

Full-Stack Development

A PROJECT REPORT

Submitted by

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In Partial fulfillment for the award of the degree Of

BACHELOR OF ENGINEERING

in

Information Technology

Dr. Jivraj Mehta Institute of Technology, MOGAR



Gujarat Technological University, Ahmedabad

May, 2023

**DR. JIVRAJ MEHTA INSTITUTE OF TECHNOLOGY,
MOGAR**



CERTIFICATE

Date: ___/___/2023

This is to certify that the internship report submitted along with the internship entitled “FULL-STACK DEVELOPMENT” has been carried out by Chintan Harshadbhai Patel (1908020116009) under my guidance in fulfillment of the degree of Bachelor of Engineering in Information Technology (8th Semester) of Gujarat Technological University, Ahmedabad during the academic year 2022-23.

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Declaration

I hereby declare that the internship report for the “Full-Stack Development”, which was submitted to Gujarat Technological University in Ahmedabad as part of the requirements for the degree of Bachelor of Engineering in Information Technology, is an authentic record of the project work I completed at **V-Ex Tech** under the supervision of Mr. Himanshu Agraval, and that no part of this report has been directly copied from any other student's repository.

| | Name of the student | Enrollment no. | Sign |
|---|---------------------------|----------------|------|
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Place: V-Ex Tech

Date:

COMPLETION CERTIFICATE



Software Solution

To,
HeadofDepartment

Bachelor of
Engineering
Dr.Jivraj Mehta

Anand ,

Date: 06/05/2023

Subject: Internship Completion Letter

As per the requirement from the college regarding the Internship, we have provided an internship to **Chintan Harshadbhai Patel (Enr. No.: 190820116009)** student of **Bachelor Of Engineering(IT), Dr. Jivraj Mehta Institute And Technology, Anand** as per our company rules for the period of 06-02-2023 to 07-05-2023. During the internship, he Learned HTML,CSS,javascript,React Js,Node Js,Express js,Mongo Db, & many more related concepts which require in Full Stack developer. We found him responsible, enthusiastic, and hard-working during his working tenure. he is a dedicated worker and possesses a pleasant manner.

We wish him all the best in his future endeavor.



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GUJARAT TECHNOLOGICAL UNIVERSITY

CERTIFICATE FOR COMPLETION OF ALL ACTIVITIES AT ONLINE PROJECT PORTAL

B.E. SEMESTER VIII, ACADEMIC YEAR 2022-2023

Date of certificate generation : 07 May 2023 (21:42:34)

This is to certify that, **Patel Chintan Harshadbhai** (Enrolment Number - 190820116009) working on project entitled with **Smart Cab Point** from **Information Technology** department of **DR. JIVRAJ MEHTA INSTITUTE OF TECHNOLOGY, MOGAR, ANAND** had submitted following details at online project portal.

| | |
|---------------------------|-----------|
| Internship Project Report | Completed |
|---------------------------|-----------|

Name of Student : Patel Chintan
Harshadbhai

Name of Guide : Mrs. Roma Rameshbhai Barot

Signature of Student : _____

*Signature of Guide : _____

Disclaimer :

This is a computer generated copy and does not indicate that your data has been evaluated. This is the receipt that GTU has received a copy of the data that you have uploaded and submitted as your project work.

*Guide has to sign the certificate, Only if all above activities has been Completed.

ACKNOWLEDGEMENT

“I wish to extend my special thanks to V-Ex Tech for giving me an opportunity to do this wonderful Internship on Full-Stack Development.

This is My Internship Training Report after Completion of Internship Training at **V-EX Tech Solution**. I wish to express My Sincere thanks to my Internal Guide Asst. Prof. Roma Barot, Head of the Department of Information Technology for giving me support and the necessary suggestions and advices.

I Especially Thank My Supervisor, **Mr. Veer Aggarwal Sir**, for constantly guiding and supporting me throughout the Training. My Heartfelt Gratitude also goes out to all the staff and employees **V-EX Tech Solution** for Cooperating with me and guiding me throughout My Internship.

“And I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame. I appreciate the guidance given by **The Team V-Ex Tech** for the internship”

Thank you!!!

Chintan Harshadbhai Patel

190820116009

ABSTRACT

This report outlines my experience as a Full-Stack Development Intern. The internship provided me with the opportunity to work on Both Frontend and Backend of Website and gain hands-on experience in designing, developing, and deploying.

As a Full-stack Development Intern, Firstly I was tasked to design website template and simple website which have basic functionality. The report covers the project's goals, development process, and technologies used, including ReactJS, Node.js, and MongoDB.

The internship also highlights the key features of the final Project Smart Cab Point, the smart cab point is online platform that allows users to book taxis or cabs online using their computers, laptops or mobile devices. A smart cab booking website typically includes features user registration. The smart cab booking website's design and functionality should be user-friendly and enabling users to quickly and book a ride. Users can book a cab for trip from anywhere at any time, eliminating the to wait on the street for cab.

Overall, a smart cab booking website provides users with a hassle-free and convenient way to book cab services and helps them save time and money by comparing prices and choosing the best cab service available.

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CHAPTER 1: OVERVIEW OF THE COMPANY

1.1: COMPANY PROFILE



Company Name: V-Ex Tech

Website: <https://V-Ex Tech software solution>

Email id: himanshu0409agraval@gmsail.com

Address: 101, First Floor, Kunal Complex, Delux Char Rasta, Opposite Passport Office, Nizampura, Vadodara, Gujarat 390002

1.2: ABOUT COMPANY

V-Ex Tech is an ISO Certified software consulting & service Company. V-Ex tech is Having Strong Experience of 16+ Years in designing software & create dynamic web pages, creating admin panel with back-end.

It Is a part of V-Ex tech, which is in existence since 2001.it is having software company in Vadodara (Gujarat).

They have Specialties on Time Punctuality, Easy to Use, Best Management, Good Concept, Web Development, Front-End / Back-End and Full Stack and Data Analytics.

V-Ex Tech is delivering software solutions across industry verticals like banking, finance, spanning from large multinational corporation to small, medium & large enterprises located in USA, Canada, UK, Europe, Africa and Australia.

1.3: SERVICE OF COMPANY

Full-Stack Development: V-EX Tech Solution is a leading provider of full stack developer services, offering clients end-to-end development solutions for web and mobile applications. The company is headquartered in Vadodara, with a team of experienced developers and designers who specialize in building custom applications using the latest technologies and frameworks.

Data Analytics: V-Ex Tech Solution also provides services of data analytics. Data analytics typically involves four main stages: data collection, data processing, data analysis, and data visualization.

Python Programming: V-EX Tech Solutions is a software development company that provides Python programming services to clients worldwide. The company has a team of experienced Python developers who specialize in building high-quality, scalable, and robust software solutions.

Web Design and Development: The company's web development services include front-end and back-end development, e-commerce development, and CMS development. They have experience working with a variety of content management systems.

PHP Laravel: V-EX Tech Solution offers a wide range of PHP Laravel services, including custom web application development, e-commerce development, CMS development, and API development.

React JS or Node JS Development: V-EX Tech Solution is a company that provides ReactJS and NodeJS services is likely a web development company that specializes in building web applications using these technologies. ReactJS is a JavaScript library that is used for building user interfaces, while NodeJS is a runtime environment for executing JavaScript code outside of a web browser

1.4 SCOPE OF WORK

They provide reasonably priced services for web development, eCommerce website design, website makeover, SEO, and email marketing. Their goal is to create a website that is usable in a variety of settings that is professional, creative, and user-friendly.

They are here to assist you in getting a high-quality, inexpensive website that is simple to update. Their clients can manage their own web updates from anywhere in the world using their easy-to-use online content management system (CMS), even without any prior knowledge of website design.

1.5 VALUES

Innovation: It often prioritizes innovation and pushing the boundaries of what is possible with technology. This may involve experimenting with new technologies or finding creative solutions to problems.

Customer-centricity: Many companies prioritize their customers' needs and strive to provide excellent customer service. They may seek feedback and adjust their products or services accordingly to meet their customers' needs.

Collaboration: It often values collaboration and teamwork. This may involve working across different departments, partnering with other companies, or collaborating with customers.

Social responsibility: Social responsibility and may take steps to reduce their environmental impact, promote diversity and inclusion, or support local communities.

CHAPTER 2: INTRODUCTION TO INTERNSHIP

2.1: Internship Summary

As a Full Stack Development Intern, my primary responsibility was to work on developing web applications. During my internship, I gained hands-on experience in different programming languages and frameworks, such as HTML, CSS, JavaScript, ReactJS, Node.js, and Express.js.

During the starting of internship, I learned HTML, CSS, JavaScript and creating landing Page of food shop and simple functionality website as tasks. Then I worked on project which created using ReactJS, Node.js, Express.js. In Front-end using ReactJS I learned to develop dynamic and interactive user interfaces using JSX, React Components, and React Router. I also gained experience in backend technologies, including Node.js and MongoDB. I worked on projects that involved building RESTful APIs using Node.js and Express.js, integrating databases, and performing CRUD operations on data. I also gained experience in designing and implementing database schemas using MongoDB.

Throughout my internship, I collaborated with the team to understand client requirements, create detailed project plans, and implement best practices in software development.

Overall, my Full Stack Development Internship provided me with a comprehensive understanding of the development process and helped me gain valuable skills that I will be able to apply in my future career as a software developer.

2.2 PURPOSE

- To provide you with practical experience in developing and deploying web applications using modern frontend and backend technologies.
- To help you gain proficiency in ReactJS, Redux, Node.js, and MongoDB, which are popular and in-demand technologies in the web development industry.
- To help you understand how to design and implement robust and scalable backend systems using Node.js and MongoDB.
- To help you develop a strong understanding of modern web development best practices, including responsive design, accessibility, and security.

2.3: OBJECTIVES

- To gain experience in front-end and back-end web development, including programming languages such as HTML, CSS, JavaScript, ReactJS, Node.js, and Express.js and learn how to connect and use MongoDB database
- To gain practical experience in developing web applications, including designing, testing, and deploying scalable and performant applications.
- To learn about emerging trends and best practices in full-stack development, including new technologies, tools, and frameworks.

