

React Developer

An internship Report for

Course Code and Course Title:

Credits:16

Submitted in partial fulfillment of MCA Degree

In Computer Science

By

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**GOA UNIVERSITY
Date:**

Examined by:

Seal of School

DECLARATION BY STUDENT

I hereby declare that the data presented in this Internship report entitled, “React Developer” is based on the results of investigations carried out by me in the Computer Science at the INFIPRE IT SERVICES PVT LIMITED Company under the Supervision of Ms Gauravi Sawaikar and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities/College will be not be responsible for the correctness of observations / experimental or other findings given the internship report/work.

I hereby authorize the University/college authorities to upload this dissertation on the dissertation repository or anywhere else as the UGC regulations demand and make it available to any one as needed.

Date:

Place:Goa University

A.M.B
(Anushri Bhagat)

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COMPLETION CERTIFICATE

This is to certify that the internship report *React Developer* is a bonafide work carried out by **Ms** Anushri Mohandas Bhagat under my mentorship in partial fulfillment of the requirements for the award of the degree of **post graduation** in the discipline MCA at the Goa Business School , Goa University.

Date: *24/05/2024*

J. Sawaikar
(*Gauravi Sawaikar*)

School/Department Stamp

Signature of Dean Of School Date:

Place: Goa University

Acknowledgement

I would like to express my sincere gratitude to everyone who has contributed to the successful completion of my internship.

First and foremost, I am deeply grateful to Infipre It Services for providing me with the opportunity to undertake this internship. My heartfelt thanks go to Gauravi ma'am my supervisor, for their invaluable guidance, support, and mentorship throughout my time at the company. Their insights and expertise have greatly enriched my learning experience.

I am also thankful to all the team members and colleagues at [Company Name] for their assistance and encouragement. Their willingness to share their knowledge and experiences has been incredibly beneficial and has made my internship truly rewarding.

Finally, I would like to thank my family and friends for their unwavering support and encouragement throughout this journey. Their belief in my capabilities has been a constant source of motivation.

Thank you all for making this internship a memorable and valuable learning experience.

CHAPTER 1:ORGANIZATION/COMPANY

The company where I did my internship is INFIPRE IT SERVICES PVT LMT a startup company which is based in sakhalim , Goa .
Founded in May 2017 which is aimed for providing various It services to the clients and other It organizations.

1.1 Birds-Eye-View

A birds eye view provides an overview of its various components and how they interact.

1.1.1 Organizational Structure

Executive leadership

- CEO

Departments

- **Development**
Software Developers
Quality Assurance Teams
- **Product Management**
Product Manager
- **Sales and Marketing**
Sales Executives
Marketing Specialists
- **Human Resources**
Recruiters
HR Managers
- **Finance**
Accountants
Financial Analytics

Core Activities

- **Product Development**
Requirement Gathering,coding,Testing and deployment.
- **Service Delivery**
Managed services,It support,Consulting.

Technology And Tools

- **Development**

Programming languages(HTML,CSS,JAVASCRIPT,PHP,etc)

Development Framework(Ex React,Laravel).

1.2 Products and Services

They provide wide variety of IT services .Such as

- Web Development
- Mobile Development
- UI/UX Design
- QA & Testing
- It Consultancy
- Dedicated Team

