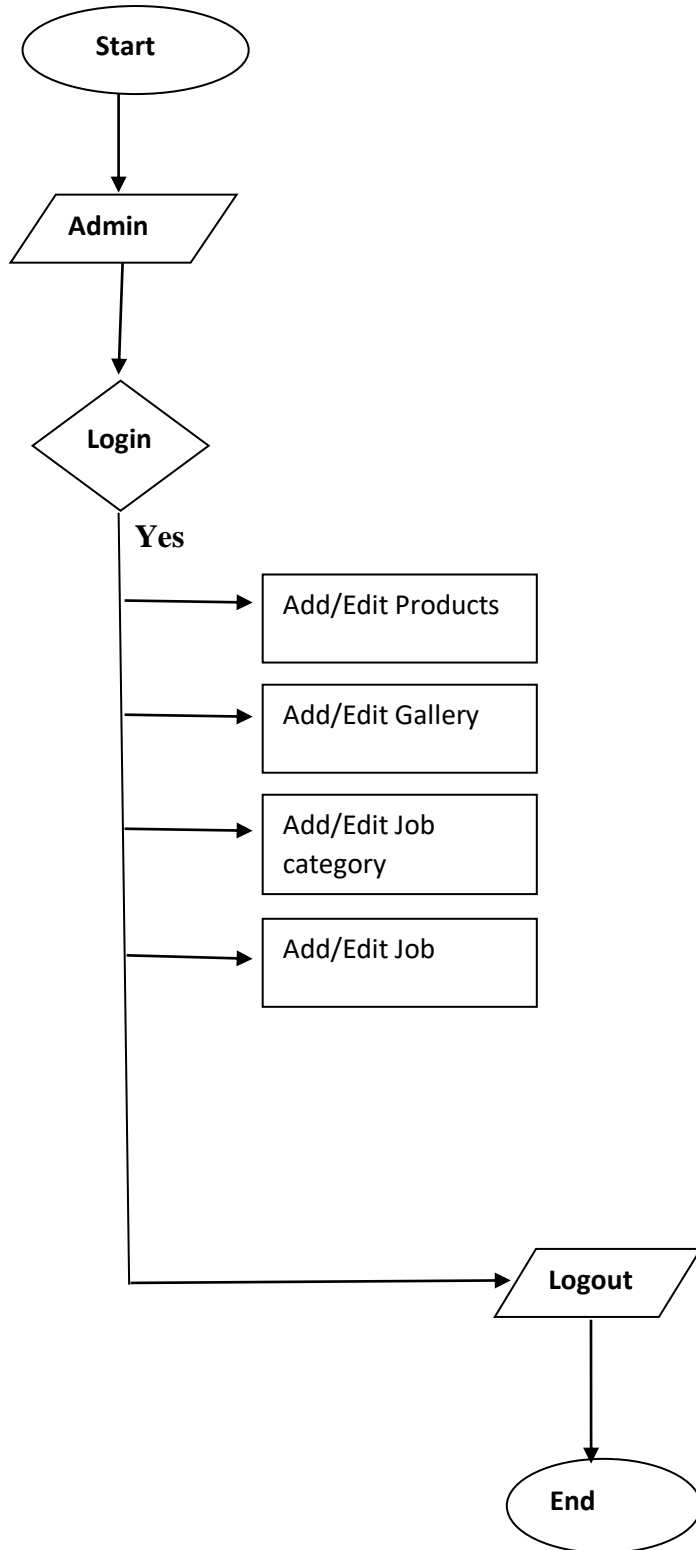
CHAPTER 3

Chapter :3 System Design

3.1 ER Diagram



3.2 System Flow Chart



3.3 Database Design

Table Name: User

#	Name	Data-type	Key
1	User_ID	number	Primary
2	User_name	string	-
3	User_email	string	-
4	User_password	string	-
5	User_mobile	number	-

Table Name: Jobcategory

#	Name	Data-type	Key
1	Jobcategory_id	number	Primary
2	Jobcategory_name	string	-
3	Jobcategory_desc	string	-
4	Jobcategory_icon	string	-

Table Name: Job

#	Name	Data-type	Key
1	Job_ID	number	Primary
2	Jobcategory_Id	number	Foreign
3	Job_name	string	-
4	Job_desc	string	-
5	Job_maxsalary	number	-
6	Job_minsalary	number	-
7	Job_startdate	date	-
8	Job_enddate	date	-
9	Job_regdate	date	-

