

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Web development

A final year internship report submitted in partial fulfilment of the requirement for the degree

of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

Mahendra singh kushwah

(0901CS193D05)

Internship Faculty Mentor:

Mahesh Parmar, Assistant Professor

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

Internship Certificate Received from Rakhchhit Software Pvt. Ltd. Satna M.P.



Rkhchhit Software Pvt. Ltd.

Birla Rd, near santoshi mata chowk, Bandhavgarh Colony,
Satna, Madhya Pradesh 485001



CERTIFICATE OF INTERNSHIP

this certificate is proudly presented to:

Mahendra Singh Kushwah

pursuing his b.tech 3rd/4th year has successfully complete summer internship at web development from
01/01/2022 to 15/05/2022 .

we found him sincere, hardworking, technically sound and result oriented.
she worked well as part of during his/her tenure
we take this opportunity to thank him and all the best for her future

YATHARTH TIWARI (CEO)

AVINASH MISHRA (MENTOR)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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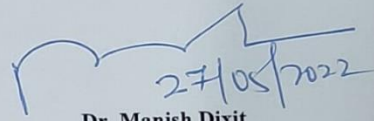
CERTIFICATE

This is certified that **Mahendra singh kushwah** (0901CS193D05) has submitted the Internship report titled **Internship in Web Development** of the work he has done under the mentorship of **Mahesh Parmar**, Assistant Professor in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



Asst. Prof. Mahesh Parmar

Faculty Mentor
Computer Science & Engineering



27/05/2022

Dr. Manish Dixit

Professor & Head
Computer Science & Engineering
Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

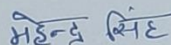
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

DECLARATION

I hereby declare that the work being presented in this Internship report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in CSE at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Mahesh Parmar, Assistant Professor**, Department of CSE.

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



Mahendra singh Kushwah
0901CS193D05
IV Year
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester internship 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/interdisciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. 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 internship. 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 am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Mahesh Parmar**, Assistant Professor, Department of Computer Science and Engineering, for his continued support and close mentoring throughout the internship. I am also very thankful to the faculty and staff of the department.

महेन्द्र सिंह

Mahendra singh Kushwah
0901CS193D05
IV Year
Computer Science and Engineering

ABSTRACT

My internship is on web development. The Web Development internship offers practical work experience and an introduction to creating and improving web-based system. This internship will involve challenging opportunities, real world projects, and regular interaction. I learn web technologies such as html, css, bootstrap, js, reactjs etc. I have worked on different task and challenges.

About the Organization:

Rkhchhit Software Services Pvt. Ltd. Is a privately held company, a team of ingenious and versatile software professionals. Rkhchhit software is experienced in managing the systems and workings of global enterprises. Company provide a wide range of services including software application development, mobile application development, web hosting, web development, e-commerce solutions, logo designing, graphic designing and digital marketing services across the country.

सार:

मेरी इंटरनशिप वेब डेवलपमेंट पर है। वेब डेवलपमेंट इंटरनशिप व्यावहारिक कार्य अनुभव और वेब-आधारित सिस्टम बनाने और सुधारने के लिए एक परिचय प्रदान करता है। इस इंटरनशिप में चुनौतीपूर्ण अवसर, वास्तविक दुनिया की परियोजनाएं और नियमित बातचीत शामिल होगी। मैं एचटीएमएल, सीएसएस, बूटस्ट्रेप, जेएस, रिएक्टज इत्यादि जैसी वेब तकनीकों को सीखता हूं। मैंने विभिन्न कार्यों और चुनौतियों पर काम किया है

संगठन के बारे में:

रखछित सॉफ्टवेयर सर्विसेज प्रा। लिमिटेड एक निजी तौर पर आयोजित कंपनी है, जो सरल और बहुमुखी सॉफ्टवेयर पेशेवरों की एक टीम है। Rkhchhit सॉफ्टवेयर को वैश्विक उद्यमों के सिस्टम और कामकाज के प्रबंधन में अनुभव है। कंपनी देश भर में सॉफ्टवेयर एप्लिकेशन डेवलपमेंट, मोबाइल एप्लिकेशन डेवलपमेंट, वेब होस्टिंग, वेब डेवलपमेंट, ई-कॉमर्स सॉल्यूशंस, लोगो डिजाइनिंग, ग्राफिक डिजाइनिंग और डिजिटल मार्केटिंग सेवाओं सहित सेवाओं की एक विस्तृत श्रृंखला प्रदान करती है।

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Chapter 1:

Introduction

1.1 Web Development

Web development refers to the building, creating, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

1.1.1 Frontend Development

Frontend Development: The part of a website that the user interacts directly is termed as front end. It is also referred to as the 'client side' of the application. For frontend Html, css, javaScript bootstrap etc technologies are used.

1.1.2 Backend Development

Backend Development refers Backend is the server side of a website. It is the part of the website that users cannot see and interact. It is the portion of software that does not come in direct contact with the users. It is used to store and arrange data. For backend php, java, python, NodeJs technologies are used.

1.2 Website

A **website** is a collection of many web pages, and web pages are digital files that are written using HTML (HyperText Markup Language).

1.2.1 Static website

A static website consists of a series of HTML files, each one representing a physical page of a website. On static sites, each page is a separate HTML file.

1.2.2 Dynamic website

A dynamic website uses server technologies (such as PHP) to dynamically build a webpage right when a user visits the page.

1.3 Webserver

To make your website available to every person in the world, it must be stored or hosted on a computer connected to the Internet round a clock. Such computers are known as a Web Server.

Chapter 2:

HTML

Html stands for hyper text markup language. Html was developed by Tim Berners-Lee in 1989 at cern laboratory. Html is used to create structure of web pages. It includes formatting tags and attributes. Html tags indicates how the web page presented in the browser

2.1 Html structure

```
<!DOCTYPE>  
<html>  
  <head>  
    <title>Web page title</title>  
  </head>  
  <body>  
    <p>In body section we write content of webpage</p>  
  </body>  
</html>
```

Chapter 3:

CSS

CSS stands for cascading style sheets. CSS is used to style the webpages. We can link css using external CSS file or we can add CSS using internal CSS and inline CSS.

3.1 CSS Selectors

In CSS we have mainly three types of selectors.

1. Id Selectors- it selects element using their id name.
2. Class Selectors- it selects element using their class name.
3. Element Selectors- it selects element using element name.
4. Pseudo Selectors- it selects elements based on their certain state.
5. Combinator Selectors- it selects elements based on certain combination.

```
<style>
P{
    Color:red;
    Font-size:20px;
}

.myclass{
Width:200px;
Height:200px;
Background-Color:black;
}

</style>
```

Chapter 4:

JavaScript

JavaScript is dynamic programming language. It is used to create dynamic web pages. By the help of JavaScript, we can create better user experience web pages. JS also used to add animation to web Pages. JavaScript codes are translated by the JavaScript translator.

We write JavaScript in script tag and we can also link external js file using link attribute in script tag

```
<script>  
Document.write("Hello JavaScript");  
</script>
```

For external JavaScript file

```
<script link=" myJsFile.js"></script>
```

Topics cover in JavaScript :-

1. Basic Js concepts => Basic Syntax, basic programming concepts in Js.
2. OOPs in Js.
3. DOM API => Document Object Model for accessing HTML elements as objects.
4. Events => what to do when a user interacts with the web application.
5. Fetch API.
6. Asynchronous Programming.
7. Functional Programming.