2.4: SCOPE

- Learning and applying front-end and back-end development skills
- Working on projects and gaining hands-on experience
- Collaborating with cross-functional teams
- Improving project management skills
- Building a portfolio of projects

2.5: MY ROLE

- ReactJS: Developed the user interface using ReactJS, a popular front-end JavaScript library.
- Backend Development: Worked on the backend development of the application, including building and managing RESTful APIs using Node.js and MongoDB.
- Problem-Solving: Demonstrated strong problem-solving and analytical skills to overcome technical challenges.
- Continuous Learning: Pursued continuous learning through Google, documentation.
- Performance Optimization: Optimized the application's performance and scalability for improved user experience.

2.6 TECHNOLOGIES USED

- Frontend: ReactJS, React Router, HTML/CSS/JavaScript
- Backend: Node.js, Express.js, MongoDB
- Development Tools: Visual Studio Code
- Deployment: Netlify

2.7 INTERNSHIP PLANNING

2.7.1 Internship Development Approach and Justification

- Before The Starting of Internship, Interns should have the knowledge about His choosed Technology.
- A Successful Internship requires not only a good deal of effort on the side of The Intern, but managers and supervisors most also put in some work to ensure that the Intern gets a meaningful experience.
- The Key is to Accept Responsibility when things don't go as planned. taking ownership and articulating possible solutions will result in faster resolution and enable others to see us as a Leader.
- On behalf of students, we are always working with them on things they can do to become a better intern. For example, we talk about the values and skills that employers look for in a good intern

2.7.2 Internship Effort and Time

- As an Intern, I have gained the experience of Live Project & How to work in Hectic Situation.
- I conduct Myself in a professional manner at all times and this is the role and responsibility of an Intern.
- Develop a respectful and co-operative relationship with the company mentors and the other interns at the working place.
- Always be punctual to work and always behave in an ethical manner.
- Completed My Internship in Full-Stack development in 12 weeks of time period.

CHAPTER 3: WORK OF INTERNSHIP

3.1 TASK 1: LANDING PAGE

3.1.1 Output:

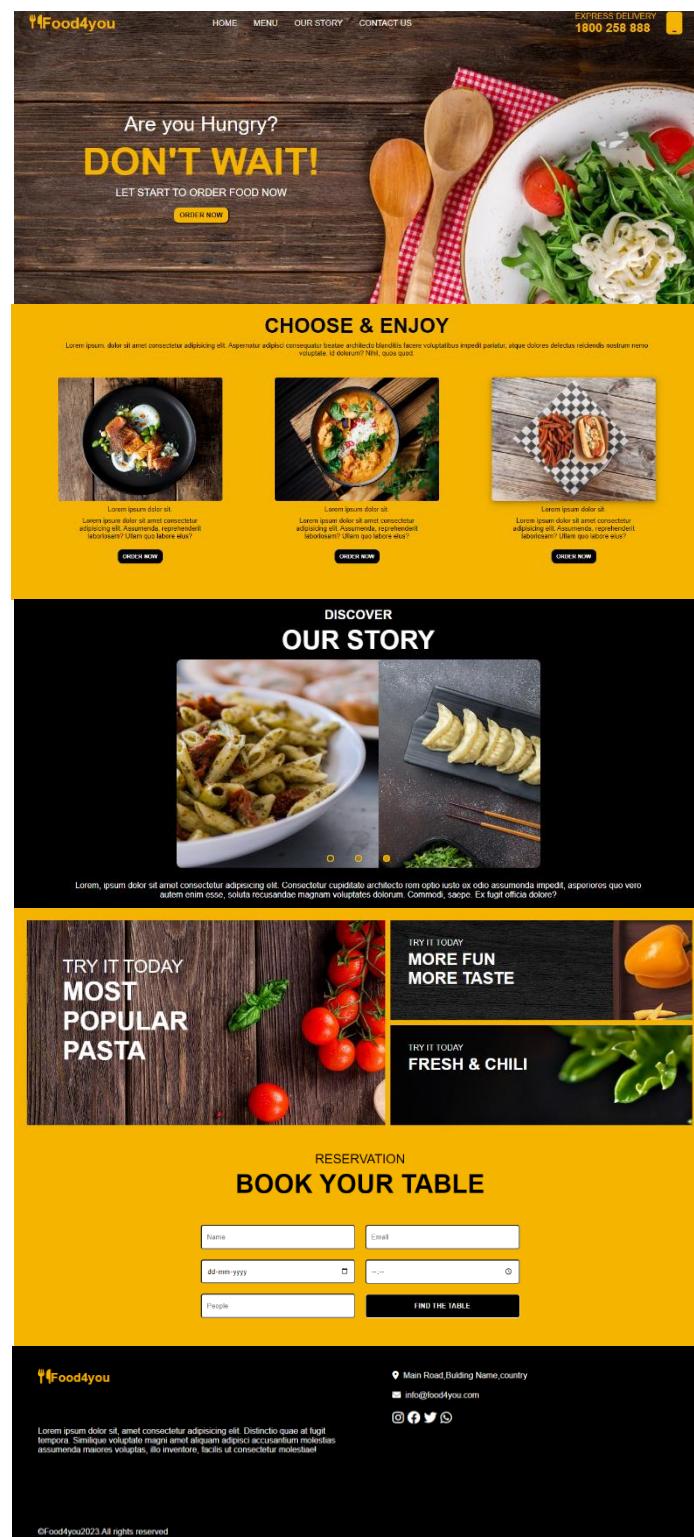


fig 3.1.1 Landing page

3.1.1 Explanation:

- This task of Landing Page creates using HTML, CSS, and JavaScript.
- Landing Page involved navigation bar, main page, simple slider, form section, and footer part.
- By creating this landing page I learned important concepts of HTML, and CSS such as HTML form, flexbox css, slider by JavaScript etc.

3.2 TASK 2: SIMPLE WEBSITE

3.2.1 Output:

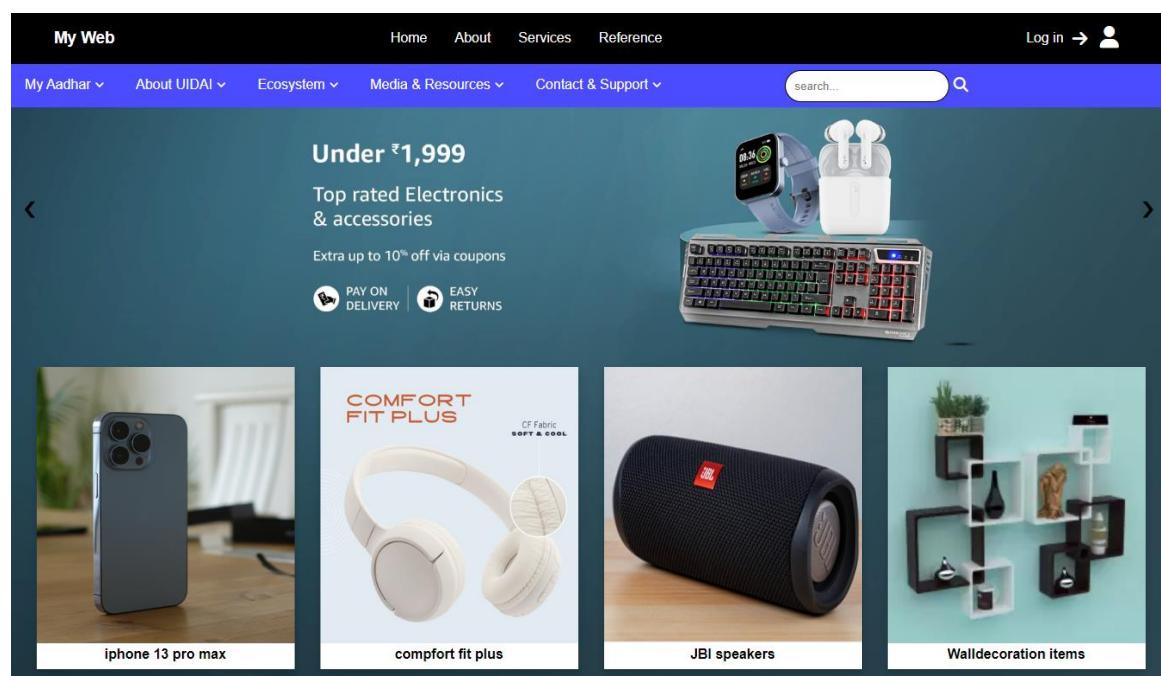


Fig 3.1.2 simple website

- This task of creating website includes the navigation bar, sub navigation, background-image slider, cards on slider which flip when hover the cursor.
- sub navigation list-item open the division which create using table when hover the cursor.
- Creating this I learned more concept of CSS and HTML.

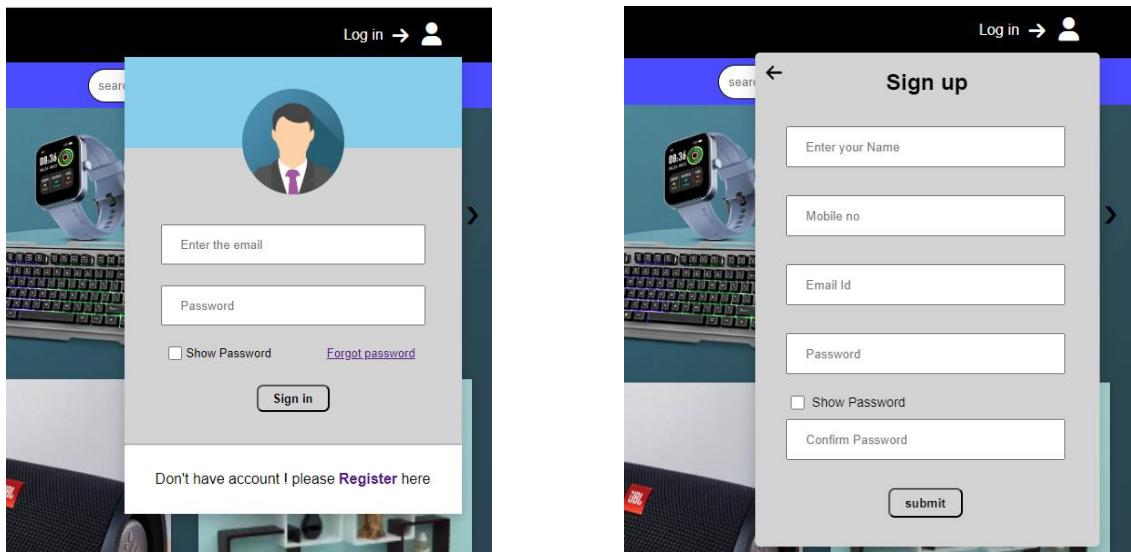


Fig 3.3.3 sign in &sign up

- By adding Icon on in navigation learned how to add icon by external link.
- When hover the user icon open the popup of sign-in and this popup have link of register or signup popup.
- Using JavaScript event and function give the required validation when user submit the form.