Table name: Gallery

#	Name	Data-type	Key
1	Gallery_ID	number	Primary
2	Gallery_name	string	-
3	Gallery_desc	string	-
4	Gallery_icon	string	-

Table Name: Product

#	Name	Data-type	Key
1	Product_Id	number	Primary
2	Product_name	string	-
3	Product_desc	string	-
4	Product_icon	string	-

Table Name: Contact

#	Name	Data-type	Key
1	Contact_Id	number	Primary
2	Contact_name	string	-
3	Contact_email	string	-
4	Contact_mobile	string	-
5	Contact_address	string	-

CHAPTER 4

Chapter:4Testing

4.1Testing

It depends on the process and the associated stakeholders of the project. In the IT industry, large companies have a team with responsibilities to evaluate the developed software in context of the given requirements. In this module (admin) , I have performed different type of testing like unit ,integration, validation .

4.1.1 Unit Testing:

In this testing ,I did manually testing in my module (admin) , I tested login page of my module for unit testing .because in this testing, program is tested individually using live record, to see whether that program produce satisfied output as the company.InthistestingIcheckedthe individual modulesotheprojectwillbe working properly or not.

4.1.2 Integration Testing:

In this testing , I have performed testing with help of admin and user module , system consists different modules, where in each module can arise problems during the testing. Integration testing should be developed from the system specification. Firstly, a minimum configuration must be integrated and then tested. In my project we have done integration testing. In my project i can integrate admin and user module and then we have tested each module with each other, like admin When a admin visit on page , howthe admin willreactwhentheysaw page , so eachmoduleistestedbymeand my team partner.

4.1.3 Validation Testing:

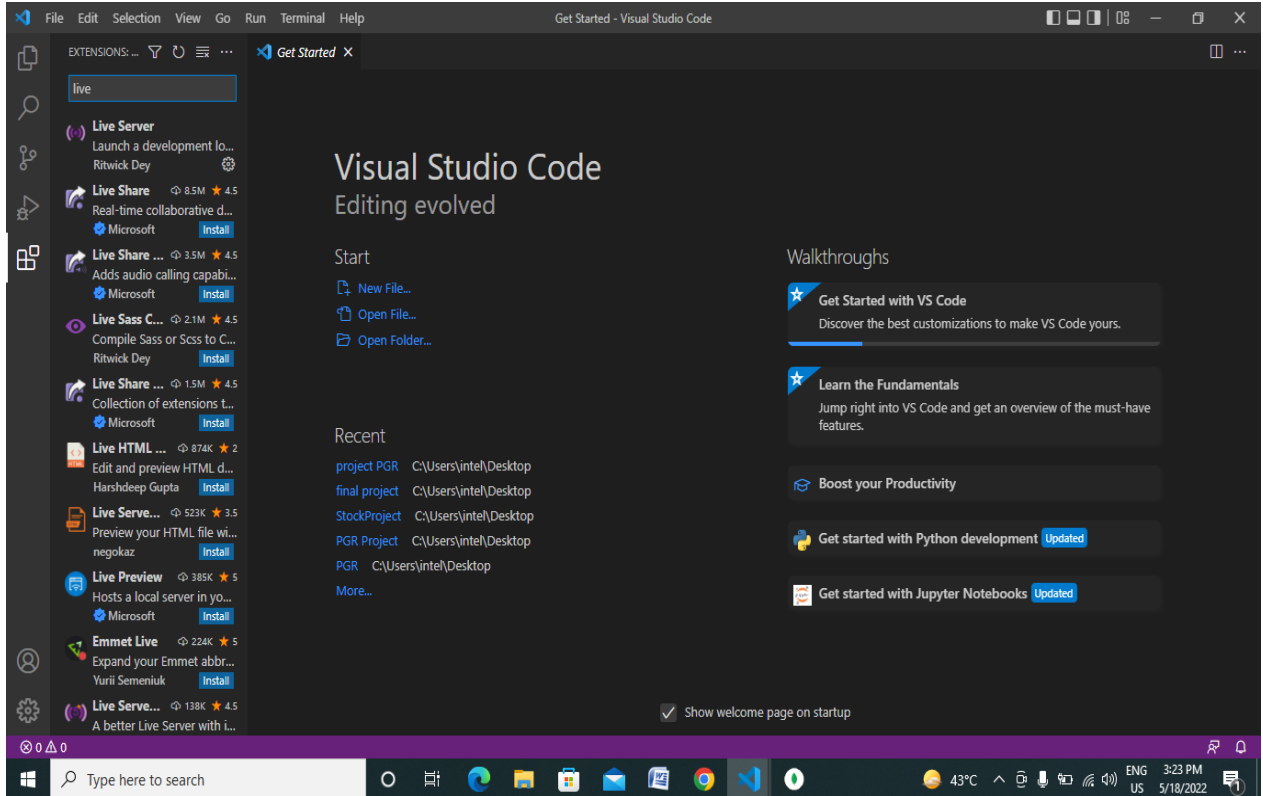
In this testing, Validation is determining if the system complies with the requirements and performs functions for which it is intended and meets the organization's goals and user needs. It provides final assurance that application meets all behavioral and performance requirements.