Chapter 5:

Bootstrap

Bootstrap is developed by Mark Otto and Jacob Thornton. Bootstrap is one of the most popular CSS Framework for developing responsive websites. Bootstrap is a free and open-source CSS framework. Bootstrap is used to create mobile friendly responsive website. We can create amazing websites for all sizes of screens easily and faster using Bootstrap.

For link CSS file we link-

```
<link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
```

For JS file we link-

```
<script src="js/bootstrap.min.js"></script>
```

Topics cover in Bootstrap-

1. Bootstrap introduction.
2. Bootstrap container, flex boxes.
3. Bootstrap columns and rows.
4. Bootstrap classes.
5. Bootstrap components navbar, card, canvas, carousel, forms, buttons etc.

Chapter 6:

ReactJs

React is a JavaScript library created by Facebook (Current name Meta). React is used to create user interface for websites. We can create single page web application using react. React is a tool for building UI components. React also allows us to create reusable UI components.

Components are independent and reusable bits of code. They are like JavaScript function but work in isolation and return Html code. ReactJs finds out what changes have been made and changes only what needs to be changed.

Topics covered in React :-

1. UI component.
2. Reactive states.
3. React hooks.
4. React -router.
5. React -Redux.
6. React-Bootstrap.

Chapter 7:

Node.Js and Mongo DB

1.3 Node.JS

Node.js is free and open source server environment. It is a backend language. Node.JS uses JavaScript on the server. Node.JS runs on windows, linux etc.

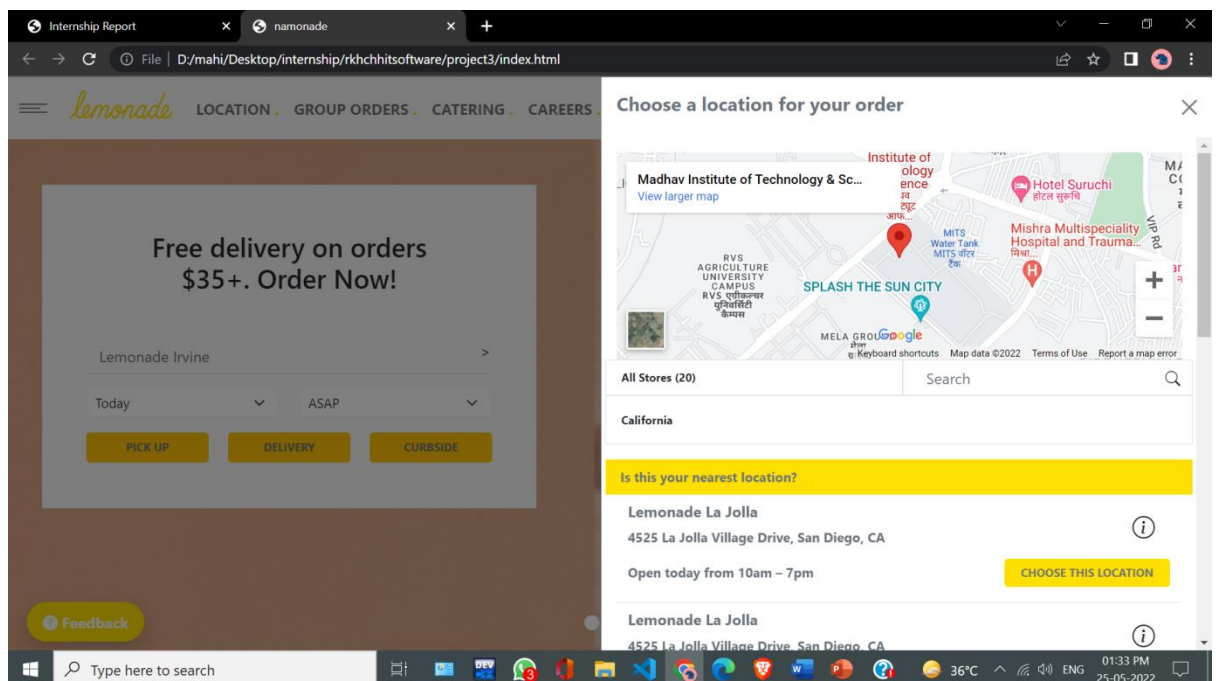
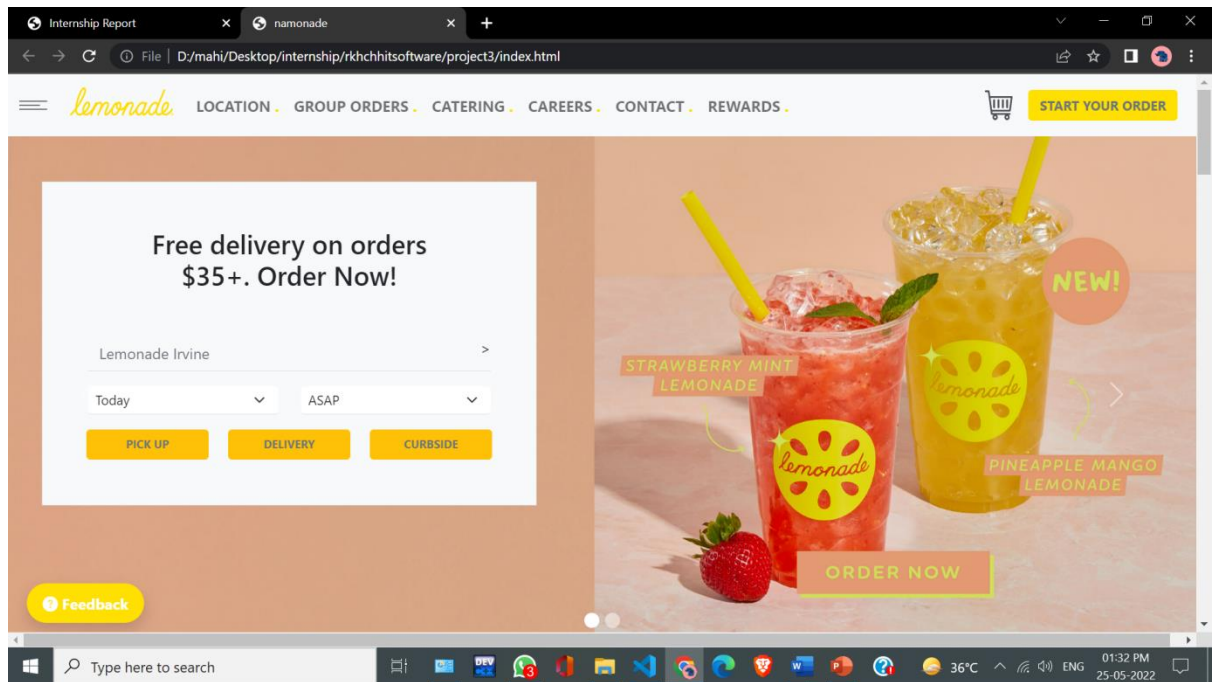
1.4 Mongo DB

MongoDB is an open source NoSQL database management program. MongoDB are used to save unstructured data.