Some of their Previously Developed Projects are

- Scrappy
- Samjhota Matrimony
- Markgeni
- DotorKey
- LMS
- Eorders

CHAPTER 2: TASKS HANDLED

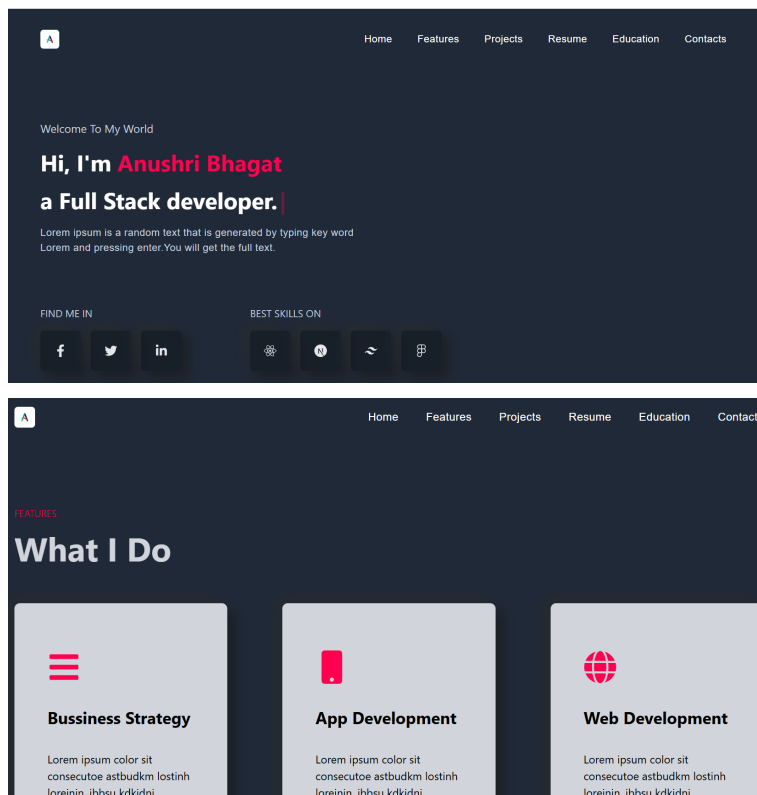
2.1 Sections I worked In

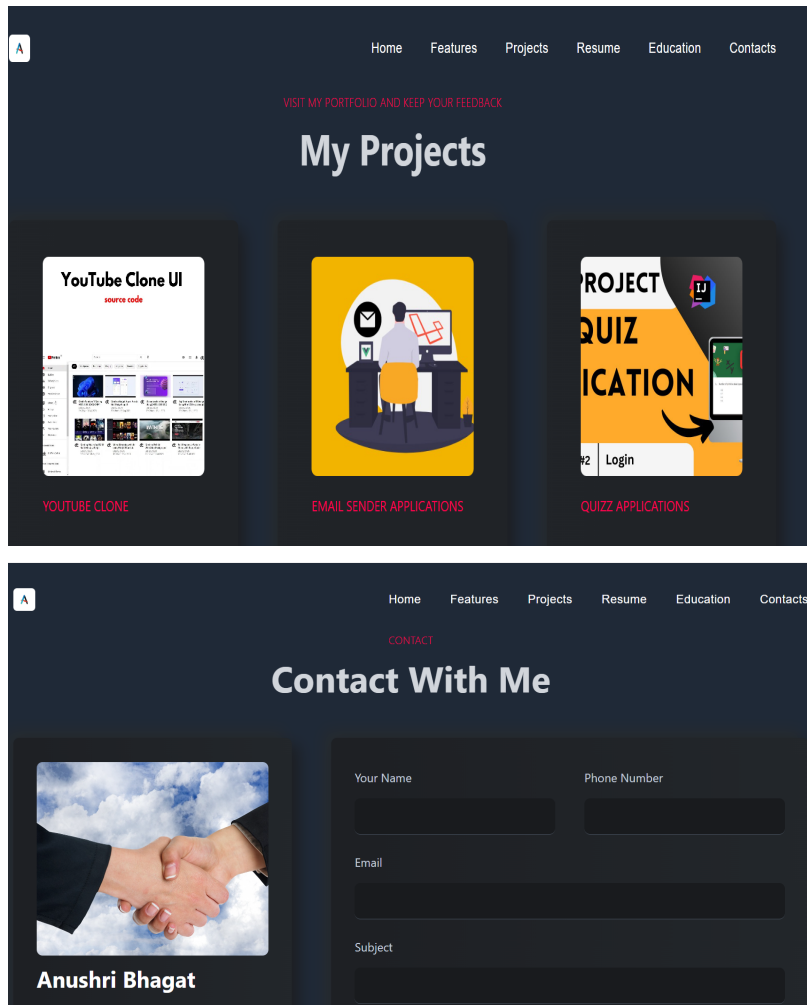
I joined Infipre It Services as a React Developer Intern. I was given the tasks to design and develop UI functionalities of a page using react. I had to write code for different components in react so that my code will be reused in some other application.

2.2 Types of Tasks I was Exposed to

2.2.1 Profile page using html, css, javascript.

A simple interface was created using html, css and bootstrap grid properties.



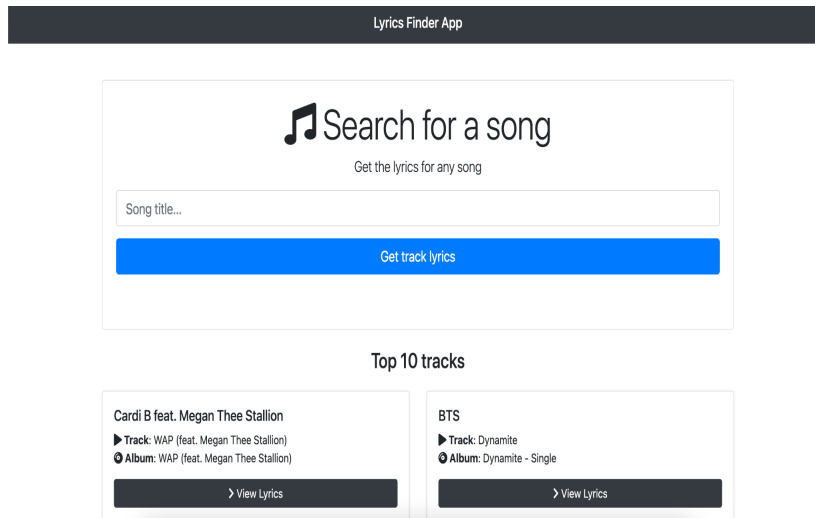


2.2.2 React Audio Player

My second task was to create an audio player and play the audio clip in the React New window . It was created using React audio player.