CHAPTER 5

Chapter:5 Implementation

Step: 1 Getting a Text Editor:

I use visual studio code as the text editor because it has several plugins and built- in terminal features.



Step: 2 Installing Node in the Local Machine:

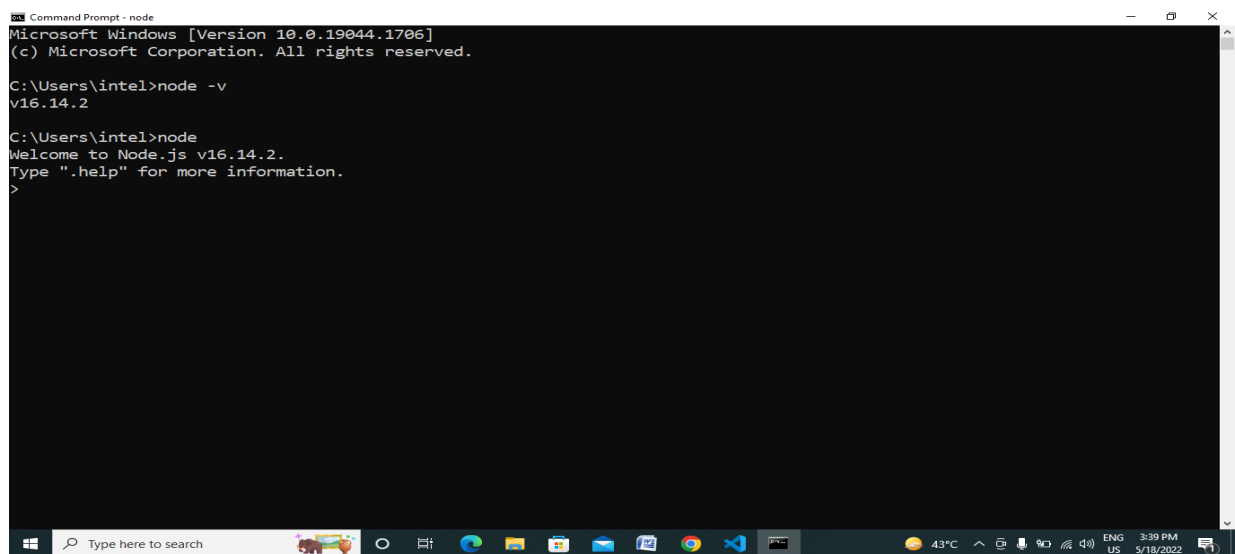


1. LTS version is recommended for the beginner (fewer bugs).
2. And install the package and check that node is working all good.
3. To check the node js is installed open the command line and follow the below command.

Command

```
C:\User\abc>node -v
```

Output



```
Command Prompt - node
Microsoft Windows [Version 10.0.19044.1706]
(c) Microsoft Corporation. All rights reserved.

C:\Users\intel>node -v
v16.14.2

C:\Users\intel>node
Welcome to Node.js v16.14.2.
Type ".help" for more information.
>
```

Step:3Installing Express and React:

1. As we First installed node js .A Software Registry is installed along with Node js. This Registry is known as npm Node Package Manager. That includes various open-source Libraries. It also contains express js.
2. Use the Command in the Terminal For installing express js package

Command:-

```
C:\User\abc\Project_folder>npm install express --save
```

Express is installed and ready to use.

Use the following command to create a react app with all dependencies and support file.

Command:-

```
C:\User\abc\Project_folder>npx create-react-app folder_name
```

This command will download some dependencies and will create and run a default React app.



To get started, edit `src/App.js` and save to reload.

Step: 4 Installing Our Database Locally (MongoDB):



1. After download click on the installer and after installation is over.
2. Open a command prompt and try the following command to check if the installation was successful command.