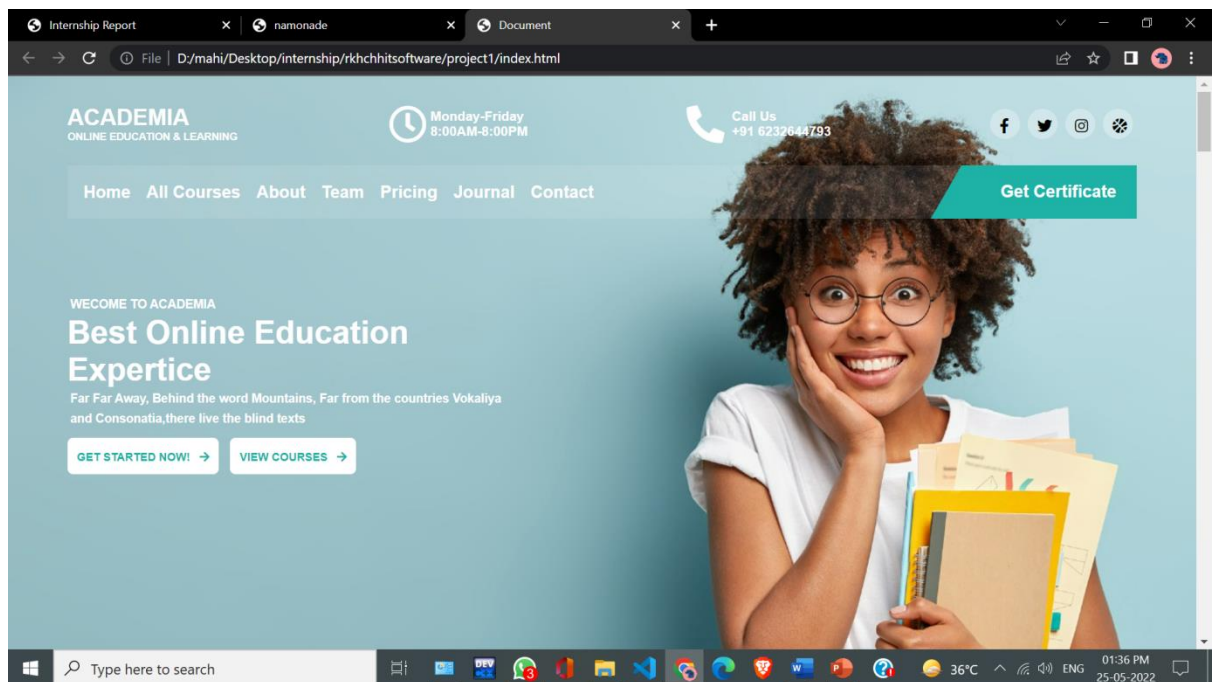
Chapter 8:

Task done using HTML, CSS, Bootstrap

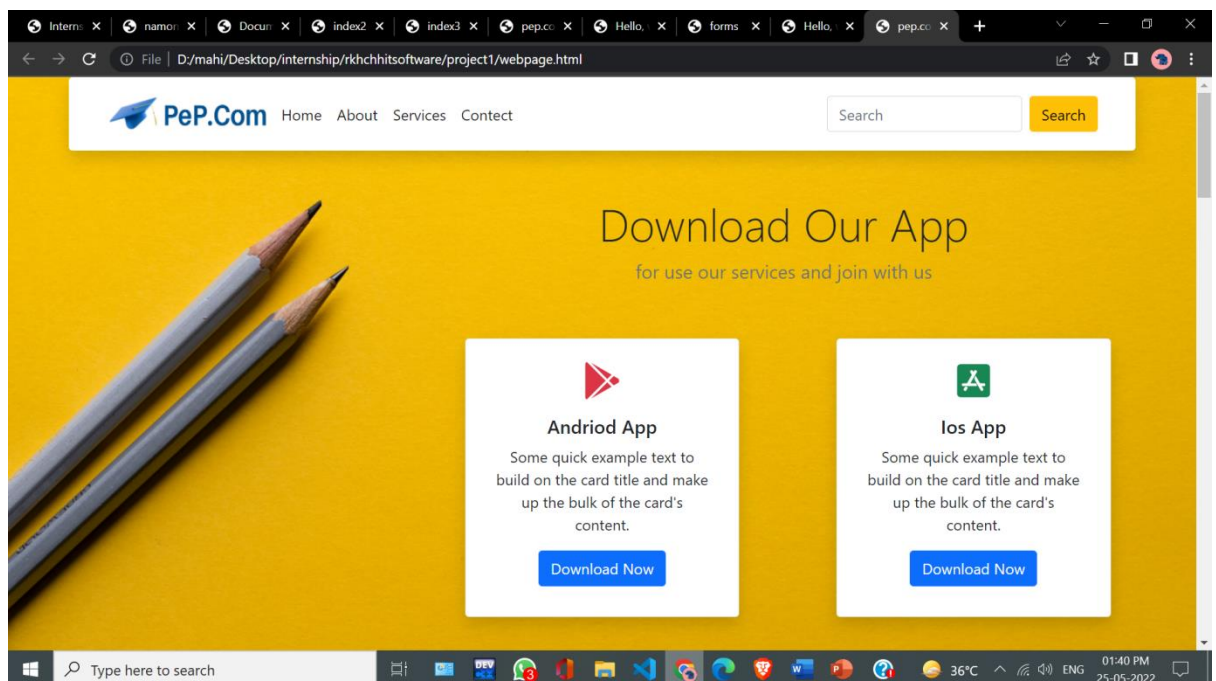
1. Index page design of lemonade website