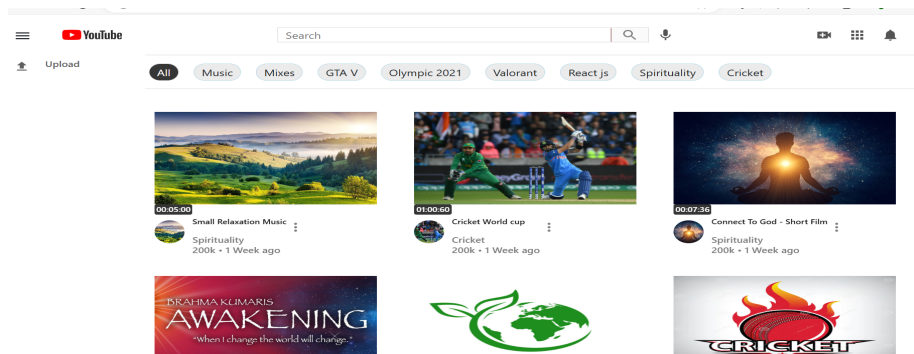
2.2.3 Lyrics Finder Application

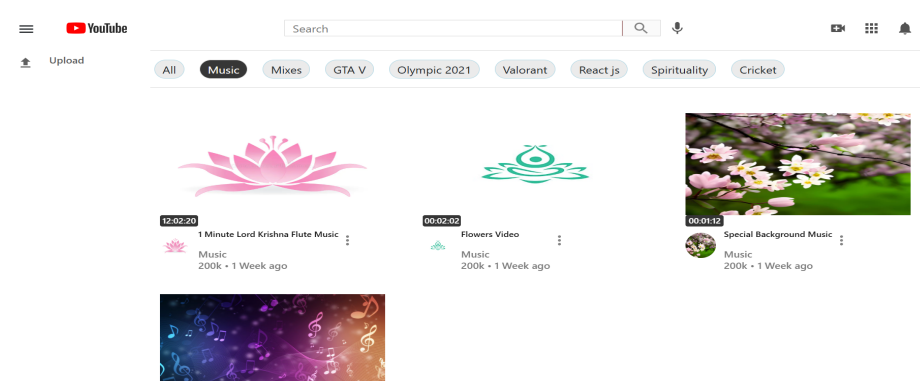
My Third task was to develop a Lyrics Finder Application using React.This application is used to find song lyrics based on the name of the song.In this application you can also add new songs by adding the name of the song, Album , Singer ,Title track etc . I have used json server api to store and fetch the data in a json file.



2.2.4 Video Uploader

My fourth application was to develop an application wherein it allows the users to upload video and have the functionality of playing that video on the user screen . In this application I have used react library for designing the UI and Firebase firestore to store the images , text and for storing video link , Firebase firestore is being used.





In the above you can filter the videos based on the type by clicking on the type. And those videos will only appear on the screen.