Command

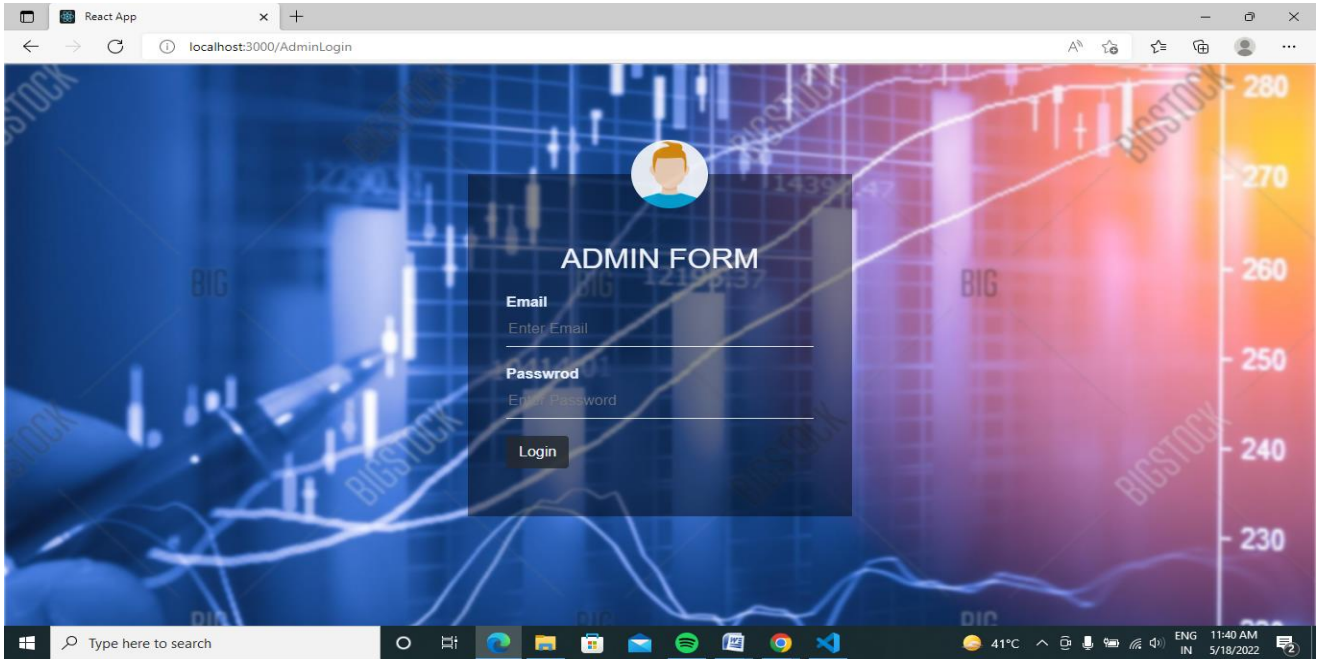
C:\Program Files\MongoDB\Server\5.0\bin\mongo.exe

Here the setup and installation of our MERN Stack are completed.