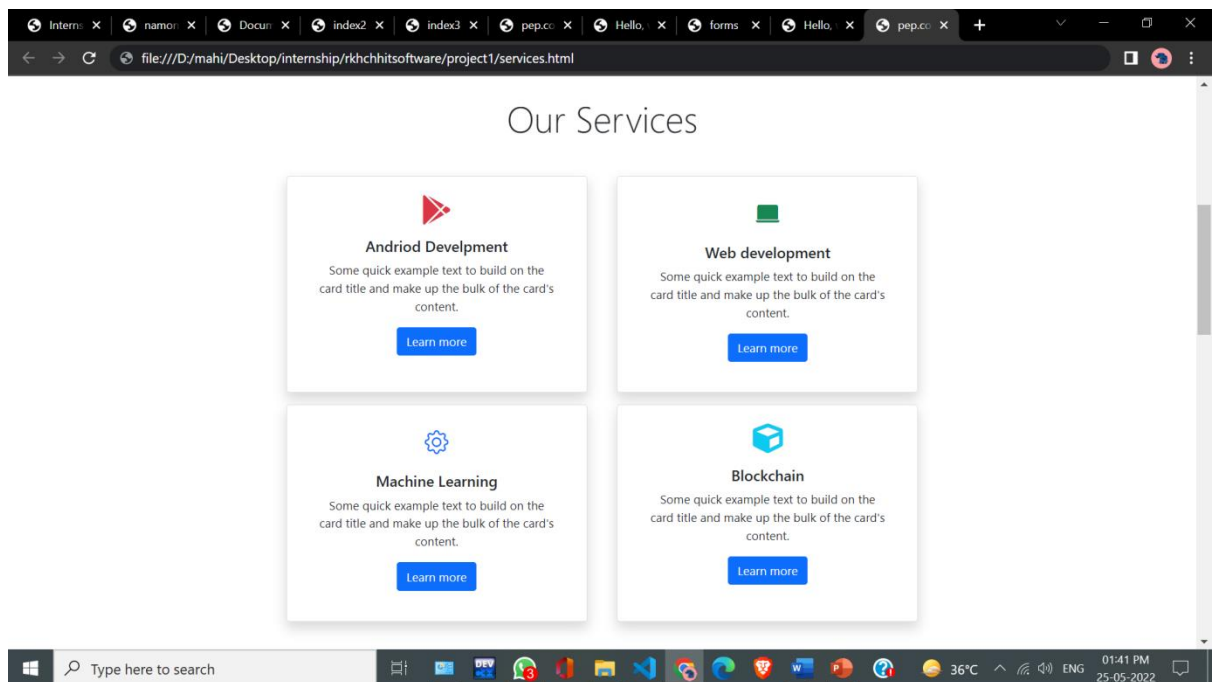
2. Index page design of acadmia website



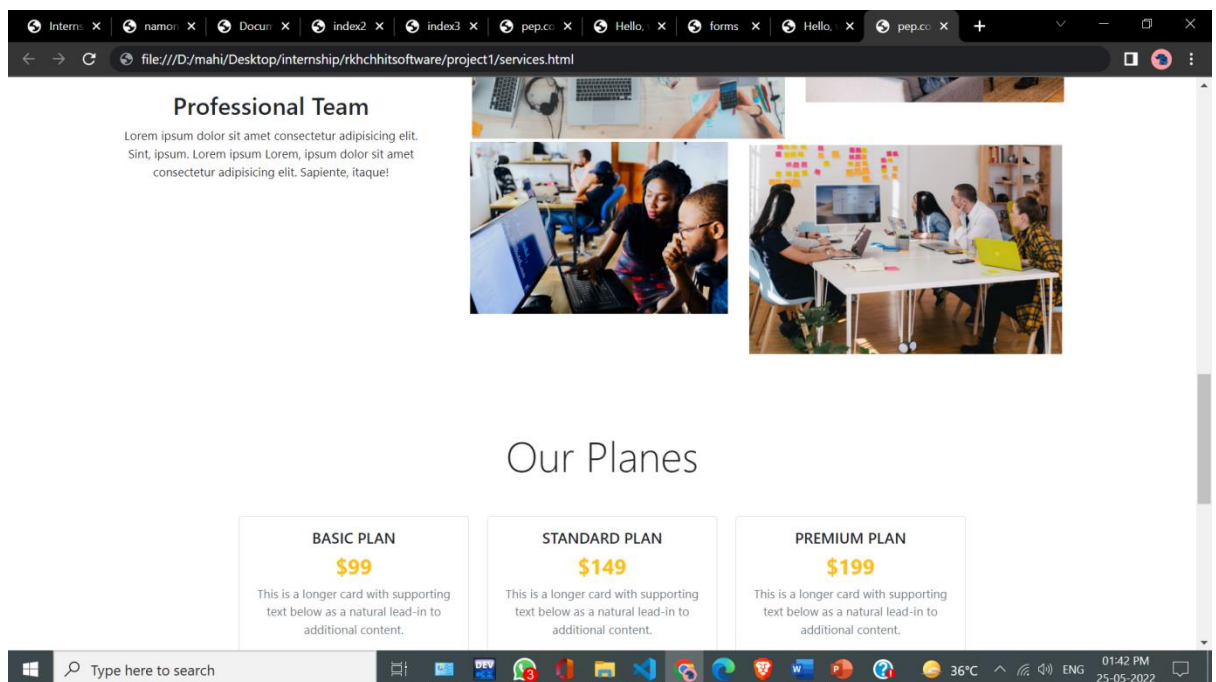
3. Full website design pep.com - home page



