EXPERIMENT 4b

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CLASS: TE COMPS **BATCH: C**

DATE:

Aim: Understanding and use of Nodejs, Angularjs, Reactjs etc.

Theory:

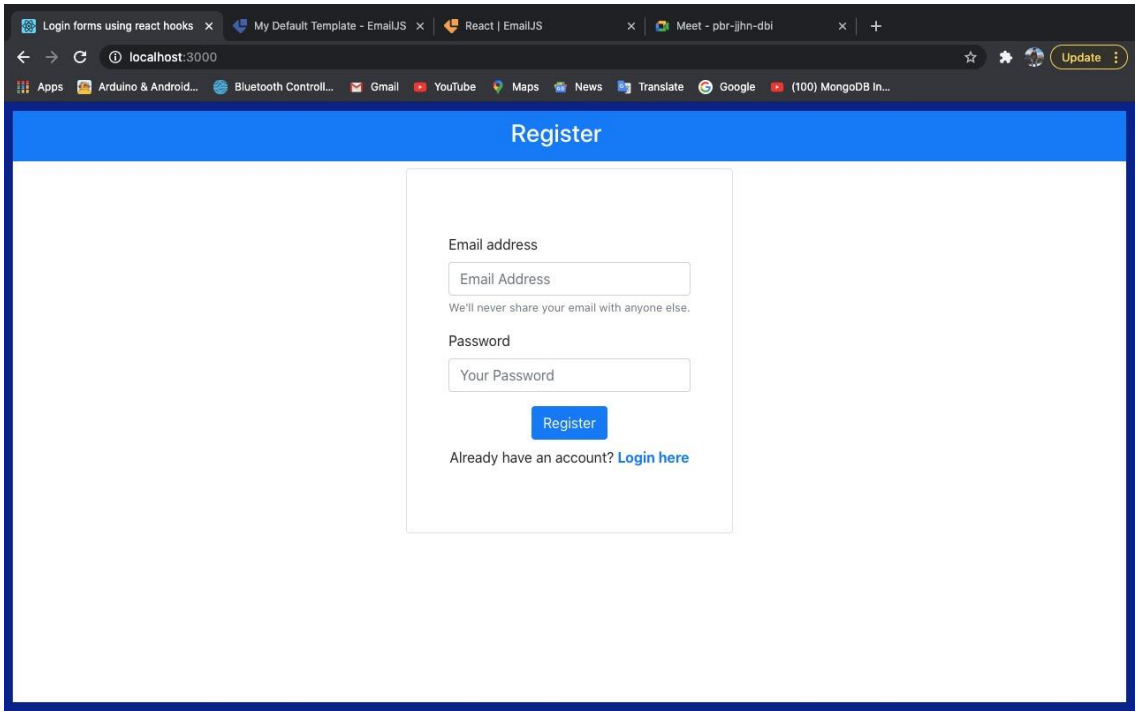
Prob Definition:

This application is developed for educational purpose, allowing the users to prepare the multiple-choice questions for different examinations. The main goal of the application is to enable users to practice for MCQ tests. Our application display score of user how many questions are right from test at the end of the result and also display at the time of submission of answer that selected answer is correct or not. After end of the test if user want to mail the score which is secured in test then user can click on Send mail button and user get email that how much score user get.

Also, login and registration are there to keep track of user to know which user score how many marks in respective quiz.