CHAPTER 4: SYSTEM ANALYSIS OF PROJECT

4.1 IDENTIFYING PROJECT PROCESS

- The Smart Cab booking website is built using the MERN stack, which includes MongoDB, Express.js, ReactJS, and Node.js.
- This website allows users to book taxis or cabs online using their computers, laptops or mobile devices. A smart cab booking website typically includes features user registration, user authentication and authorization, allowing users to sign up, log in, and manage their bookings etc.
- Simple and user-friendly interface that enables customers to easily book cab services online.
- The website should allow customers to select their pick-up and drop-off locations, choose the type of vehicle they need, and schedule their ride at their preferred time.
- The website utilizes MongoDB as the database to store and manage room and booking data.

4.2 PURPOSE

- to provide an online platform for customers to book a cab or taxi easily and conveniently.
- The website should allow customers to select their pick-up and drop-off locations, choose the type of vehicle they need, and schedule their ride at their preferred time.
- The website should also provide real-time information on the availability of cabs and estimated fares for the chosen route.

4.3 OBJECTIVE

- **Online Platform:** To provide a seamless and convenient online platform for customers to book cab services.
- **Easy and convenient booking process:** Simple and user-friendly interface that enables customers to easily book cab services online.
- **24/7 customer support**

4.4 PROBLEM AND WEAKNESS OF PROJECT PROCESS

- Scalability: Depending on the complexity and size of the application, the current system may not be able to handle a large number of users or bookings. This could result in slow performance and/or system crashes.
- Security: As the app includes features such as user authentication and authorization, it is important to ensure that the system is secure and protected against potential cross-site scripting attacks, and unauthorized access.
- Data management: As the app relies on MongoDB as the database, it is important to ensure that data is properly managed and stored to avoid data loss, data corruption, or other data-related issues.
- Technical limitations: The app may face limitations based on the capabilities of the MERN stack, such as the ability to support certain features or scale to accommodate a large number of users.

CHAPTER 5: SYSTEM DESIGN / IMPLEMENTATION

5.1 OUTLINING THE PROCESS

- Visit the cab booking website: Visiting the cab booking website on your web browser.
- User registration: The user creates an account on the app by providing their personal information such as name, email, and password.
- User authentication: The user logs in to the app using their email and password or through social media logins.
- Enter your pickup and drop-off locations: Once you're logged in, enter your pickup location and drop-off location in the appropriate fields. You can also choose the date and time for your ride.
- Choose the type of cab: Depending on the cab booking website, you may have different options for the type of cab you want to book.
- Receive confirmation: Once you've confirmed your booking, you will receive a confirmation message or email from the cab booking website.
- User feedback: The app allows users to provide feedback on their experience, which can be used to improve the app's functionality and user experience.

5.2 HOME PAGE



fig 5.3 Home Page

- Home Page Component include many components. This above fig. has two components. Mynavbar.js and slider.js components.

5.2.1 How React app Render

```
<body>
  <noscript>You need to enable JavaScript to run this app.</noscript>
  <div id="root"></div>

</body>
```

fig 5.2.1.1 Index.html

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);

reportWebVitals();
```

fig 5.2.1.2 Index.js

- In Index.html file by id of division the App.js component run in the Index.js.

In Navbar using React Router Dom users can easily route multiple pages in single page application by installing npm (node package manager).

- React Router DOM is a popular library used in React applications for client-side routing. It provides a way for developers to create and manage multiple pages or views within a single-page application.

```
import { Route, BrowserRouter as Router, Routes } from "react-router-dom";
import Mynavbar from "./Mycomponents/Mynavbar";
import Home from "./React_Routing/Home";
import About from "./React_Routing/About";
import Service from "./React_Routing/Service";
import Contact from "./React_Routing/Contact";
import Login from "./Mycomponents/LGIN/Login";
import Register from "./Mycomponents/LGIN/Register";
import Common from "./React_Routing/COMMON/Common";
import ScrollToTop from "react-scroll-to-top";
import NorthIcon from '@mui/icons-material/North';
import "./React_Routing/HOME/home.css"
import TaxiBookForm from "./React_Routing/TaxiBookForm";
import Cart from "./React_Routing/Cart";

function App() {
  return [
    <div className="App">
      <Router>
        <Mynavbar/>
        <Routes>
          <Route path="/" element={<Home/>}/>
          <Route path="/home" element={<Home/>}/>
          <Route path="/about" element={<About/>}/>
          <Route path="/service" element={<Service/>}/>
          <Route path="/contact" element={<Contact/>}/>
          <Route path="/cart" element={<Cart/>}/>
          <Route path="/login" element={<Login/>}/>
          <Route path="/register" element={<Register/>}/>
          <Route path="/booking" element={<TaxiBookForm/>}/>
        </Routes>
        <ScrollToTop smooth component={<i><NorthIcon className='si'></i></ScrollToTop>}>
        <Common/>
      </Router>
    </div>
  ];
}