Service page



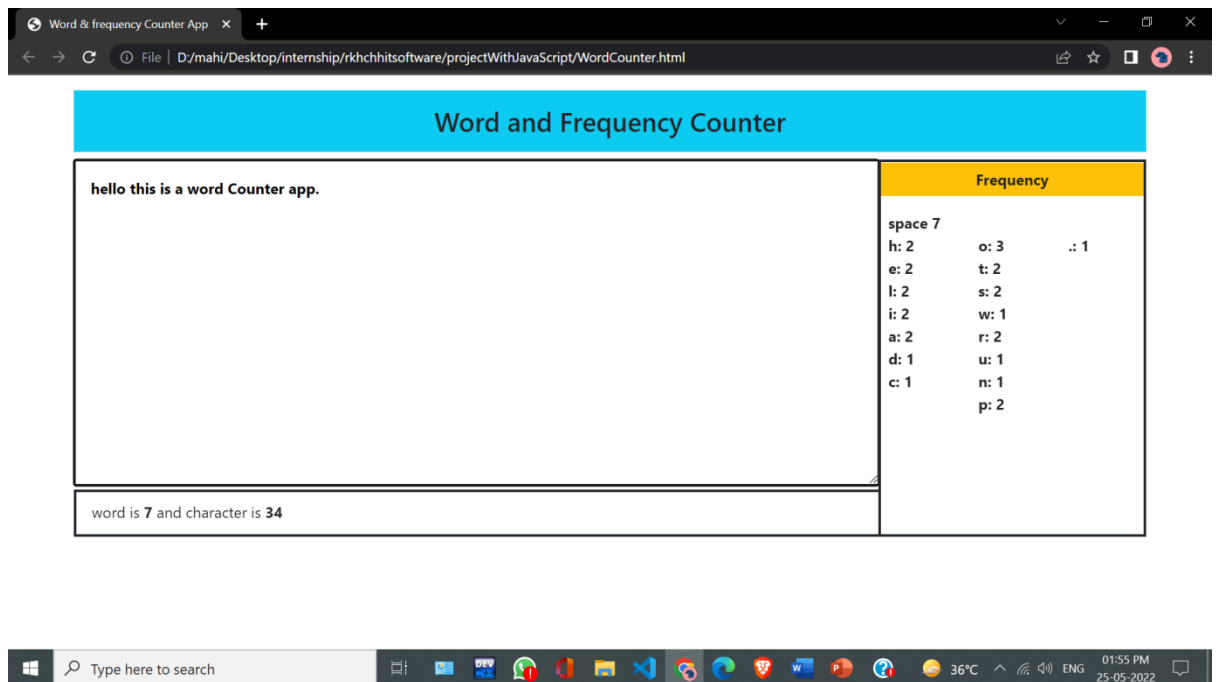
Plans page-



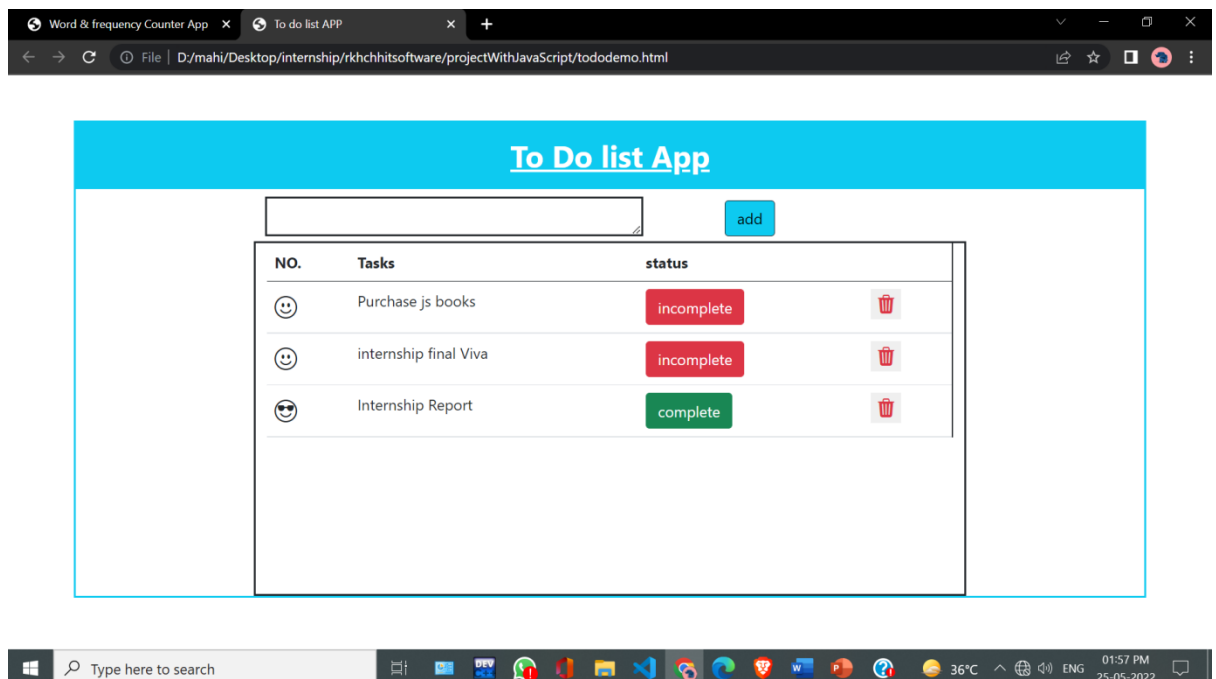
Chapter 9:

Task done using JavaScript

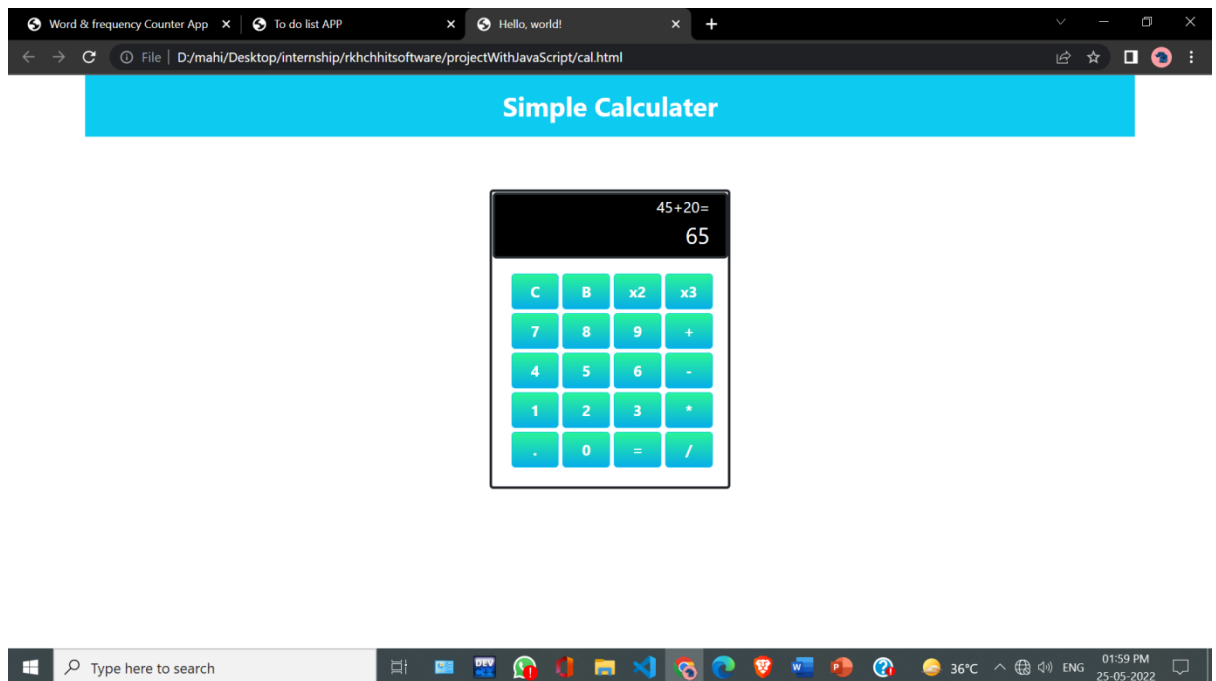
1. Word Counter Application



2.ToDo List Application

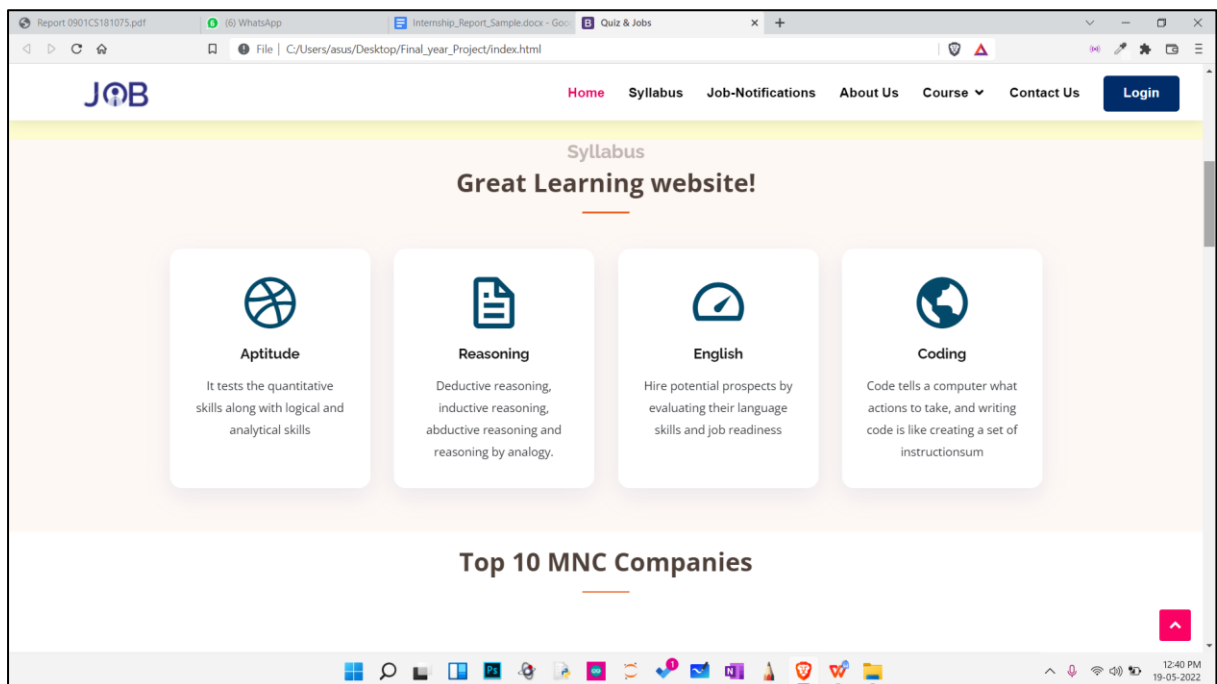
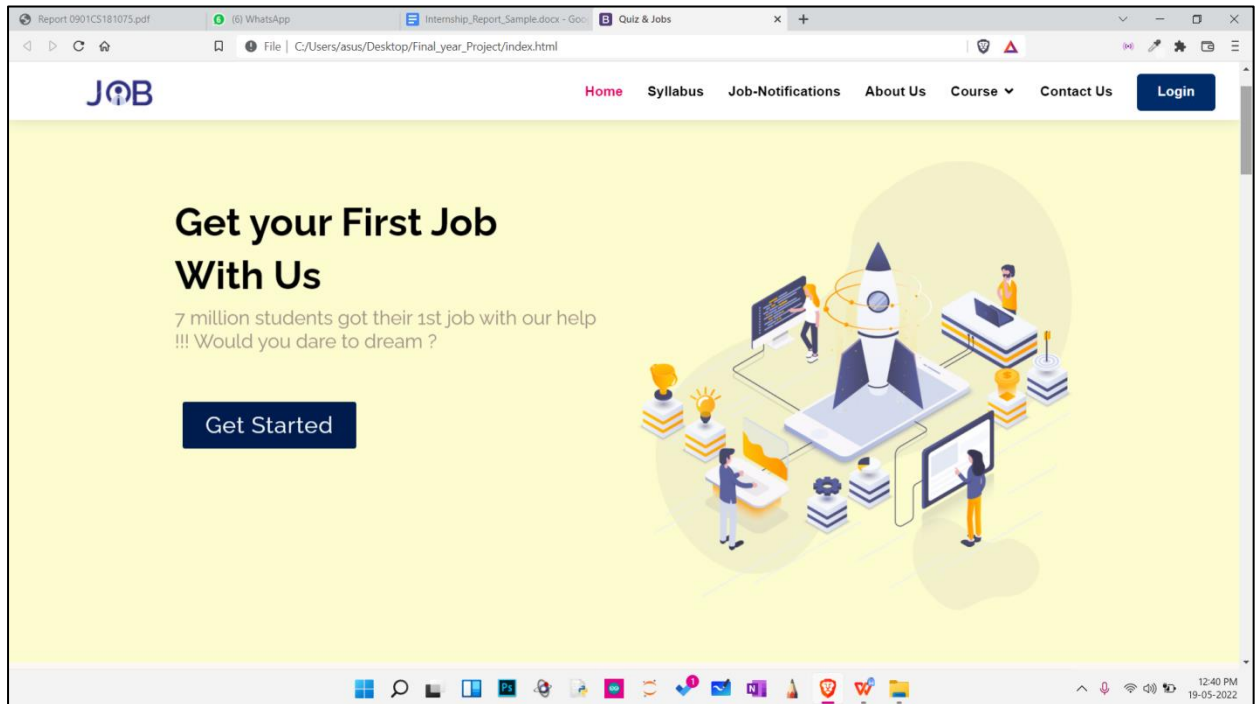