Name of the Video

Duration Of the Video

Type Of the Video

Upload Image file

No file chosen

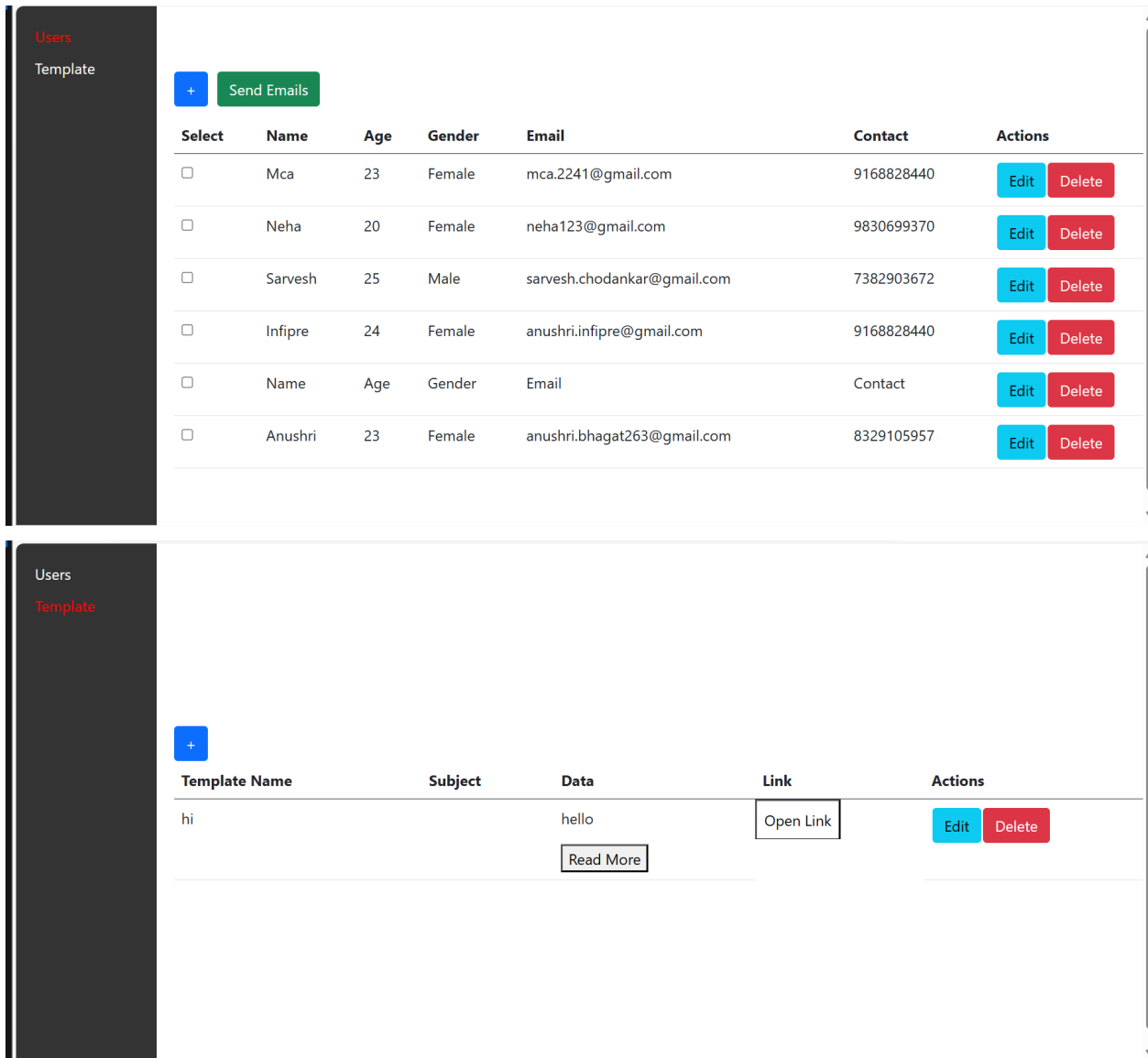
Upload Video file

No file chosen

You can upload the video by clicking on Upload link from the home page . It will then navigate you to the above upload page where you enter the data of the video such as name of the video, Type of the video, Duration and upload the video file which is then stored them to firebase database from which the video along with the data is retrieved and displayed on the home page .

2.2.5 Bulk Email Sender

A bulk Email sender is a web application that allows users to send emails to multiple recipients simultaneously. This is completely a client side application. It consists of a front end build using React for User Interface and I have used an email sending service known as “Emailjs” service for sending mails to the recipients email ids.



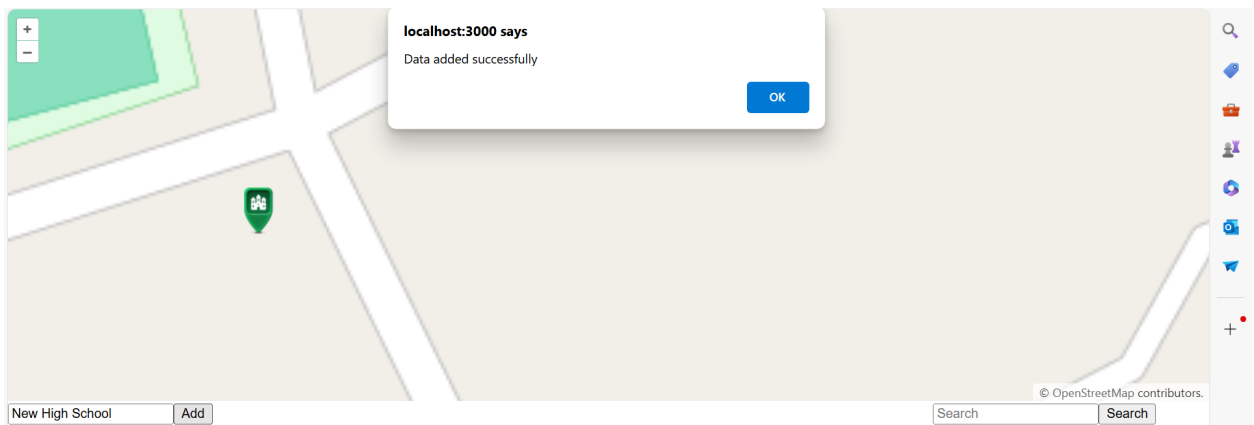
2.2.6 Integrating Google maps and adding new location to the map

This application involves integrating Google Maps into React application and allowing users to add new locations , involves several steps , including the setting up google maps api key , creating a map component and implementing the functionality to add markers.