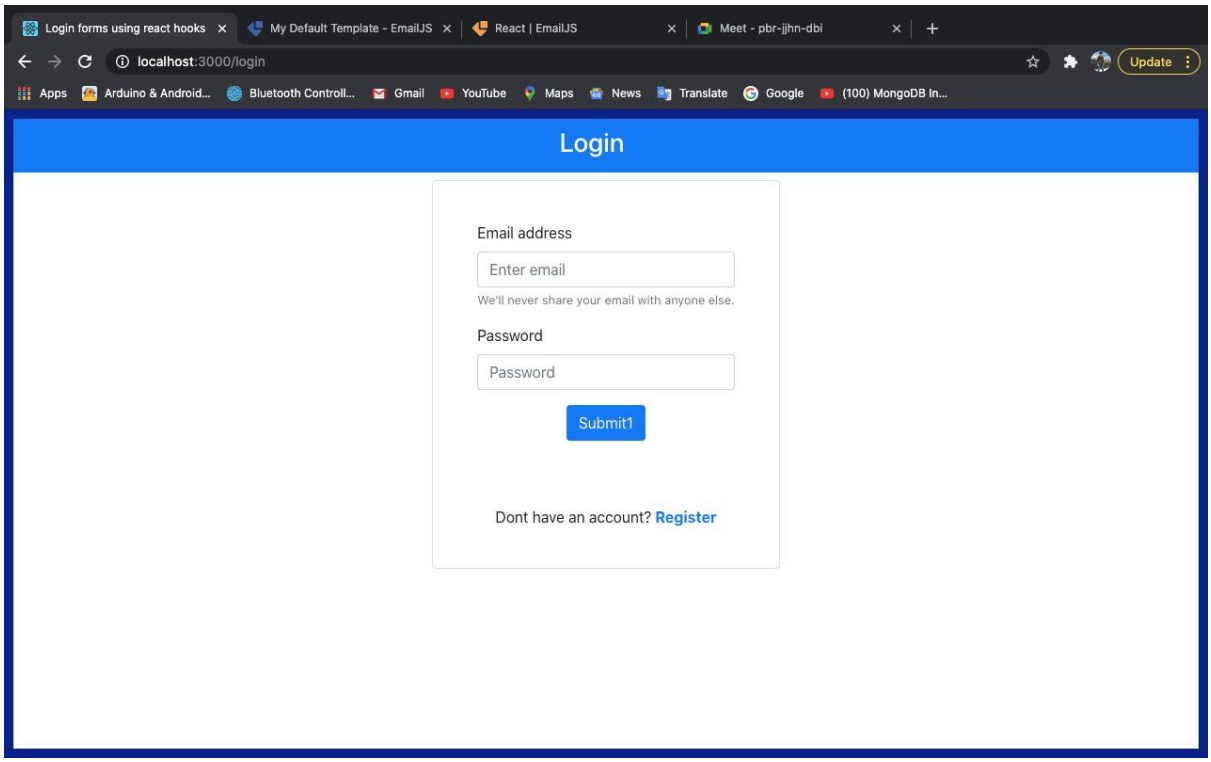
Screenshots:

This is Registration page if user is not register in system the user need to first register and then user can log in the application.