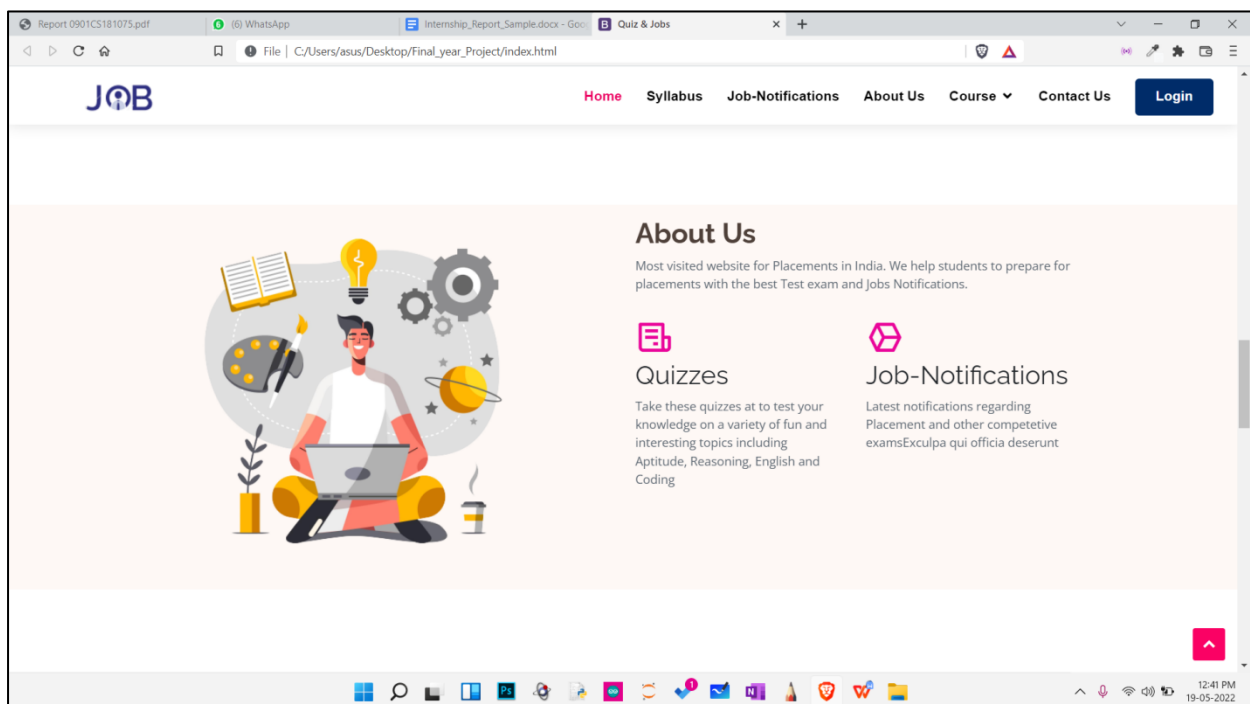
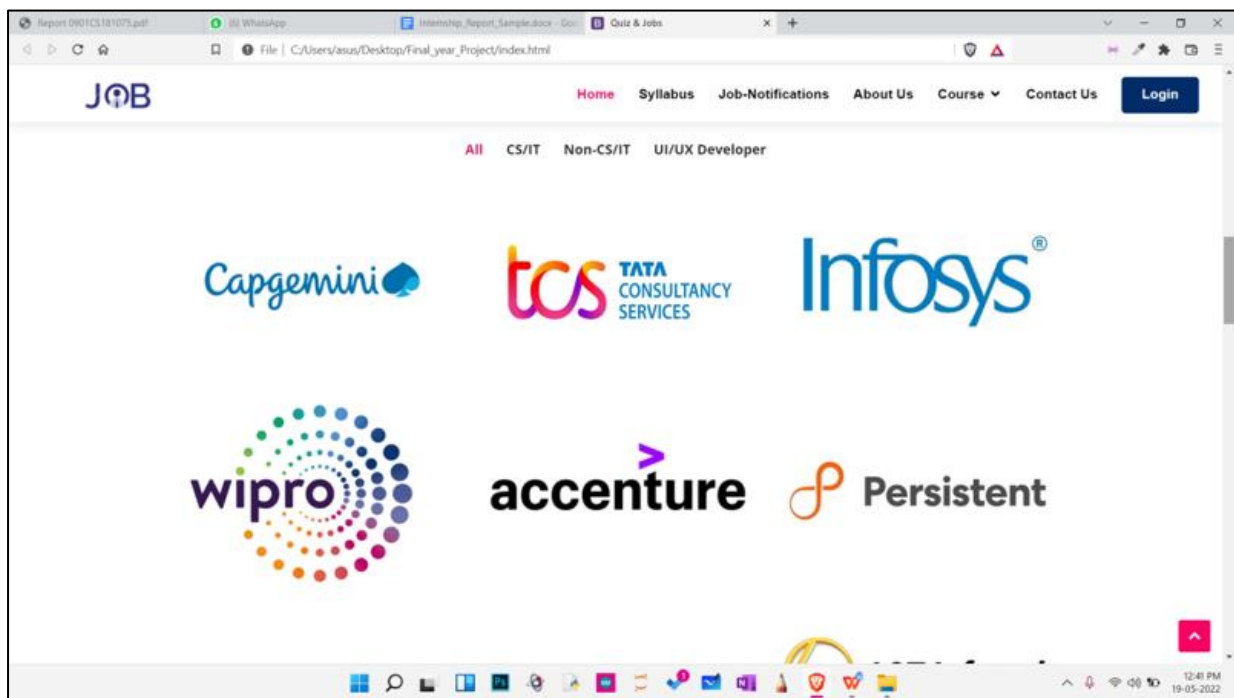
3. Calculator Application with Full functionality.