export default App;
```

fig 5.2.1.3React Router Dom

- React Router DOM is a powerful and flexible library that can help developers manage the routing logic in their React applications. Its support for client-side routing, declarative routing, nested routing, and history management makes it a popular choice among React developers.
- Using Router, Routes and Route we can manage the component of website in routing.

5.2.2 Other Component of Home Page

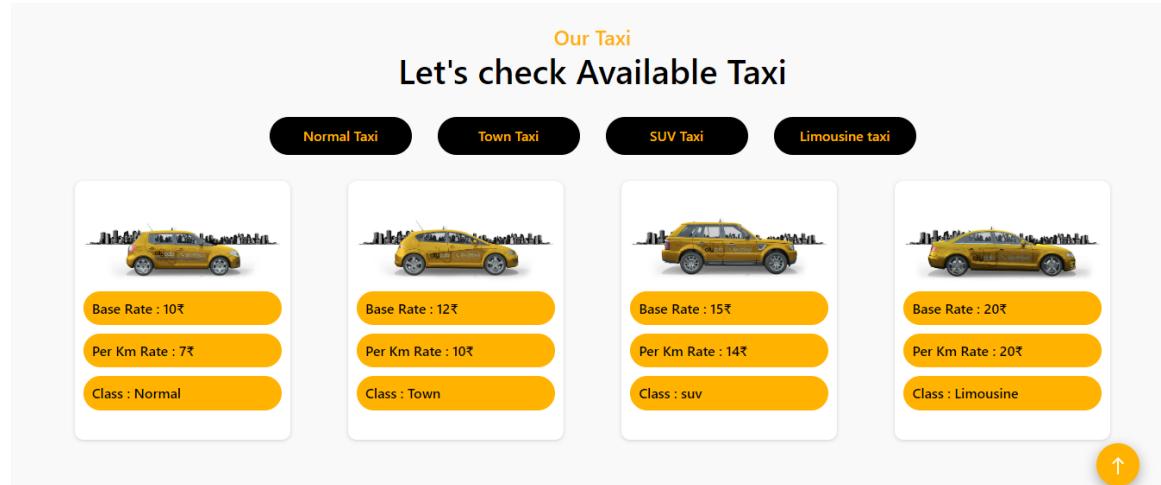


Fig 5.2.2.1 Ourtaxi component

- This Component show the available taxi for booking the ride.
- This taxi cards also show the base rate, rate per km and class of taxi.
- These cards creating by digital json data through Api calling and grid css.

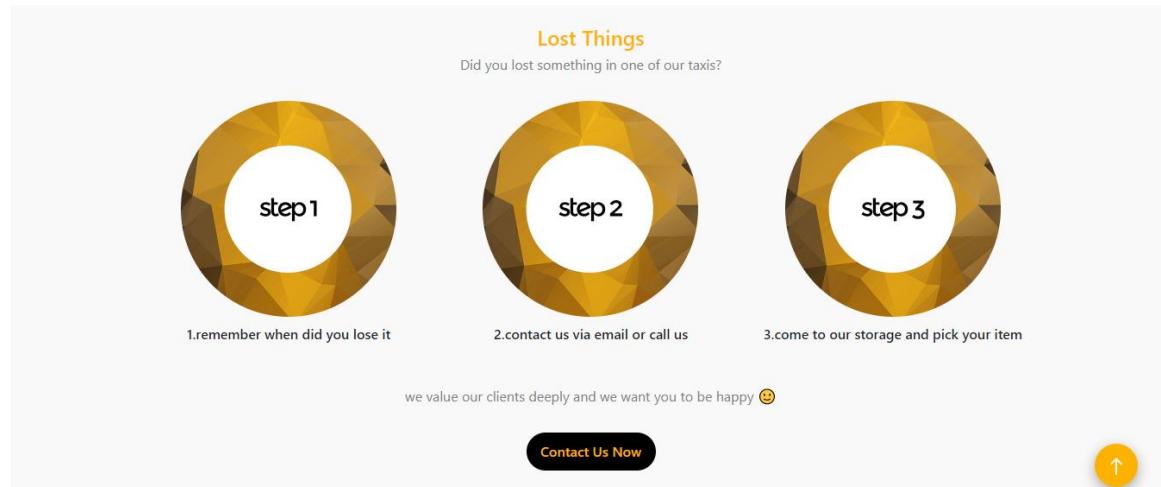


fig 5.2.2.2 Lostthings comp.

- This Component 's details and functionality help the customers when they lost things in cab.
- By following step, the user can click on button easily redirect on the contact page.

5.3 User Login and Register Page

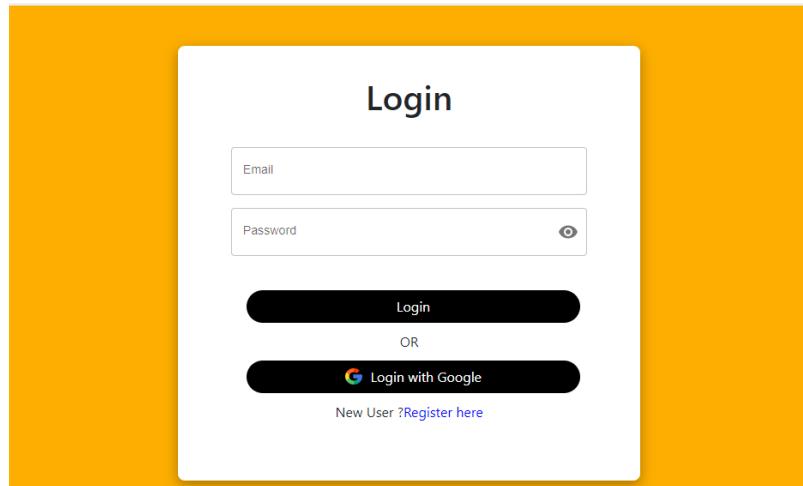


Fig 5.3.1 Login page

- This login form has required validation by using Formik and Yup.
- This form created using Material Ui which is used for attractive interface.
- User account creation: The app should allow users to create an account with their email address. This can help users save time when making future bookings, as their personal information will already be stored in the app.
- Before login user can redirect on the register page.

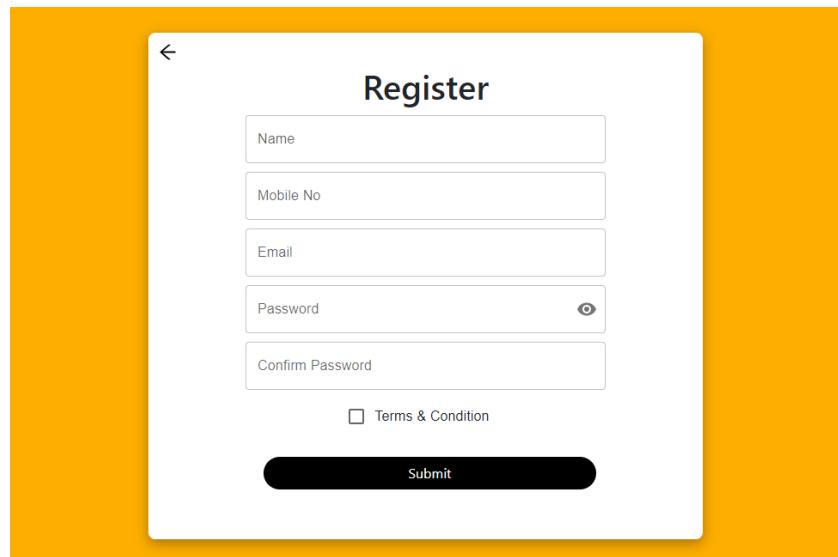


Fig 5.3.2 Register page

- Register Data can store in MongoDB atlas cloud Database.

The screenshot shows the MongoDB Atlas interface for the 'smartcab' cluster. On the left sidebar, under 'Database', 'mycab' is selected. The main panel displays the 'Collections' tab for the 'mycab' database, which contains three collections: 'contactdatas', 'registeredatas', and 'users'. Each collection has its logical data size, storage size, index size, and average document size listed. A 'CREATE COLLECTION' button is also visible.

| Collection Name | Documents | Logical Data Size | Avg Document Size | Storage Size | Indexes | Index Size | Avg Index Size |
|-----------------|-----------|-------------------|-------------------|--------------|---------|------------|----------------|
| contactdatas | 2 | 294B | 147B | 36KB | 1 | 36KB | 36KB |
| registeredatas | 2 | 334B | 167B | 36KB | 1 | 36KB | 36KB |
| users | 10 | 2.15KB | 221B | 36KB | 1 | 36KB | 36KB |

5.3.3 Mongodb atlas

- MongoDB Atlas is a fully managed cloud-based database service offered by MongoDB
- MongoDB Atlas runs on Amazon Web Services, Microsoft Azure, and Google Cloud Platform.
- It allows users to deploy, manage, and scale MongoDB databases with ease.

5.4 BOOK CAB PAGE

The screenshot shows the homepage of the 'Smart Cab Point' website. The header includes the logo 'Smart Cab Point', navigation links for Home, About, Service, Contact, and a 'Book Cab' button. The main banner features a city street scene with yellow taxis and the text 'Book Cab Now'. Below the banner, a yellow bar says 'Welcome To Our Website!'. The 'Online Booking' section has a dark background and white text, prompting 'Book Your Taxi'. It contains several input fields: a text input for 'chintanpatel', an email input for 'imchintan0207@gmail.com', and a number input for '7624041844'. There are dropdown menus for 'Suv Taxi', '2', and 'djmit'. Date and time inputs show '06-05-2023' and '04:59'. At the bottom is a large yellow 'Submit' button.

fig 5.4.1 book cab page

The screenshot shows the MongoDB Atlas interface. On the left, there's a sidebar with a 'Create Database' button and a search bar for namespaces. Below that, a tree view shows databases: 'mycab' is expanded, showing 'cabuser' and 'users'. Other databases listed are 'sample_airbnb', 'sample_analytics', 'sample_geospatial', 'sample_guides', 'sample_mflix', 'sample_restaurants', and 'sample_supplies'. The main panel is titled 'mycab.users' and shows storage details: 'STORAGE SIZE: 36KB', 'LOGICAL DATA SIZE: 915B', 'TOTAL DOCUMENTS: 4', and 'INDEXES TOTAL SIZE: 36KB'. It has tabs for 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', and 'Search Indexes'. A large button at the top right says 'INSERT DOCUMENT'. Below these are buttons for 'Filter' (with a dropdown), 'Type a query: { field: 'value' }', 'Reset', 'Apply', and 'More Options'. A preview window displays a single document:

```

_id: ObjectId('6452d24fab36331c3088314b7')
name: "chintanpatel"
email: "imchintan6207@gmail.com"
mobile: "7624041844"
pickuppoint: "djmit"
droppoint: "vadodara"
pickupdate: "2023-05-06"
pickuptime: "04:59"
selecttaxi: "Suv Taxi"
numofpass: "2"
__v: 0
  
```

fig 5.4.2 book data store in Mongodb atlas

- Book Page has the TaxiBookform.js component which include form and form includes the field such as name, email, mobile no, type of taxi, no. of passengers select field, enter start and end location field, date and time select field.
- Each input has required validation given by JavaScript using the Formik and yup.
- Formik and yup are open-source libraries that work together to simplify form handling and validation in React applications.
- Using this form component user booking the cab and got the conformation message and get the booking information.
- This page also has type-writer effect in heading above the booking form.

5.5 ABOUT US PAGE

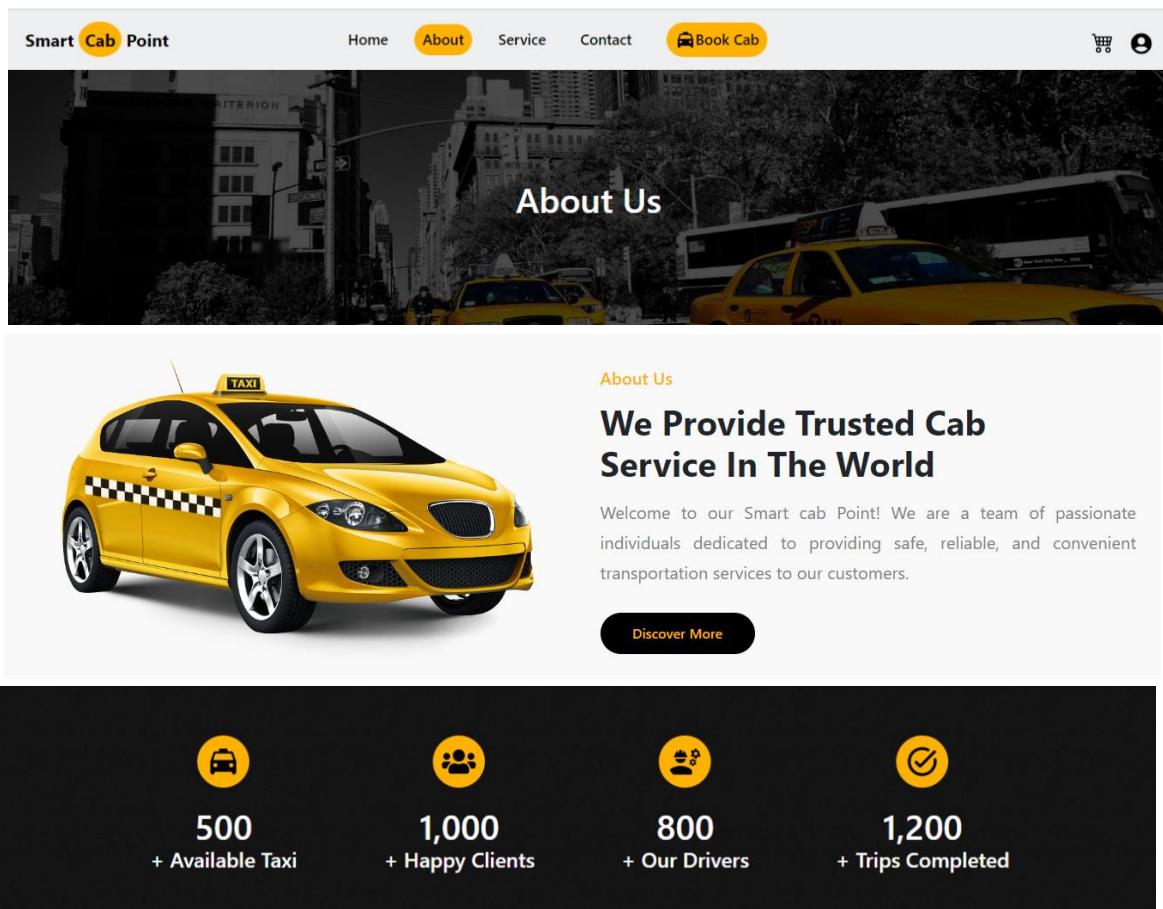


Fig 5.5.1 about page

- About us page includes the details about the Smart cab point and also has component of the count up the number of the available taxi, happy client, our drivers and trips complete etc.
- This include using the count-up npm.

5.5.1 Other Component of the About Page

- Other component includes the Team of smart cab taxi drivers. These driver cards also created with json data through api calling.
- These drivers' cards have contact details of the drivers.

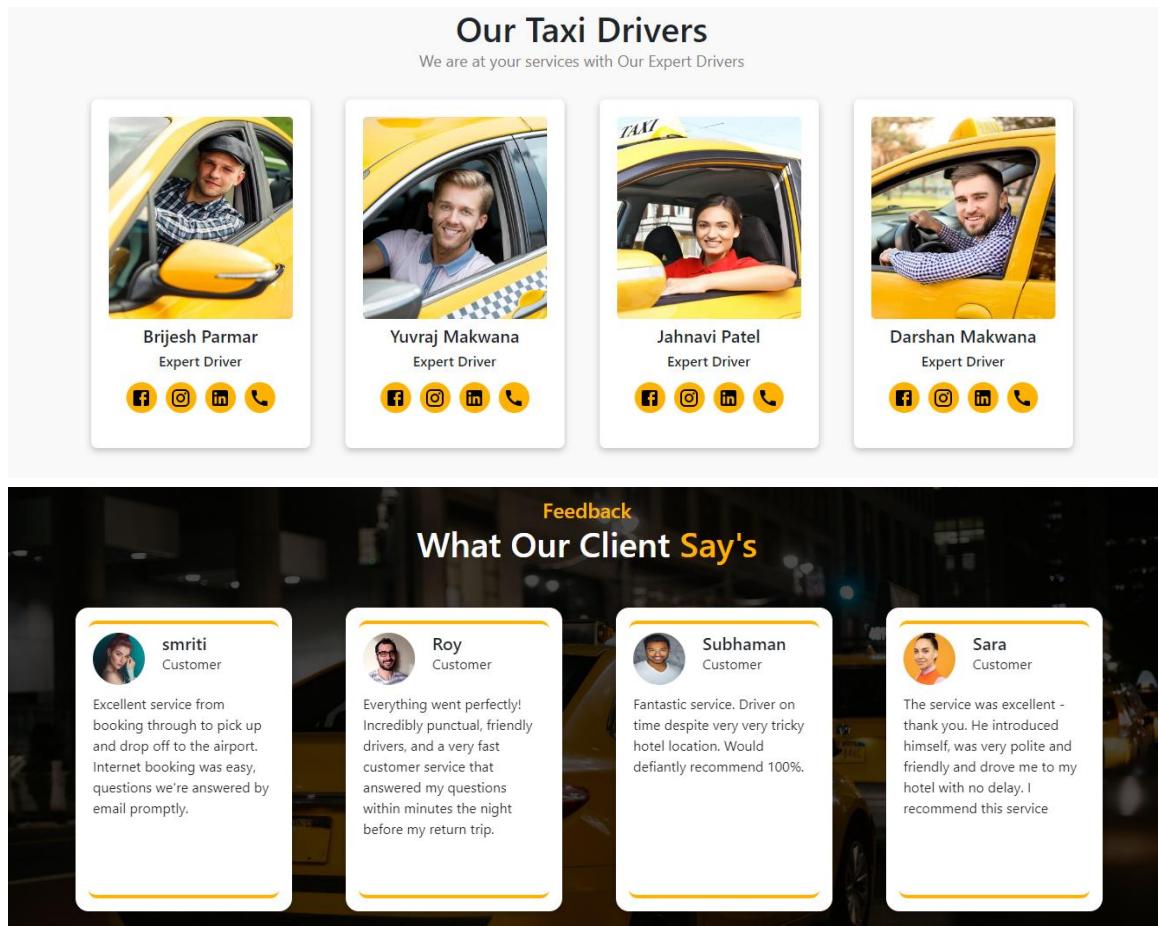


Fig 5.5.2 about feedback comp.

- This page also includes the feedback of our client component.
- Feedback or reviews: Share some feedback or reviews from satisfied customers. This can help to build trust with potential customers and demonstrate the value of the cab booking service.
- Customer feedback slider created using the react-multi-carousal npm and creating responsive slider.
- And slider also custom by some modification in component.

5.6 CONTACT PAGE

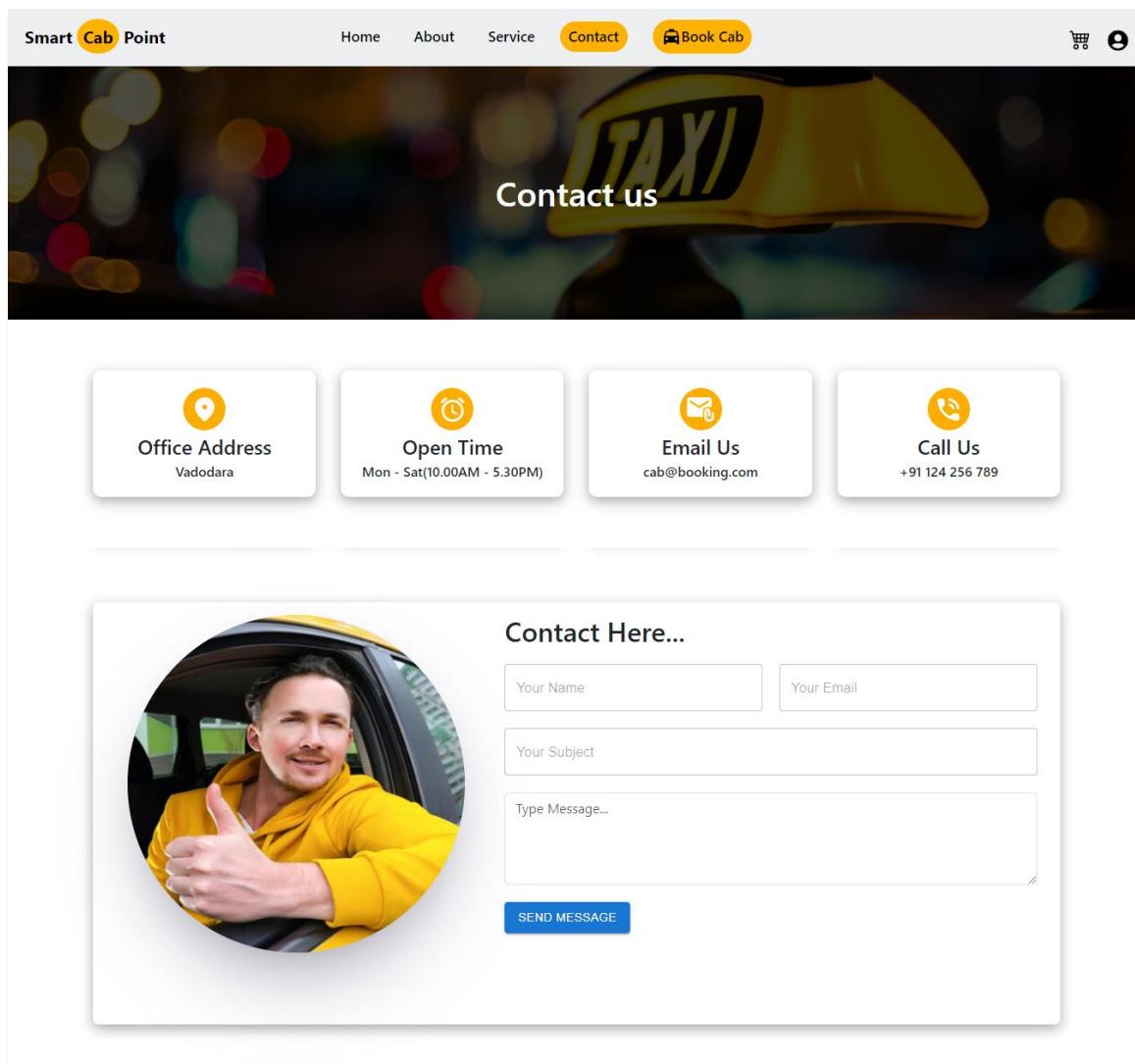


Fig 5.6.1 contact page

- The Contact page on a cab booking website is an important section that provides information about how customers can get in touch with the company.
- This Contact form also includes some details like office address, open time Email address, phone no etc.
- The feedback of customer also stores in Mongoddb atlas.
- Overall, the contact page should provide customers with a variety of ways to get in touch with the company, whether they have a question, concern, or feedback. It's important to make the contact process as simple and convenient as possible.

5.7 SERVICE PAGE

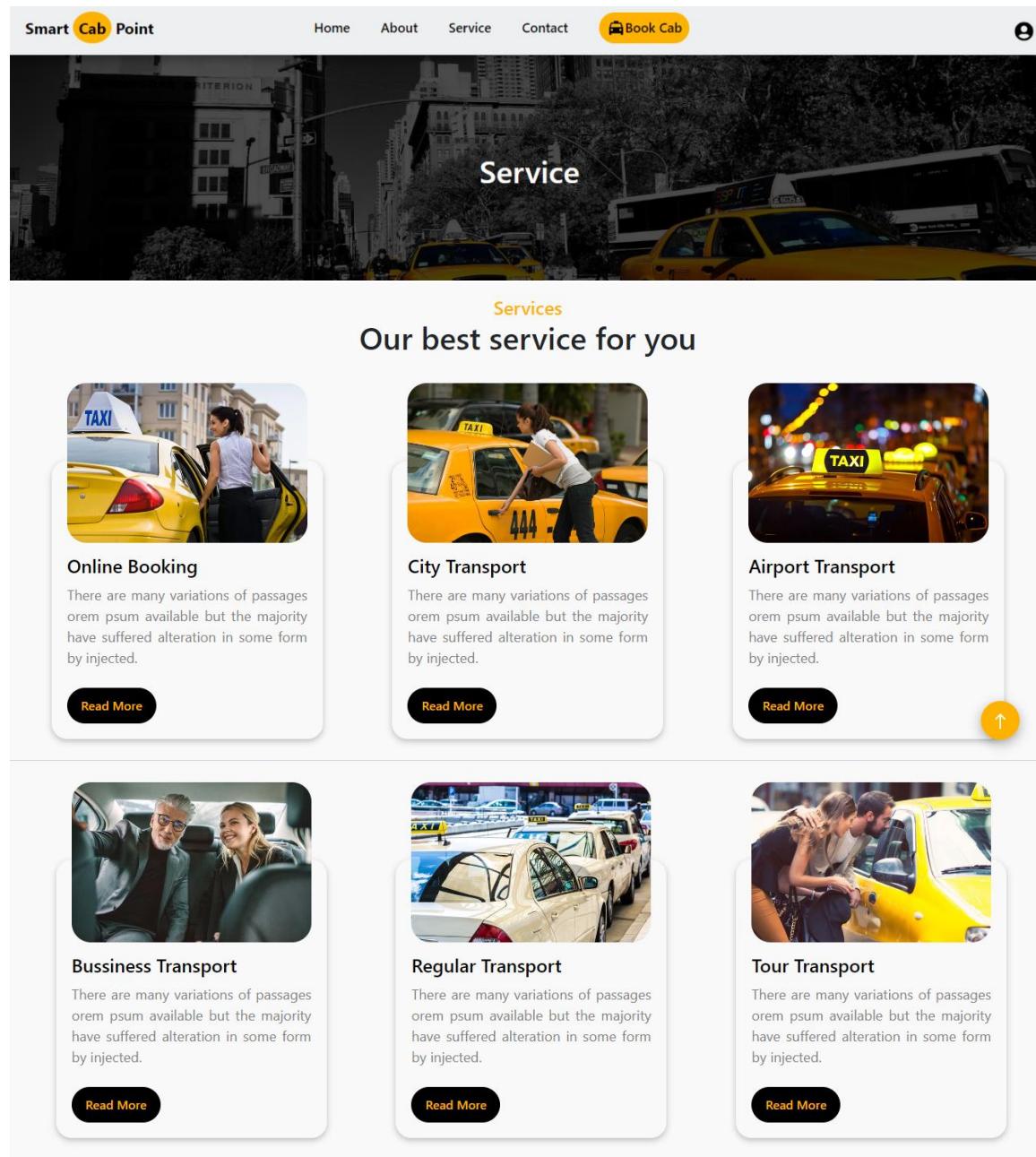


Fig 5.7.1 service page

- The service page on a cab booking website is an important section that provides detailed information about the services offered by the company.
- The different type cards creating and manage by grid css.
- This component shows the service which provide by smart cab point.

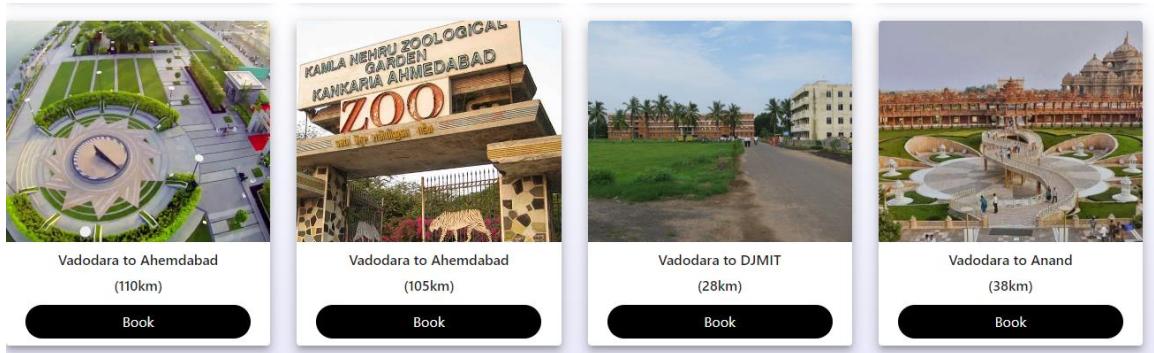


Fig 5.7.2 trip cards

- This is the component of the trip cards by place cards you can choose your place for trip and book cab from that and check the Price also.

5.8 FOOTER PART

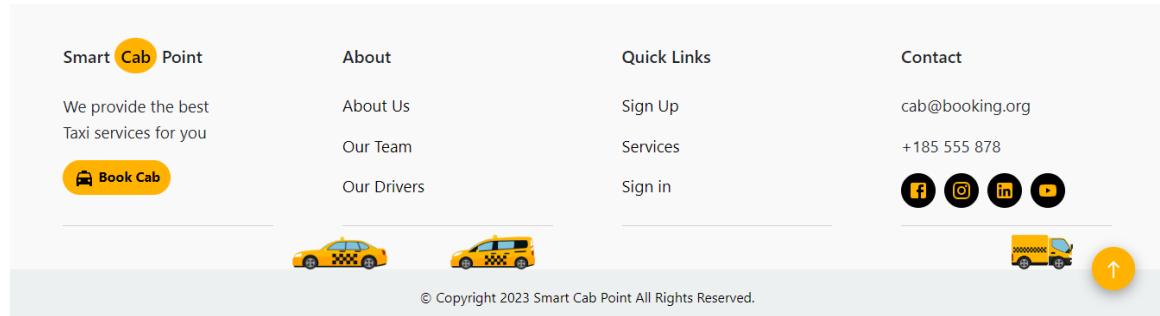


Fig 5.8.1-footer part

- The footer part of smart cab point includes the quick links of the pages such as login page, register page, booking cab page, contact us page, social media link etc.
- When click on the arrow icon which place on bottom-right screen scroll to top smoothly.
- In the bottom the footer part has copyright part and also have moving taxi-animation for the attractive user interface using animation css.

5.9 MOBILE VIEW & TABLET VIEW

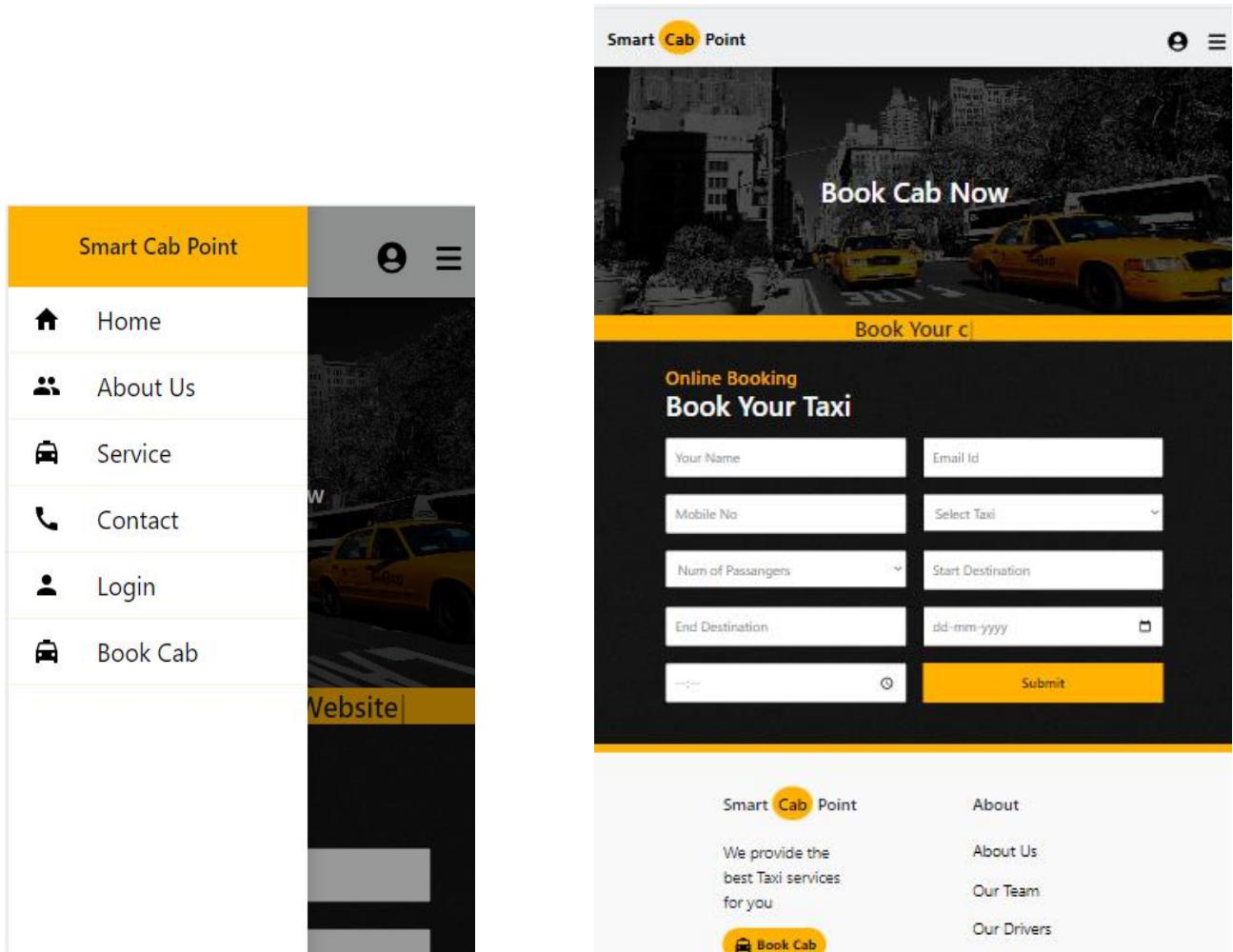


Fig 5.9.1 mobile & tablet view

- The Smart Cab Point website responsive in all devices such as mobiles, laptops, and Tablets. By using media query this was possible.

CHAPTER 6: TESTING

6.1 THE IMPORTANCE OF TESTING

Testing is an essential part of software development that ensures the quality, reliability, and functionality of a product. It is important because it helps identify bugs, errors, and defects in the system.

Testing also helps to improve the overall user experience by identifying areas of the product that could be improved or optimized. In addition, testing helps to reduce the cost of development by identifying issues early on in the process, before they become more costly to fix.

6.2 TESTING STRATEGY

A testing strategy is a systematic approach that outlines the testing approach, methodologies, tools, and resources required to verify the functionality, performance, and quality of a software application.

6.2.1 UNIT TESTING

Unit testing involves testing individual units of code, such as functions or classes, in isolation to ensure they are functioning correctly. The goal is to identify and fix bugs early in the development process. Unit tests can be automated, and test frameworks like Jest or Mocha can be used for this type of testing.

6.2.2 INTEGRATION TESTING

Integration testing verifies that the different components of the app are working together correctly. This type of testing is done after unit testing and involves testing the interaction between components. Automated testing tools such as Cypress or Selenium can be used for integration testing.

6.2.3 PERFORMANCE TESTING

Performance testing ensures that the app can handle a high volume of traffic and requests without slowing down or crashing. This type of testing is done to identify bottlenecks in the system and optimize its performance. Tools such as LoadRunner or JMeter can be used for performance testing.

CHAPTER 7: CONCLUSION

7.1 ANALYSIS / SUMMARY OF INTERNSHIP