The above application has mainly two features.

1. To add new locations to the map.

2. To update the location and store it in the json server.



2.2.7 Quiz application

This web application provides a facility for setting a quiz for candidates to answer , evaluate their score and sending them their results through mails.

Technology used

This is a front-end application build using html,css and React.

Json server is used for storing quiz, questions and candidates data.

Emailjs an email sending service is used for sending emails to the candidates.

Targeted Audiences

Admin:- Admin plays a main role of setting a quiz in this application.He can add the question , question Type, select the category of the questions and marks allotted to each question. He can set the quiz set by selecting the number of questions of each category .

He can send mails to the candidates with unique code and quiz Link to answer the quiz.

User:- He can enter his credentials and answer the quiz. Finally , he can view his total score as well as the answer sheet through mails.

Scope

This application has limited scope. This can be used by companies for recruiting candidates for placements by taking online quizzes.

This application can also be used in educational institutions especially by teachers/Professors to evaluate their students' performance by taking tests and evaluating their score.

Admin Dashboard

This is the question section wherein the user can add question type, enter question ,select category of that question , allot marks to the question and send the question to the server by clicking on submit button .

DashBoard ☰

Questions

Categories

Quizz

Publish

Questions

Select Question Type ▼

Enter Question*

Normal B I U 🔗 ☰ ☰ 🔗

Select Category*

Select Category ▼

Enter Marks*

Enter Marks

Reset Submit

QuestionType

There are 4 types of questions included in this application:- (MCQ ,True OR False, Fill In the blanks and Single Word Answer).

When the admin selects multiple choices as the question type , 4 fields get generated to allow the admin to add options. When he selects True Or False , two radio buttons get generated. As shown in the image below .

DashBoard ☰

Quiz

↑ Publish

Multiple Choice

Enter Question*

Normal B I U

Select Category*

Select Category

Options*

Option 1

Option 2

Option 3

Option 4

Answer*

Answer

True Or False

Enter Question*

Normal B I U

Select Category*

Select Category

☐ True ☐ False

Enter Marks*

Enter Marks

Reset Submit

Adding Category

In the application , admin can add the categories of the question that he wants to add in his application .For example History, Geography , General Knowledge etc.

localhost:3000/Dashboard

DashBoard ☰

Questions

Categories

Quiz

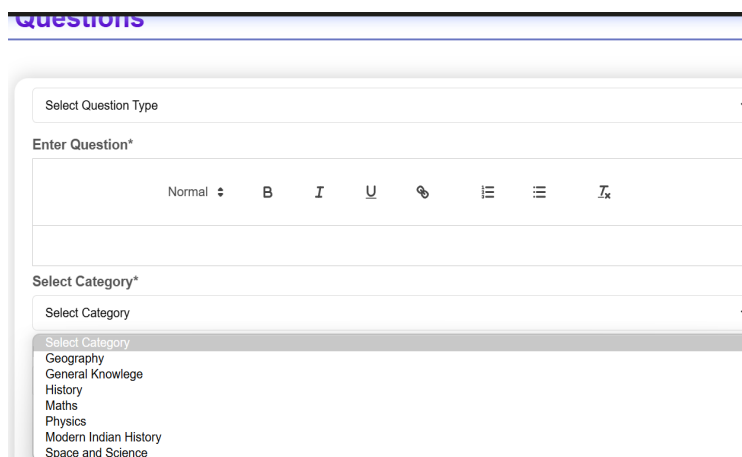
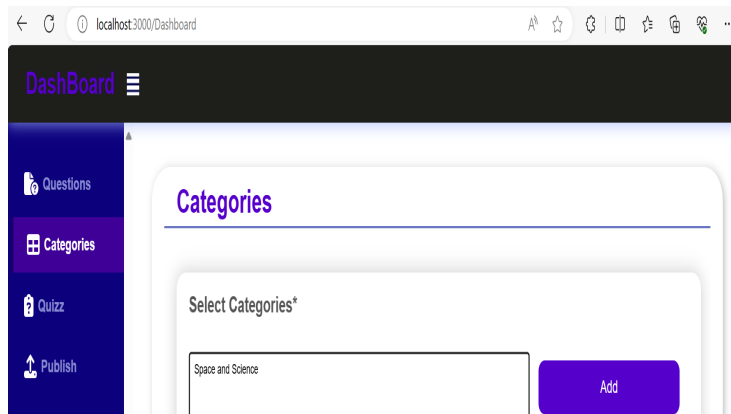
↑ Publish