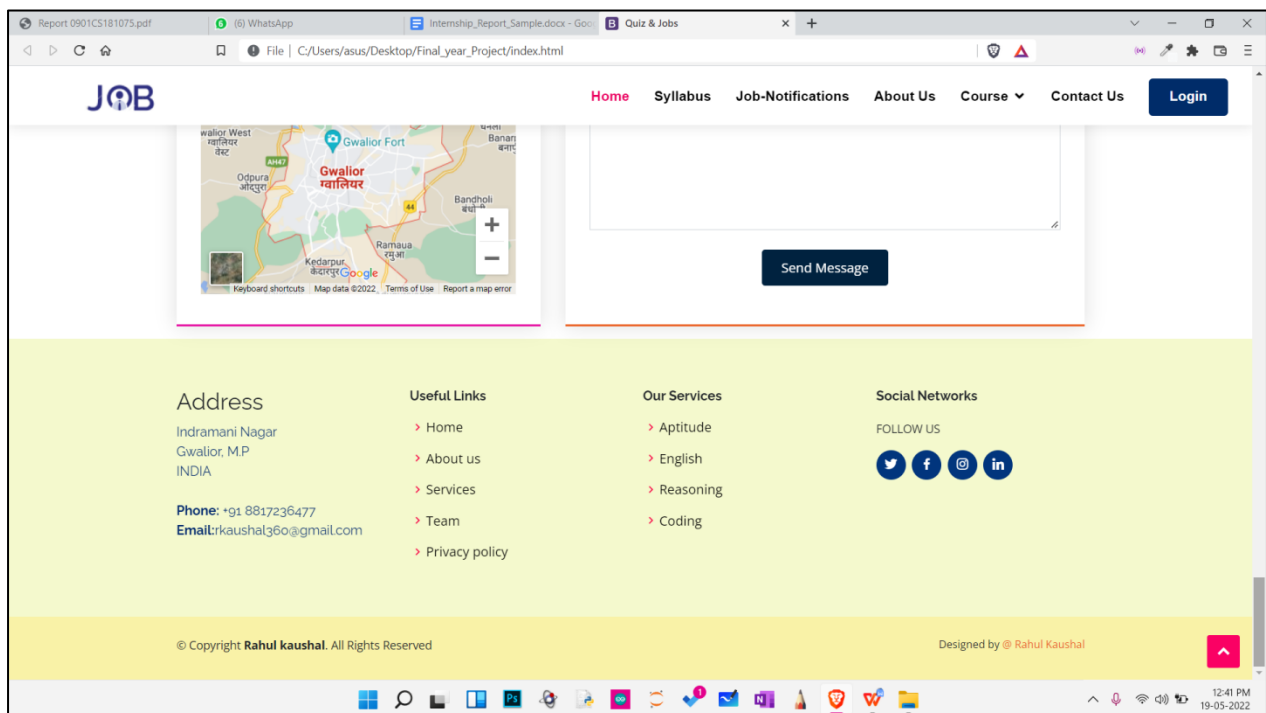
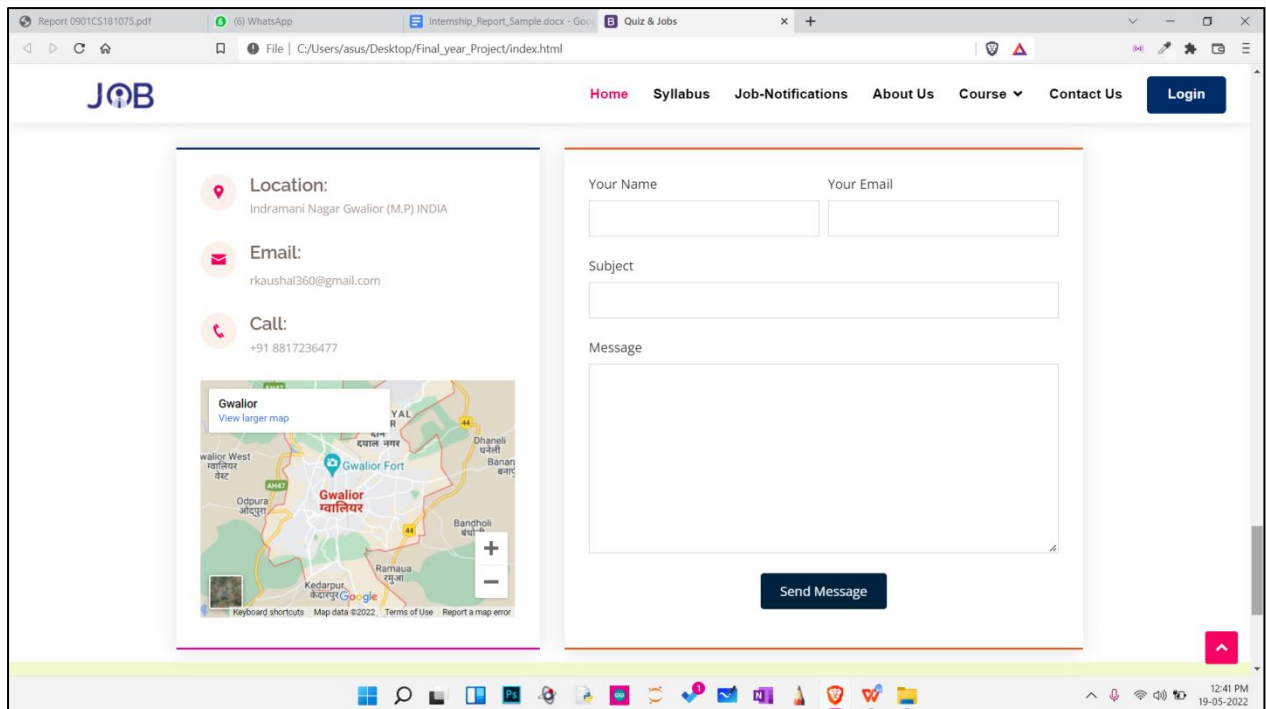