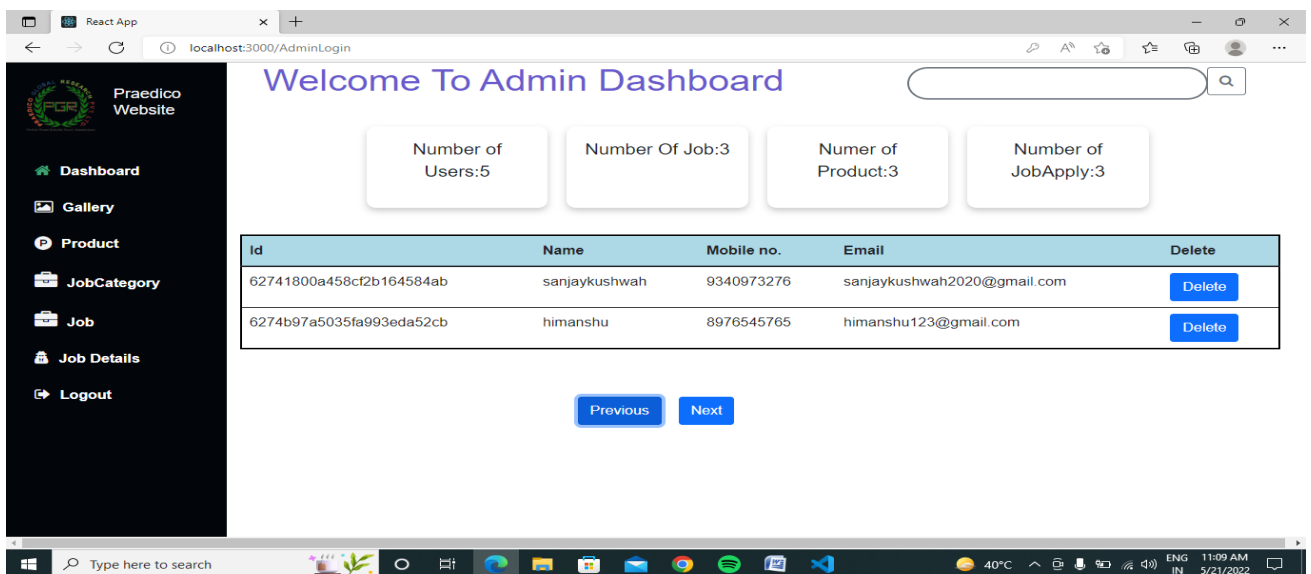
CHAPTER 6

Chapter:6 Sample Forms And Reports

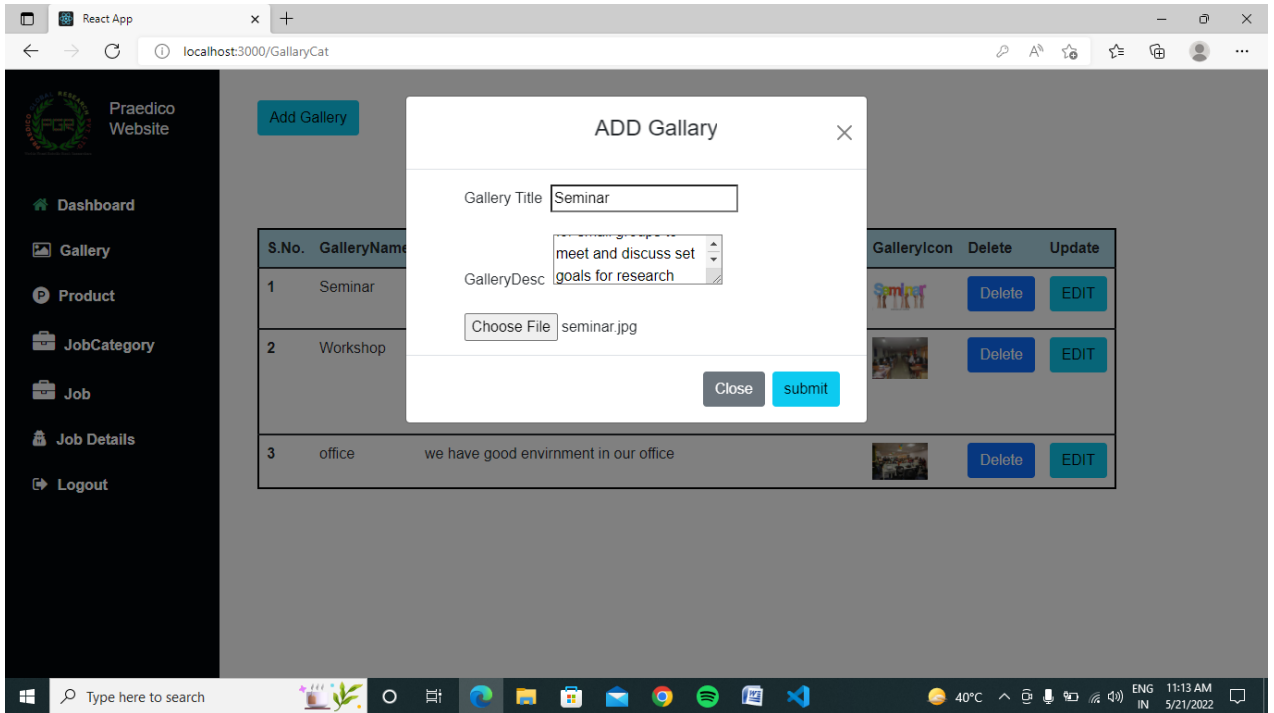
1.Admin Login



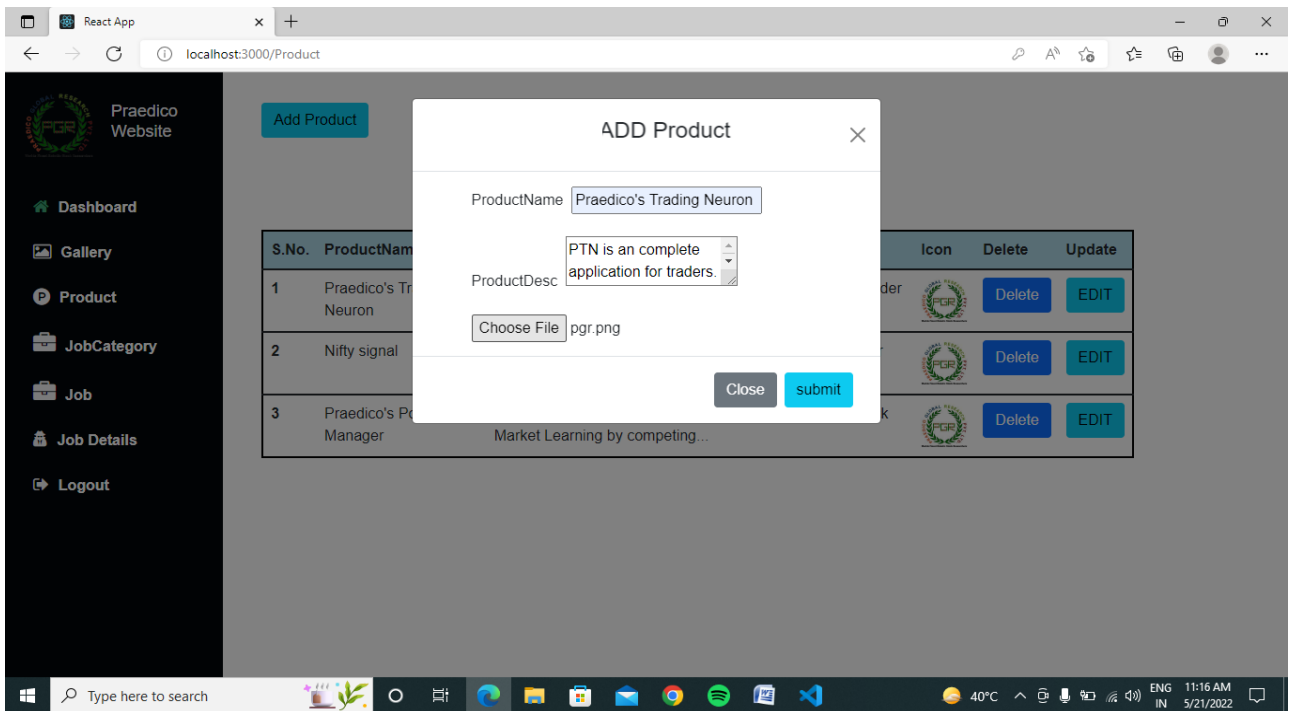
2. Dashboard



3. Gallery



4. Product



5. Jobcategory

The screenshot shows a web application interface for managing job categories. A modal window titled "ADD Job Category" is open, allowing the user to add a new category. The modal contains the following fields:

- JobCategory:
- JobDesc:
- Choose File:

The modal also features "Close" and "submit" buttons. In the background, a table displays existing job categories:

S.No.	JobTitle	JobIcon	Delete	Update
1	Human Resource		Delete	EDIT
2	Data science		Delete	EDIT
3	Full Stack Developer		Delete	EDIT