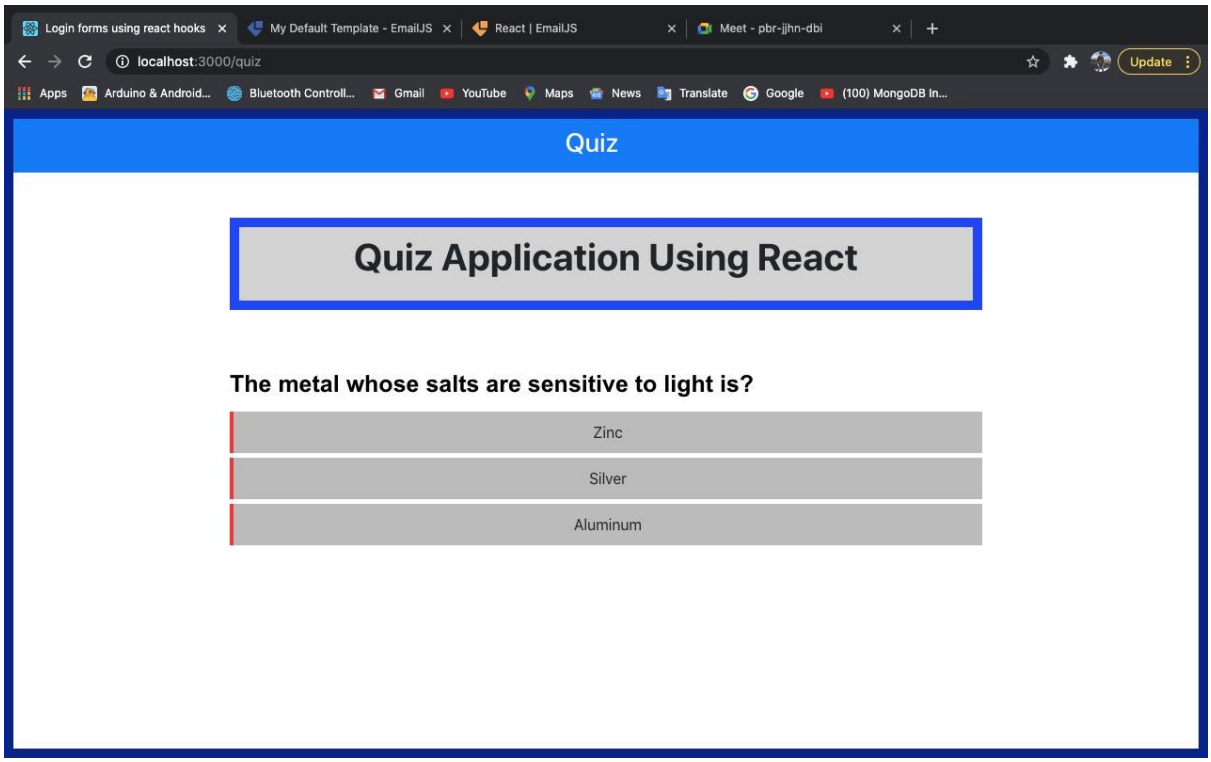


After completion of registration user log into the application .

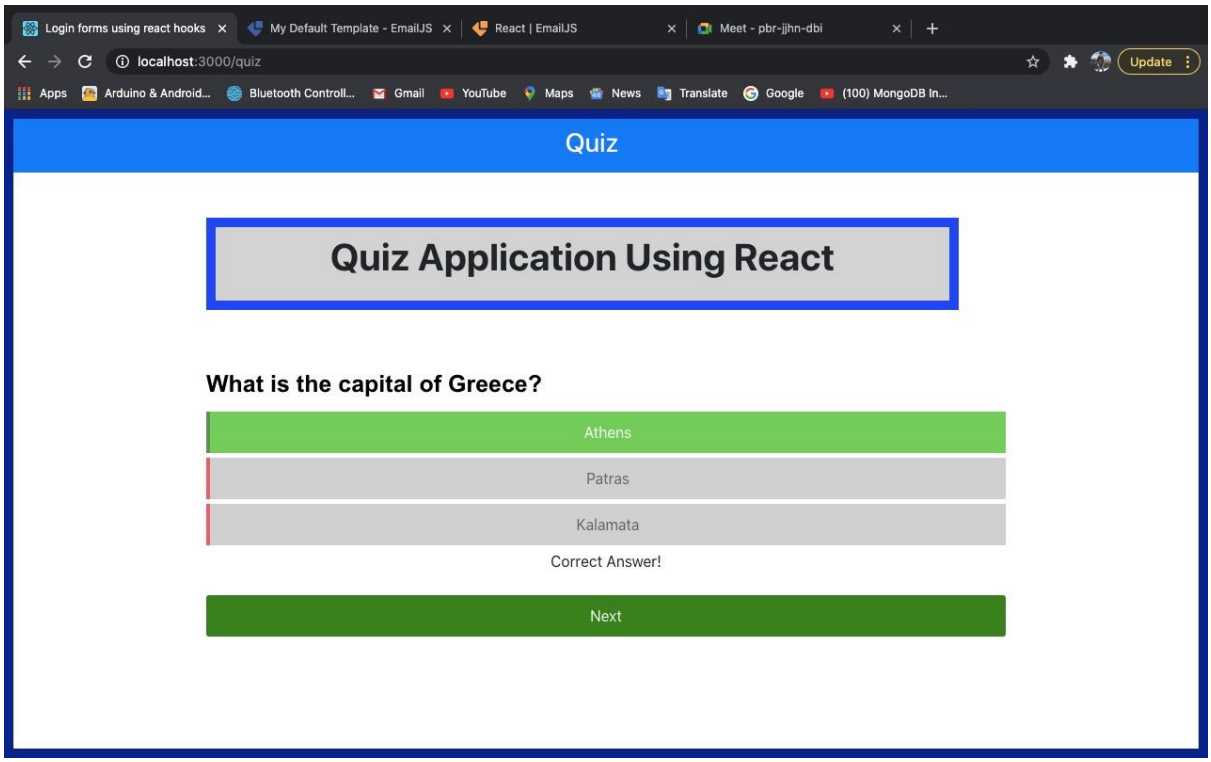
This is login page.