To summarize, this internship was a very fruitful one. During my internship, I worked on developing a booking cab app using the MERN stack. The objective of the project was to create an app that allows users to book taxis or cabs online using their computers, laptops or mobile devices. A smart cab booking website typically includes features user registration, allowing users to sign up, log in, and manage their bookings.

To achieve this, I first created two websites as tasks for learning basics and important concepts of HTML, CSS, JavaScript. Then I learn and implement the full-stack cab booking website.

Throughout the development process, I followed a rigorous testing strategy that involved unit testing, integration testing, and performance testing. This helped to ensure that the app was functioning as expected and provided a seamless user experience.

Overall, my internship on the cab booking app allowed me to gain valuable experience in developing a full-stack web application using modern technologies, as well as in software testing and analysis. I am confident that the app I developed provides a valuable service to users looking to book taxis, and I am proud of the work that I have accomplished during my internship.

7.2 DATES OF CONTINUOUS EVALUATION

7.2.1 Continuous Evaluation I

The first internship evaluation was held on 28th Feb 2023, where the students of 8th semester showcased the initial work done in their respective companies.



Fig 7.2.1 CE-1

7.2.2 Continuous Evaluation II



Fig 7.2.2 CE-2

On 15th April 2023, the 8th semester students had their second internship evaluation where they presented the projects that they have individually worked upon so far. They were also instructed on the report preparation guidelines.

7.2.3 Continuous Evaluation III



Fig 7.2.3 CE-3

3rd Internship Evaluation Presentation was held on 4th May 2023. Students of 8th Semester 2022-2023 and Reviewed there Internship work and ppt, gave final remarks and some improvement on the Reports. And gave Instruction about the Report Preparation of the Internship.

CHAPTER 8: APPENDICES

WEEK 1:



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Annexure 1

Enrollment no:

190820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan Harshadhbhai Patel

DIARY OF THE WEEK: Dt: 06/02/23 to 11/02/23

DEPARTMENT: Information Technology SEM: 8

NAME OF THE ORGANISATION: V-Ex Tech solution

NAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agarwal

DESCRIPTION OF THE WORK DONE IN BRIEF

- Introduction of ReactJS and HTML,CSS and JavaScript and also introduce using tools for programming and complete the installation process.
- Give a basic task of student Registration form for check my level or knowledge about HTML,CSS.
- Learn form and table related tags like <input type=" " > , <tr> <td> , <th> etc.
- Complete the task of student Registration form.
- Learn about flexbox and its property and How to use flexbox in web-design and create a navbar using flexbox.
- And Also learn different types of CSS property. Learn How to use dropdown menu in subnav and add the dropdown in subnav when a hover the container.
- use <table> tag in the task of dropdown in subnav.



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TOTAL HOURS: 30

C.H.Patel
 SIGNATURE OF STUDENT

The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE (POOR)


 Signature of Faculty Mentor

Date: ૧૦/૦૮/૨૩

Date: ૧૦/૦૮/૨૦૨૩



Signature of Officer-in-Charge
 of Dept./Section/Plant

★ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.

WEEK:2



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Annexure 1

Enrollment no:
190820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan Hiteshbhai Patel

DIARY OF THE WEEK: Dt: 13/02/23 TO 18/02/23

DEPARTMENT: Information Technology SEM: 8

NAME OF THE ORGANISATION: V-Ex Tech solution

NAME OF THE PLANT/SECTION/DEPARTMENT: Full-Stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agarwal

DESCRIPTION OF THE WORK DONE IN BRIEF

- start the task of create landing page of foodshop.
- learn more about HTML and CSS for landing page of foodshop.
- learn about adding icon using external link. add the icon, creating navbar, add header, footer, idiv, using flexbox, adding acquired images, buttons, create logo of foodshop.
- complete the task of foodshop.
- learn how to create card, profile card, product card etc) and how to flip the card when hover the cursor on card using CSS.
- start the learn Javascript and learn basic of Javascript.



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TOTAL HOURS: - 30 -----

C.H.Patel
 SIGNATURE OF STUDENT

⦿ The above entries are correct and the grading of work done by Trainee is
 EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

V-FEX TECH
 Signature of Officer In-charge
 of Dept./Section / Plant

Date: 17/02/23

Date: 17/02/23

⦿ Grading of Work, for trainee may be given depending upon your judgement about
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WEEK 3:

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Annexure 1

Enrollment no:
19082016009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan Harshudhbhai Patel

DIARY OF THE WEEK: Dt: 20/02/23 TO 25/02/23

DEPARTMENT: Information Technology SEM: 8

NAME OF THE ORGANISATION: V-EX Tech Solution

NAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agarwal

DESCRIPTION OF THE WORK DONE IN BRIEF

- Using the javascript Event and JS functions start the task of creating image slider.
- Learn about to change image using event in slider and also create custom image size using canvas and completed the task of slider.
- Using the position CSS property and placed the card on slider image.
- Start the task of creating popup of user login and signup. complete the popup user login and signup from task.
- Give the required validation in input using JS like for Email - whitespace not allowed, @ is important etc.
- Also give validation in Mobile No, password, confirm password field.
- Learn and used onkeyup event in form validation task using JavaScript.