Categories

Select Categories*

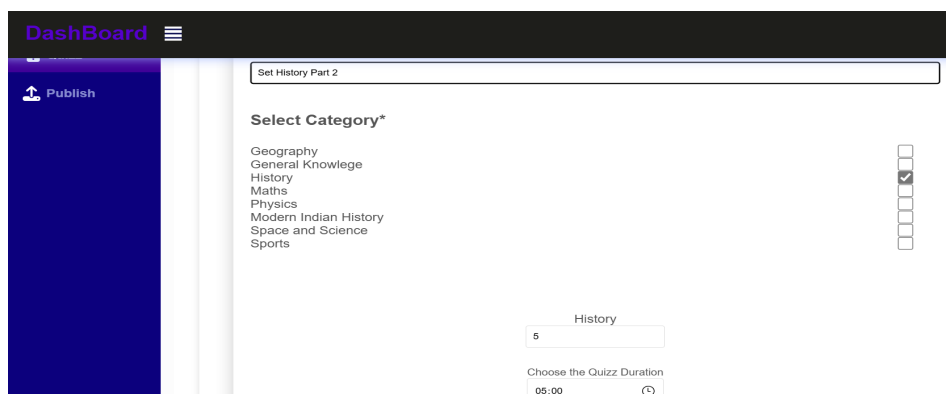
Enter Category

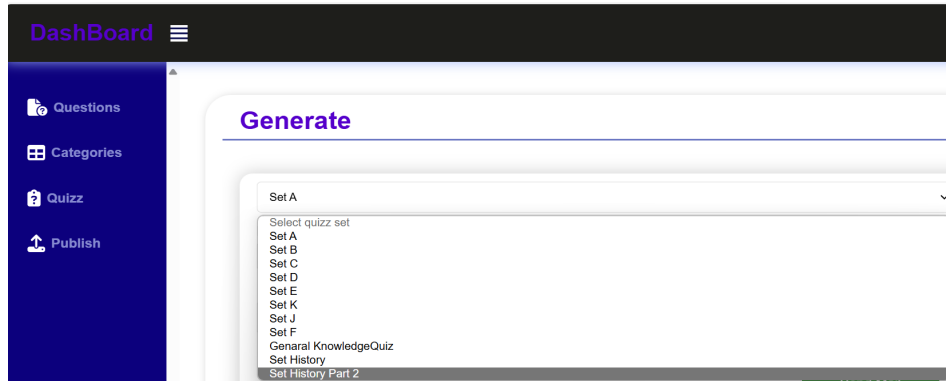
Add



Setting Quiz

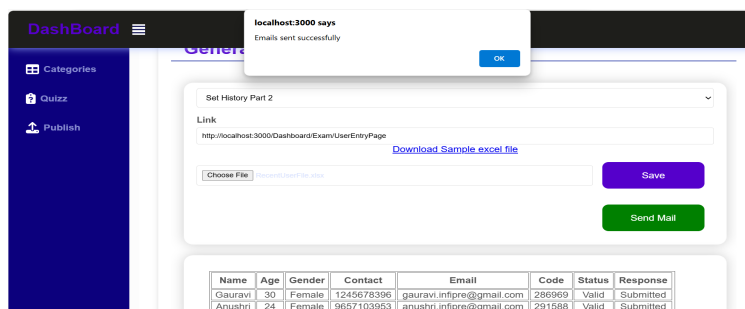
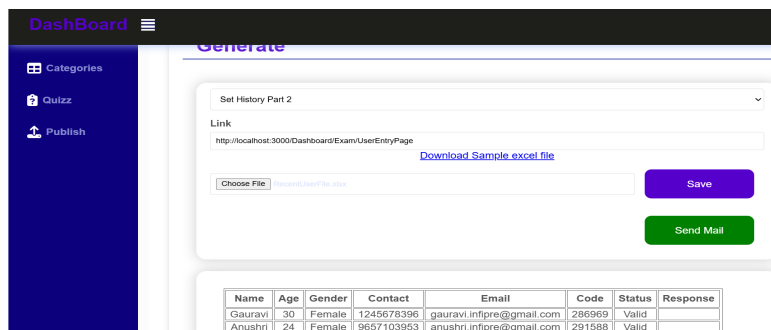
This is the quiz section where the user can select any one of the previously created categories ,set number of questions he wants , and the set name of the quiz set generated . He can also give the duration for the quiz and by clicking on the generate button , the quiz set gets generated.