After login user can able to give quiz

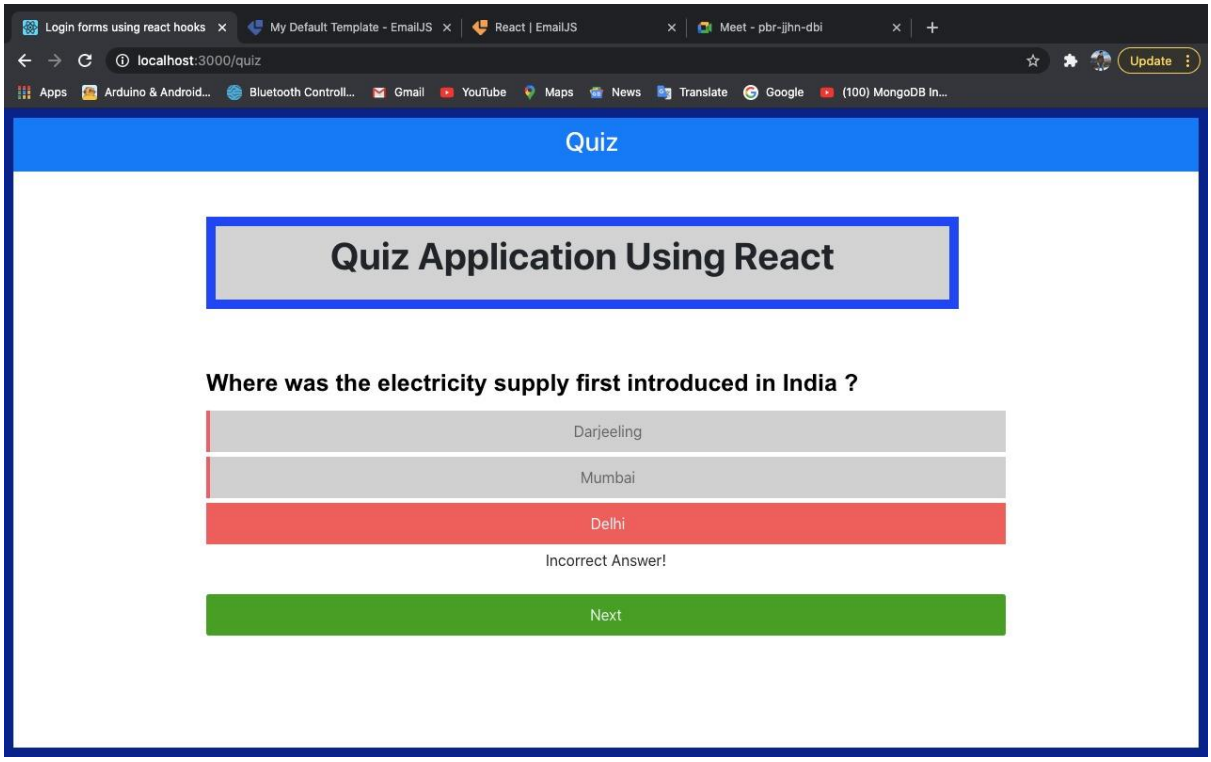


Whenever user select answer if that answer is correct then other options turn red and Correct answer text display on screen.