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TOTAL HOURS: 30

C.H.Patel
SIGNATURE OF STUDENT

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EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Date: 24/02/23Date: 24/02/23

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WEEK 4:

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Annexure 1

Enrollment no:
140820116009**STUDENT'S WEEKLY RECORD OF INTERNSHIP**NAME OF STUDENT: Chintan H. PatelDIARY OF THE WEEK: Dr: 27/12/23 to 5/1/23DEPARTMENT: Information Technology SEM: 8NAME OF THE ORGANISATION: V-Ex Tech SolutionNAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developerNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agrawal**DESCRIPTION OF THE WORK DONE IN BRIEF**

- complete the installation of node.js and npm for website and run ReactJS.
- learn ReactJS basics such as JSX, component creation and how to import and export component in others.
- learn how ReactJS works and how to render app.
- learn ReactJS function component such as React Arrow function, class-based function etc.
- create component and import and export component in others.
- And practice the basic task of ReactJS.
- learn different type of NPMs (node package manager)



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TOTAL HOURS: 30

C.H.Patel
 SIGNATURE OF STUDENT

⦿ The above entries are correct and the grading of work done by Trainee is
EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Ram
 Signature of Faculty Mentor

Date: 4/3/23



Date: 4/3/23

⦿ Grading of Work, for trainee may be given depending upon your judgement about
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WEEK 5:



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Annexure 1
 Enrollment no:
190820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan H. Patel

DIARY OF THE WEEK: Dt: 6/3/23 TO 12/3/23

DEPARTMENT: Information Technology SEM: 8

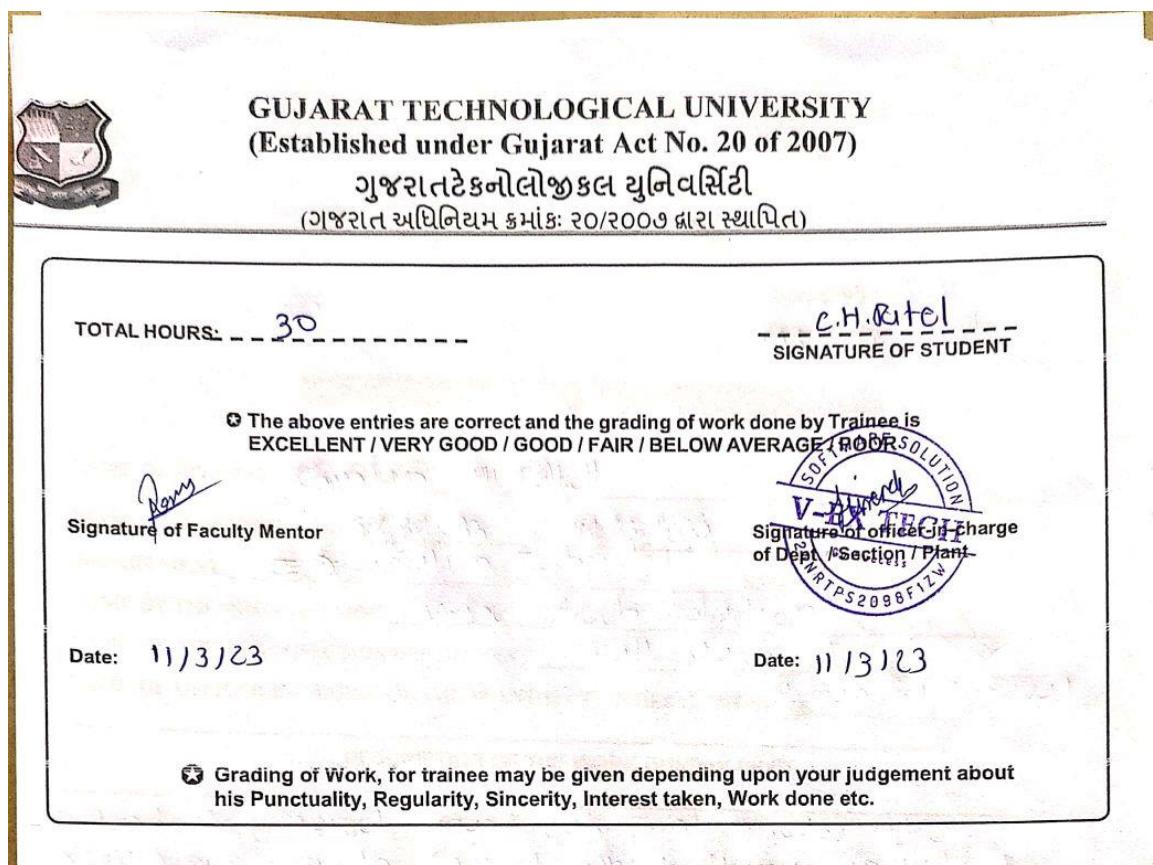
NAME OF THE ORGANISATION: V-Excel tech solution

NAME OF THE PLANT/SECTION/DEPARTMENT: full stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himunshu Agrawal

DESCRIPTION OF THE WORK DONE IN BRIEF

→ Start the project smart cab point discuss the requirement of the project which things include
 → Install react-icons npm (node Package Manager) and learn how to use npm
 → Create separate component of navbar
 → Using react-multi-carousel npm learn about creating different slider features
 → Create required slider component and add it also make it responsive
 → install react-router-dom npm using Router, Route, Route, Link etc
 → completed the routing in navbar.



WEEK 6:

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Annexure 1

Enrollment no:
19080116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan H. Patel

DIARY OF THE WEEK: Dt: 13/3/23 TO 19/3/23

DEPARTMENT: Information Technology SEM: 8

NAME OF THE ORGANISATION: V-Fit Tech Solution

NAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himunshu Agarwal

DESCRIPTION OF THE WORK DONE IN BRIEF

- Learn about how to use props and pass the props in component.
- Install the react ui tools ; material ui npm for using material ui , icons , components and many more
- Learn more components in and how to change it's colour , size ,
- Learn about how to create booking taxi form and also learn how material ui npm using in creating website.
- Acquired element such as , textfield , Radio button , dropdown for creating bookform creating taxi booking form .



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TOTAL HOURS: - 30 -----

C.H. Patel
 SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR

Signature of Faculty Mentor

Date: 18/3/23



- ⦿ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.

WEEK 7:



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Annexure 1

Enrollment no:
140820116009**STUDENT'S WEEKLY RECORD OF INTERNSHIP**NAME OF STUDENT: chintan H. Rtc1DIARY OF THE WEEK: Dt: 20/3/23 TO 26/3/23DEPARTMENT: I.T. SEM: 8NAME OF THE ORGANISATION: U-EC Tech solutionNAME OF THE PLANT/SECTION/DEPARTMENT: full-stack developerNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himunshu Agrawal**DESCRIPTION OF THE WORK DONE IN BRIEF**

- learn the reactJS Hooks such as useState, useEffect, useReducer etc.
- complete the practice task of hooks
- install formik and yup NPM for the form validation
- using formik and yup schema give validation to form
- completed the responsive Booking form
- Give Housing to type-writer effect using type-writer NPM
- learn how to handling events in ReactJS
- After giving validation when click or submit detail by button also display the details.



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TOTAL HOURS: 30

C.H.Patel
 SIGNATURE OF STUDENT

⦿ The above entries are correct and the grading of work done by Trainee is
 EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR


 Signature of Faculty Mentor



Date: 25/3/23

Date: 25/3/23

⦿ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.

WEEK 8

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Annexure 1
 Enrollment no:
140820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan H. Patel

DIARY OF THE WEEK: Dt: 27/3/23 TO 24/3/23

DEPARTMENT: Information Technology SEM: 8

NAME OF THE ORGANISATION: V-Ex-Tech-solution

NAME OF THE PLANT/SECTION/DEPARTMENT: full-stack developer

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agrawal

DESCRIPTION OF THE WORK DONE IN BRIEF

- give the functionality to login user icon to route the login page.
- create login and register page for user.
- using formik and yup schema also giving validation to those pages.
- learn different type API calling in ReactJS
- first Axios method external file using link.
- second fetch data with JSON file.
- calling cards with API in service component using grid less.