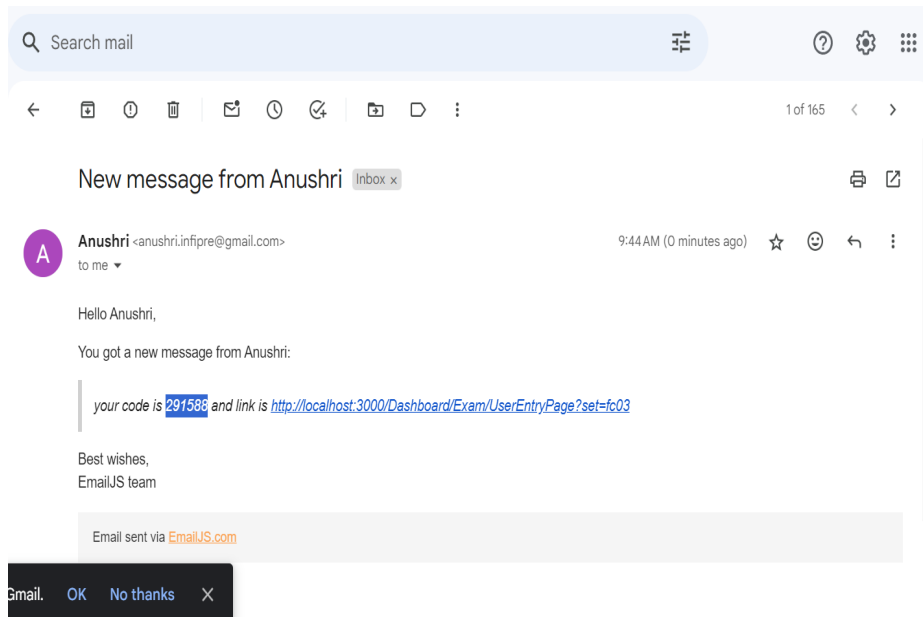




Sending a quiz set to candidates through mails.

In the publish section , admin can click on the “Download the sample file “ link and download the file wherein he can add the users data in that format and import the file . He can choose the previously created questionset he wants from the drop down and after clicking on the send mail button , Email gets sent to all the users simultaneously with a quiz link and a unique code to each candidate to answer the quiz .





UserCredential

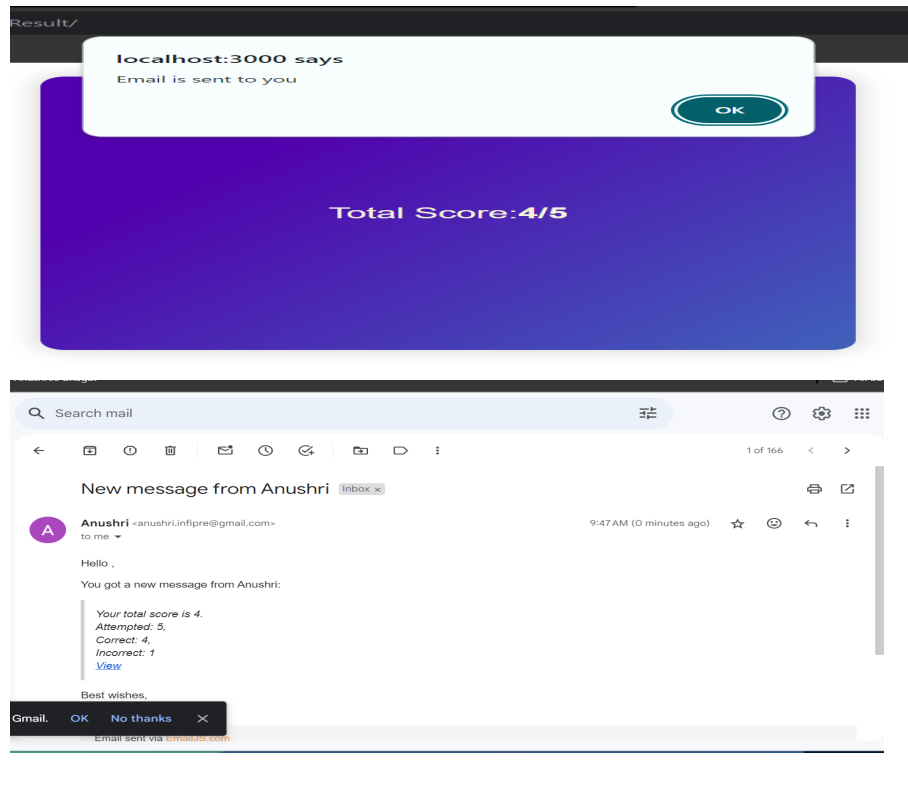
This is the user entry page , where the candidate has to enter his email id and code provided to him through mail.If the email and the code entered by the candidate matches with those provided in the email then he is allowed to answer the quiz.

Quiz page

This quiz page actually has the question from the quiz set chosen by the admin for candidates to answer . On the left side there are questions to select and navigate to . There are three buttons: prev , next and submit to move to the previous , next and submit the quiz, whenever the candidate feels so . Additionally , there is also a timer for quizzes . Automatically submits the quiz when the timer reaches its limit.

Displaying the results

After submitting the quiz , a total score is displayed to the user. An email is also sent to the user displaying his total score, number of questions he answered, number of correct answers and number of incorrect answers. There is also one link provided , when clicked on it , his answer sheet get displayed to him .



when India got independence?