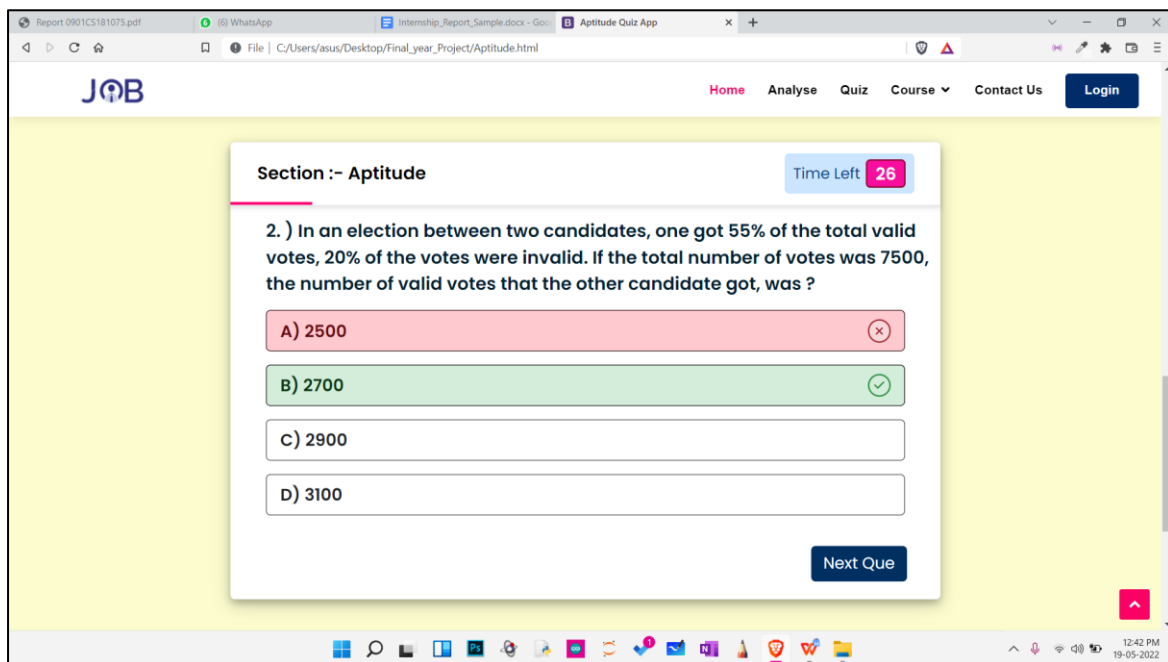
Chapter-10

10.1 Full front-end design of Jobs.com









Chapter 11:

Conclusion

I develop better understanding to build web applications. I have learn html, css, bootstrap, js, react technologies. Our internship is not complete yet. We will learn node js and mongo db technologies in upcoming one an half month. The journey to learn full stack development is very challenging and as well as interesting. Its an opportunity to have practical work experience is amazing. I work on different projects and I have completed some important task. I build so many web pages and web components.

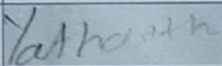
References

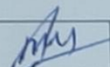
1. Company website
<https://rkhchhitsoftware.com/>
2. Bootstrap official documentation
<https://getbootstrap.com/docs/5.0/getting-started/introduction/>
3. Geeksforgeeks for understanding the concepts
<https://www.geeksforgeeks.org/>

Appendice

1. 01 January to 31 January

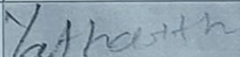
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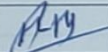
Name of student	MAHENDRA SINGH KUSHWAH		Department	Computer Science & Eng.	
Industry/Organization	Rkhchhit Software Pvt. Ltd.		Date/Duration	1Jan-31Jan	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Create GitLab Account and learn Uses of GitLab Creating website layout/user interfaces by using standard HTML/CSS practices				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	15/02/22	Name of Faculty Mentor	mahesh parmar	Sign	
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2 .01 February to 15 February

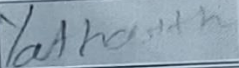
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
Name of student	MAHENDRA SINGH KUSHWAH	Department	Computer Science & Eng.		
Industry/Organization	Rkhchl Software Pvt. Ltd.	Date/Duration	1Feb-15Feb		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	<p>Creating website layout/user interfaces by using standard HTML/CSS practices</p> <p>Integrating data from various back-end services and databases</p>				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	15/02/22	Name of Faculty Mentor	maresh parmar	Sign	
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3.16 February to 28 February

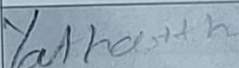
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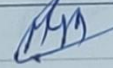
Name of student	MAHENDRA SINGH KUSHWAH		Department	Computer Science & Eng.	
Industry/Organization	Rkchhlt Software Pvt. Ltd.		Date/Duration	16-02-22 to 28-02-22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Creating responsive Webprojects and learning javascript				
OVERALL GRADE (Any one)	✓				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	16/02/22	Name of Faculty Mentor	mahesh parmar	Sign	
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4. 01 march to 15 march

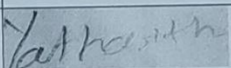
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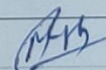
Name of student	MAHENDRA SINGH KUSHWAH		Department	Computer Science & Eng.	
Industry/Organization	Rkchell Software Pvt. Ltd.		Date/Duration	01-03-2022 to 15-03-2022	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Learning JavaScripts Concepts <ul style="list-style-type: none"> • Grammar and types (before literals) • Control flow and error handling (• Loops and iteration • Functions • Expressions and operators (read it once and get a basic idea) • Numbers and dates (just read it once and get a basic idea) • Text formatting (before Number formatting) • Regular expressions (skip it for now) • Indexed collections aka ARRAYS (imp but cover before Array methods) • Keyed collections 				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	30/03/22	Name of Faculty Mentor	makesh parmar	Sign	
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5. 16 march to 31 march

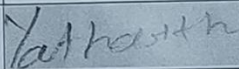
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

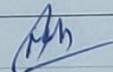
Name of student	MAHENDRA SINGH KUSHWAH		Department	Computer Science & Eng.	
Industry/Organization	Rkchhl Software Pvt. Ltd.		Date/Duration	16-03-22 to 31-03-22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	<p>Nature of work-JavaScript Topics 1- Learn HTML DOM(document object model). 2- Learn DOM events. 3- Create Table Program 4- Create a Calculator. 5- Create a to do list. 6- Create a word & frequency counter. 7- Initially hiding the photos</p>				
OVERALL GRADE (Any one)	✓				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	30/02/22	Name of Faculty Mentor	mahesh parmar	Sign	
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6. 01 April 15 April

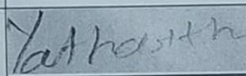
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

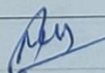
Name of student	Mahendra singh kushwah		Department	Computer Science & Eng.	
Industry/Organization	Rkhchhit Software Pvt. Ltd.		Date/Duration	01-04-22 to 16-04-22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Tic-Tac-Toe Game Project using JavaScript, Bootstrap, Html & CSS				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	16/04/22	Name of Faculty Mentor	makesh parmar	Sign	
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7. 16 April 01 may

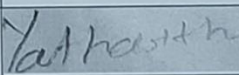
FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


Name of student	Mahendra singh kushwah	Department	Computer Science & Eng.		
Industry/Organization	Rkhchhit Software Pvt. Ltd.	Date/Duration	16-04-22 to 01-05-22		
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	Understanding the fundamentals of React Js				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	01/05/22	Name of Faculty Mentor	maresh parmar	Sign	
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8. 01 may to 15 may

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mahendra singh kushwah	Department	Computer Science & Eng.		
Industry/Organization	Rkhchhit Software Pvt. Ltd.	Date/Duration	16-04-22 to 01-05-22		
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	Creating Company website Frontend in reactjs				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. YATHART TIWARI				
Signature of Industry Mentor					

Receiving Date	01/05/22	Name of Faculty Mentor	mahesh parmar	Sign	
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