6. Job

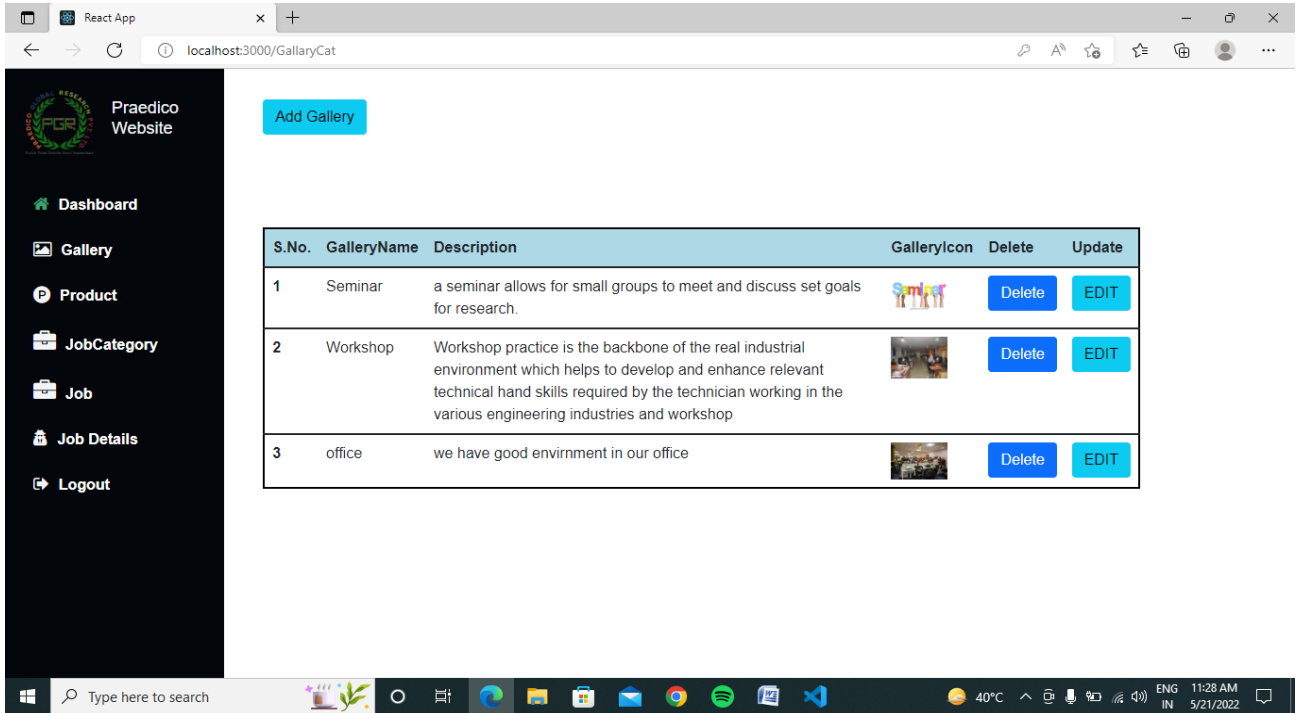
The screenshot shows a web application interface for managing jobs. A modal window titled "ADD JC" is open, allowing the user to add a new job. The modal contains the following fields:

- Select Jobcategory:
- JobTitle:
- Description:
- MinSalary:
- MaxSalary:
- Startdate:
- Enddate:

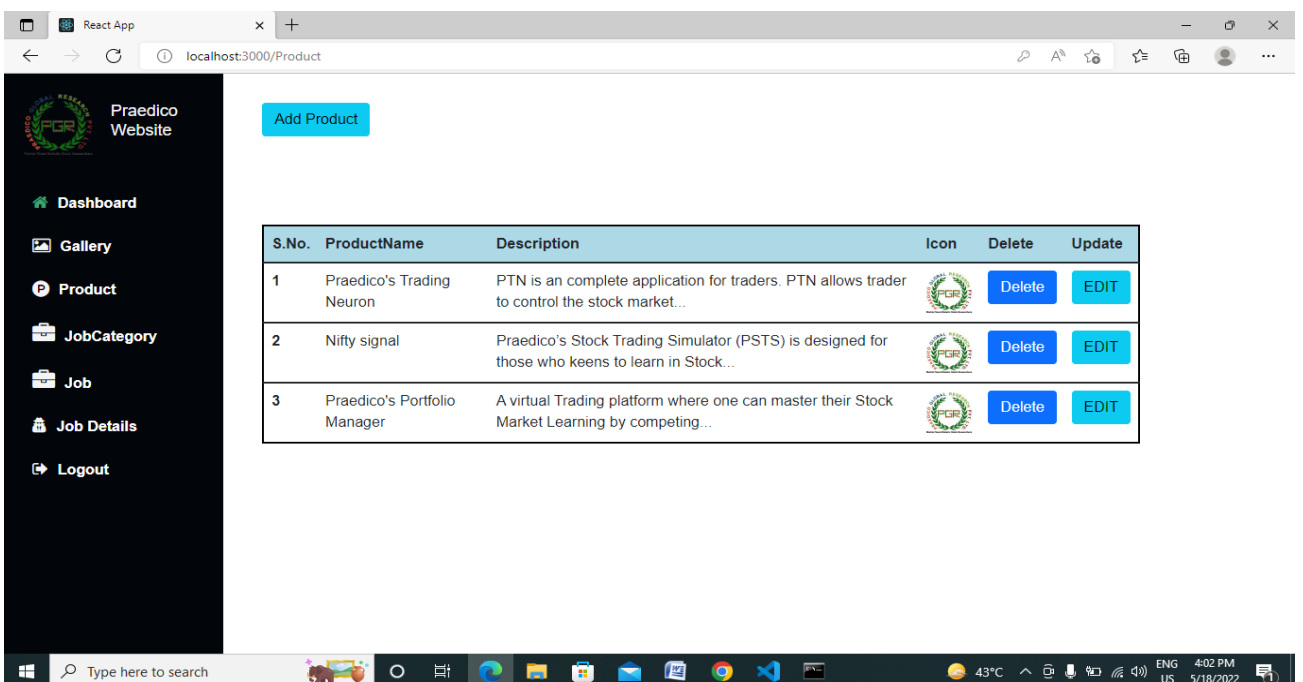
The modal also features "Close" and "Submit" buttons. In the background, a table displays existing jobs:

S.No.	JobName	Startdate	Enddate	Regdate	Delete	Update
1	Backend	2022	22/05/2022	18-5-2022	Delete	EDIT
2	data analyst	2022	28/05/2022	18-5-2022	Delete	EDIT

1. Gallery



2. Product



3.JobCategory

JobCategory

S.No.	JobTitle	Description	JobIcon	Delete	Update
1	Human Resource	HR will give you theoretical understanding about fundamentals of HR and core HR practical training will give you in depth knowledge of the actual work done in the corporate HR department.		Delete	EDIT
2	Data science	Data science is the domain of study that deals with vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and make business decisions. Data science uses complex machine learning algorithms to build predictive models.		Delete	EDIT
3	Full Stack Developer	A Full Stack Developer is someone who works with the Back End — or server side — of the application as well as the Front End, or client side. Full Stack Developers have to have some skills in a wide variety of coding niches, from databases to graphic design and UI/UX management in order to do their job well.		Delete	EDIT

4.Job

ADD Jobs

S.No.	JobName	Description	MinSalary	Maxsalary	Startdate	Enddate	Regdate	Delete	Update
1	Backend	*Bachelor's degree in computer programming, computer science, or a related field. *Fluency or understanding of specific languages, such as Java, PHP, or Python, and operating systems may be required. *Strong problem solving and verbal and written communication skills.	800000	1100000	16/05/2022	22/05/2022	18-5-2022	Delete	EDIT
2	data analyst	Bachelor's Degree in Mathematics or Computer Engineering 2+ years' Data mining experience 4+ years in a data analyst role Ability to collaborate effectively and work as part of a team Strong attention to detail	600000	900000	22/05/2022	28/05/2022	18-5-2022	Delete	EDIT

Previous Next

5. Job Details

The screenshot shows a web browser window with the URL `localhost:3000/JobApply`. The page title is "Job Details". On the left, there is a dark sidebar with the "Praedico Website" logo and a list of navigation items: Dashboard, Gallery, Product, JobCategory, Job, Job Details, and Logout. The main content area features a table with the following data:

UserName	Job Tittle	Date	Resume
vasu	Frontend	4-5-2022	Download
sanjaykushwah	Backend	6-5-2022	Download
sanjaykushwah	data analyst	18-5-2022	Download

The Windows taskbar at the bottom shows the search bar, several application icons, and system tray information including 40°C, 11:38 AM, and 5/21/2022.

CHAPTER 7

Chapter:7 Conclusion

In this project we have made a system which is suitable for clients or users like we have made a separate section for services and products for clients who wants to see our services and if anyone is interested in our products/services which is available on our website then he/she can easily contact us through our contact us form and our team will contact him/her as soon as possible.

In today's world there are many persons who wants to enhance their career in IT industry or Management so We have made careers section in our website like if any user/applicant wants to apply in our ongoing jobs then he/she can easily apply for the jobs after getting logged in.

This project helped me in gaining valuable information and practical knowledge on several topics like designing web pages using React, VS-Code, Node, Mongo-DB. The entire system is secured and this project helped us to understand about the development phases of a project and software development life cycle. We learned how to test different features of a project and lot of things.

Future Work

We will work on to improve user interface, which will help to make this website more user friendly.

Here we will plan to attach the pricing cards and payment gateway, which will help the user to buy products from our Website i.e. all the facilities will available at the same place. Over the pricing cards user will get so many plans such as Portfolio Manager, Trading Neuron etc. With the help of payment gateway user can pay to purchase the products of his/her choice.

We will also add a basic test for all applicants who wants to join our company and on the behalf of that test, we will shortlist the applicants/candidates for the applied jobs.

We will also try to enhance the security of this project, so it can be prevented by hacking.

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