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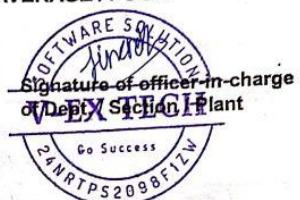
TOTAL HOURS: 30

C.H.MTC
 SIGNATURE OF STUDENT

- ⦿ The above entries are correct and the grading of work done by Trainee is EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR


 Signature of Faculty Mentor

Date: 1/14/23



Date: 1/14/23

- ⦿ Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.

WEEK 9:



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Annexure 1

Enrollment no:
140820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIPNAME OF STUDENT: Chintan Harshadbhai PatelDIARY OF THE WEEK: Dt: 3/4/23 TO 9/4/23DEPARTMENT: Information Technology SEM: 8NAME OF THE ORGANISATION: V-Esc Tech solutionNAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developerNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agarwal**DESCRIPTION OF THE WORK DONE IN BRIEF**

- Create the contact component which include contact information such as Address, Email, Phone.
- This component also have send message to the Admin functionality.
- Learn how to giving routing using express.js
- After completed the responsive nav give functionality when user click on menu open the drawer.
- For that learn different type drawer in material ui and drawer using react modern drawer npm practice that
- Add drawer using react drawer npm and also use the scrollbyjs npm for scrollby.



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TOTAL HOURS: 30

C.H. Patel
 SIGNATURE OF STUDENT

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Signature of Faculty Mentor



Date: 8/14/23

Date: 8/14/23

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WEEK 10:

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Annexure 1

Enrollment no:
190820116009**STUDENT'S WEEKLY RECORD OF INTERNSHIP**NAME OF STUDENT: Chintan H. PatelDIARY OF THE WEEK: Dt: 10/4/23 TO 16/4/23DEPARTMENT: Information Technology SEM: 8NAME OF THE ORGANISATION: V-EX Tech solutionNAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developerNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu Agarwal**DESCRIPTION OF THE WORK DONE IN BRIEF**

- Create the About component which include about our company details, our team, drivers etc.
- In about component using API and JSON file create multiple cards.
- Learn count up npm and used in the about page.
- Create footer component which include quick links, contact details and social media icons.
- Learn how the search suggestion Appear using map() and filter()
- Learn some Animation CSS and add moving-tuxi Animation in footer component.



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TOTAL HOURS: - 30 -----

C.H.Patel
 SIGNATURE OF STUDENT

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Signature of Faculty Mentor

Date: 15/4/23



Date: 15/4/23

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WEEK 11:

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Annexure 1

Enrollment no:
190820116009**STUDENT'S WEEKLY RECORD OF INTERNSHIP**NAME OF STUDENT: Chintan Hrushabhhai PatelDIARY OF THE WEEK: Dt: 17/04/23 TO 22/04/23DEPARTMENT: Information Technology SEM: 8thNAME OF THE ORGANISATION: V-Ex Tech solutionNAME OF THE PLANT/SECTION/DEPARTMENT: Full-stack developerNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu sir**DESCRIPTION OF THE WORK DONE IN BRIEF**

- Add more component in Home page such as lost things step , Available taxi component which show required details.
- Add acquired component in all page based on requirement
- After complete the the front-end worked on back-end.
- Learn the MongoDB compass and MongoDB Atlas
- Learn the CURD operation in MongoDB.
- Learn how to connect the ~~local~~ local database and how to connect the front-end with MongoDB cloud with Atlas.
- Learn more in node.js and express.js and learn How to use nodemailer for sending mail.



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TOTAL HOURS: 30

C.H.Patel
 SIGNATURE OF STUDENT

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Signature of Faculty Mentor

Date: 22/04/23



Date: 22/04/23

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WEEK 12:



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Annexure 1

Enrollment no.:

140820116009

STUDENT'S WEEKLY RECORD OF INTERNSHIP

NAME OF STUDENT: Chintan Harshadbhuj PatelDIARY OF THE WEEK: Dt: 24/4/23 TO 30/4/23DEPARTMENT: Information Technology SEM: 8thNAME OF THE ORGANISATION: V-Biz TechNAME OF THE PLANT/SECTION/DEPARTMENT: FULL-STACK DEVELOPERNAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: Himanshu sir.

DESCRIPTION OF THE WORK DONE IN BRIEF

- complete the setup in mongodb atlas and learn how to add data in mongodb.
- Learn about the how to use mongoDB, how to execute server and request, response in server
- All the things learn or acquired was applied in smart web point project.
- complete the login process and project also store the register data of the user.
- The Booking form data also stored in database and then the how to sent message with nodemailer.
- Implementation of project completed by me.



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TOTAL HOURS: 30

C.H.Patel
 SIGNATURE OF STUDENT

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Signature of Faculty Mentor



Date: 30/04/23

Date: 30/4/23

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REFERENCE

- **React Js Documentation:** <https://reactjs.org/docs/getting-started.html>
- **React Router DOM :-** <https://reactrouter.com/en/main/start/tutorial>
- **Nodejs :-** <https://nodejs.org/en>
- **Mongo DB:-** <https://www.mongodb.com/>
- **Material Ui:** <https://mui.com/>
- **React icon:** <https://react-icons.github.io/react-icons/>
- **Formik :** <https://formik.org/docs/guides/validation>
- **Yup :** <https://www.npmjs.com/package/yup>
- **W3school:** <https://www.w3schools.com/>
- **Website:** <https://V-Ex Tech software solution>