1947
1950
1945
1960

Selected Answer:1947

Status:Correct Answer

Where Was Mohandas KaramChandra Gandhi Born?

Gujarat
Rajasthan
Kerala
Karnataka

Selected Answer:Gujarat

Status:Correct Answer

Who Wrote Jana Gana Mana?

The above were the different types of tasks done in React Technology .

2.3 Relationship of the tasks with the Course

These tasks were developed mainly using Html , Css , Bootstrap and React.

These all were covered in one of the elective subjects in the third sem of MCA Course that is web development.

It got my concepts clear about these technologies then itself which helped in completing the task even more quicker.

With rigorous practice with bootstrap classes made the designing of the web pages or ui much easier and saved a great amount of time .

Efficiently managing state and props often involves understanding data structure(e.g array ,object) and algorithm (e.g sorting and searching). Which was taught during the first sem of the Mca course.

Most of the fundamentals of react was taught during Mobile development practicals which was done using React native. And we know that React and React native share several similarities .

Principles of user-centered design and usability testing are important for building intuitive and accessible react applications.

Creating responsive and visually appealing interfaces using css framework and understanding user experience are key in React Development.

CHAPTER 3 :LEARNINGS

Learnings from practical exposure:-

Real world problem solving

Practical problems require applying theoretical concepts to solve real world problems. This bridge the gap between abstract knowledge and practical implementation.

Encountering unexpected challenges during practical work enhanced problem solving skills and critical thinking.

Hands on experience with tools and technology

Practical exposure involves using various development tools that are essential for software development.

Working on frameworks helps in understanding how to use frameworks and libraries.

Code quality and best practices

Practical experiences emphasizes writing clean , maintainable and efficient code .

Participating in code review helped in understanding best practices ,learning from peers and improving code quality.

Debugging

Encountering and fixing bugs in a practical setting helps develop strong debugging skills and patience.

API Integration

Practical exposure involved integrating applications with various APIs and backend services, enhanced understanding of data fetching and manipulation.

Being Innovative In handling tasks

There were multiple small tasks that were allotted to me to complete during my internship period.

During the completion of the task I encountered many challenges. To sort out I had to find a solution . This is how i tackled the problems

For example

In one of tasks that is **google map integration** , I had to take the api key of google maps in order to integrate the map , but it was not freely available. For that I used third party services which uses google maps api key and renders you the map interface.

In another task I had to design an admin dashboard with key features in a limited amount of time . To write css code for the whole dashboard would have taken some time. That is why I took the help of w3School websites . It had the code for designing the layout for the dashboard . I took the css code , removed the unnecessary content and added some new menu items to it keeping its overall layout same. That's how I managed to complete it within time.

Finally in my project, which is a quiz application , I had to set up the quiz set and send mails to the students to answer . But the biggest question was about the approach of doing that . So I came up with an idea of importing the csv file having candidates information

Such as name , age, gmail,etc and sending the quiz set to their email with a link and an auto generated code. I had sent it using client side application for that i had to use email sending service to send mail directly from client side. That email sending service then uses SMTP Protocol to send mails . It has its own server which stores all email logs .

Learnings about myself

During my internship period I learnt quite a lot of things , not only about the tasks but also of the social , work environment , and working in the team and last but not the least maintaining work life balance which i think is very important.

I learned how to deal with difficult situations in fixing bugs in the code. It also teaches you to be patient to see where the bug has occurred and find the solution.

I learned how one's attitude should be in completing the task before the said deadline.

Don't stop until the task has been completed successfully . Give ur 100% in achieving the goal.

Right now, if I see my entire internship journey , I was not putting enough effort to complete the task on time that was given to me by my mentor . That I think was the biggest mistake I made .

If a task was given to me to complete by today itself , it would take 2 or 3 days to complete it . So my speed was very slow .

I was also having difficulties in designing the ui of the web page . So Most of my time would go figuring out the layout of the web page .

I also found out that I was somewhere lacking to put attention to the tasks that I am doing. My attention span was also very less.

But with time , I worked upon this , and with practice I tried to improve upon myself .

CHAPTER 4:CHALLENGES

The activity that I was unaware about

At the initial period of my internship period I was unaware about the deadlines of the tasks that were given to me . There was a delay in completion of the tasks .

It was a self learning internship , wherein I had to complete the task side by side and learn about the important concepts and applications by surfing through the internet . Simultaneously manage the time accordingly.

Meeting the deadlines

I had been given a total of 8 tasks to complete . Each had a certain duration of time within which I had to complete and show them the demo.
One week of time was given for each task to complete.

Initially I faced difficulties in meeting the deadlines . As I was facing a couple issues in completing the tasks . Bugs in the code or would take time in designing the ui page or Time would just pass in fixing those bugs in the code .

But as time passed i slowly improved my speed and bug fixing ability by practicing on similar such tasks at home and tried to complete the tasks before the due time.