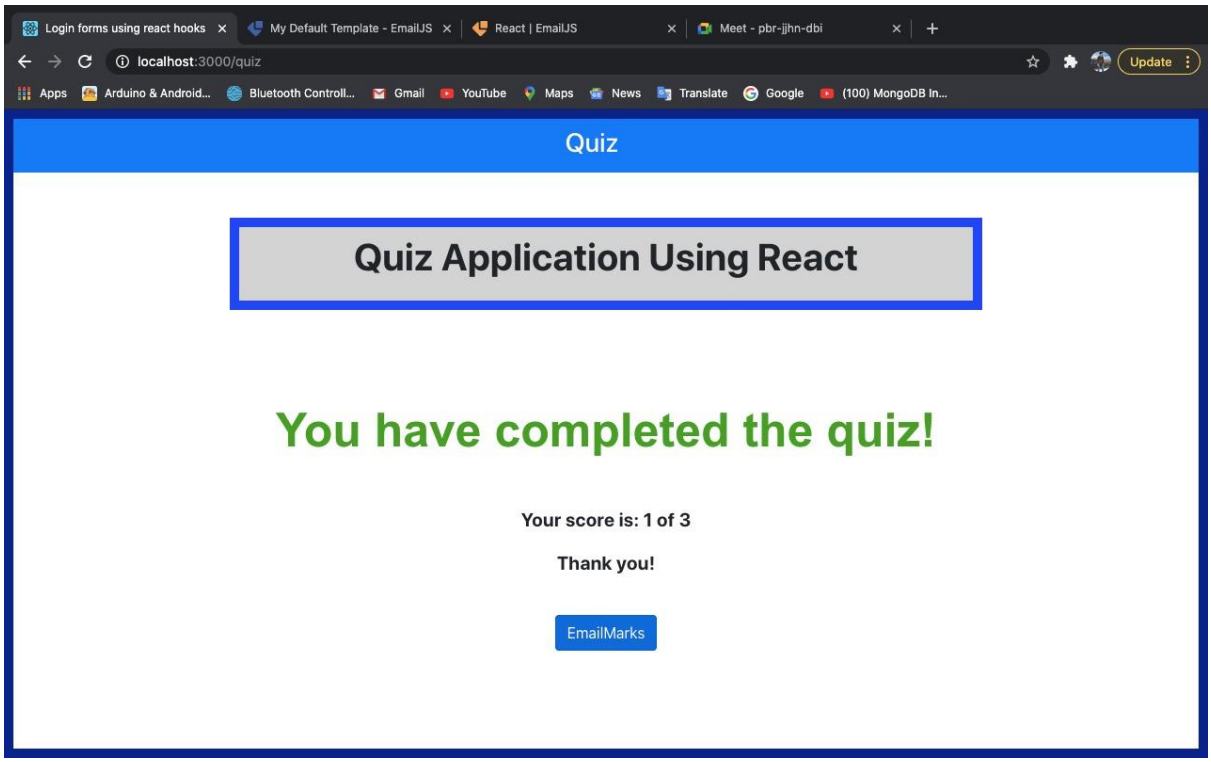


Incorrect Answer

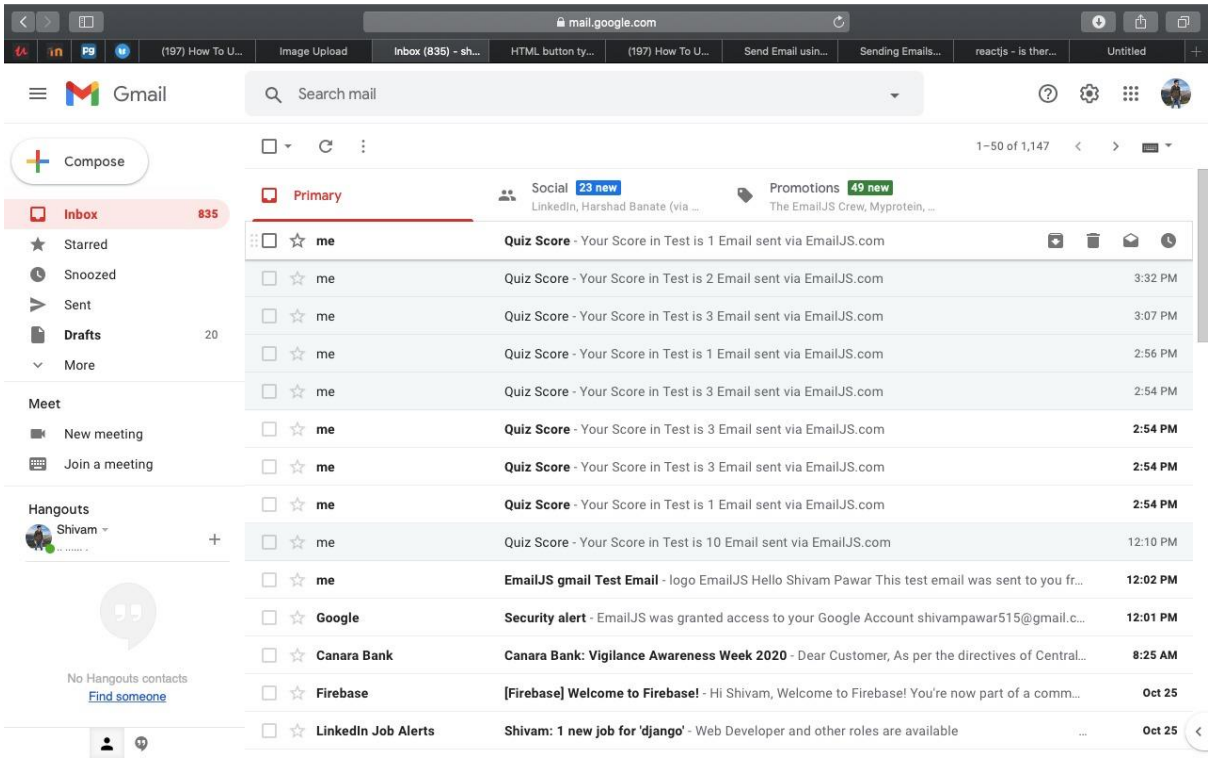
After click on next user get next question.



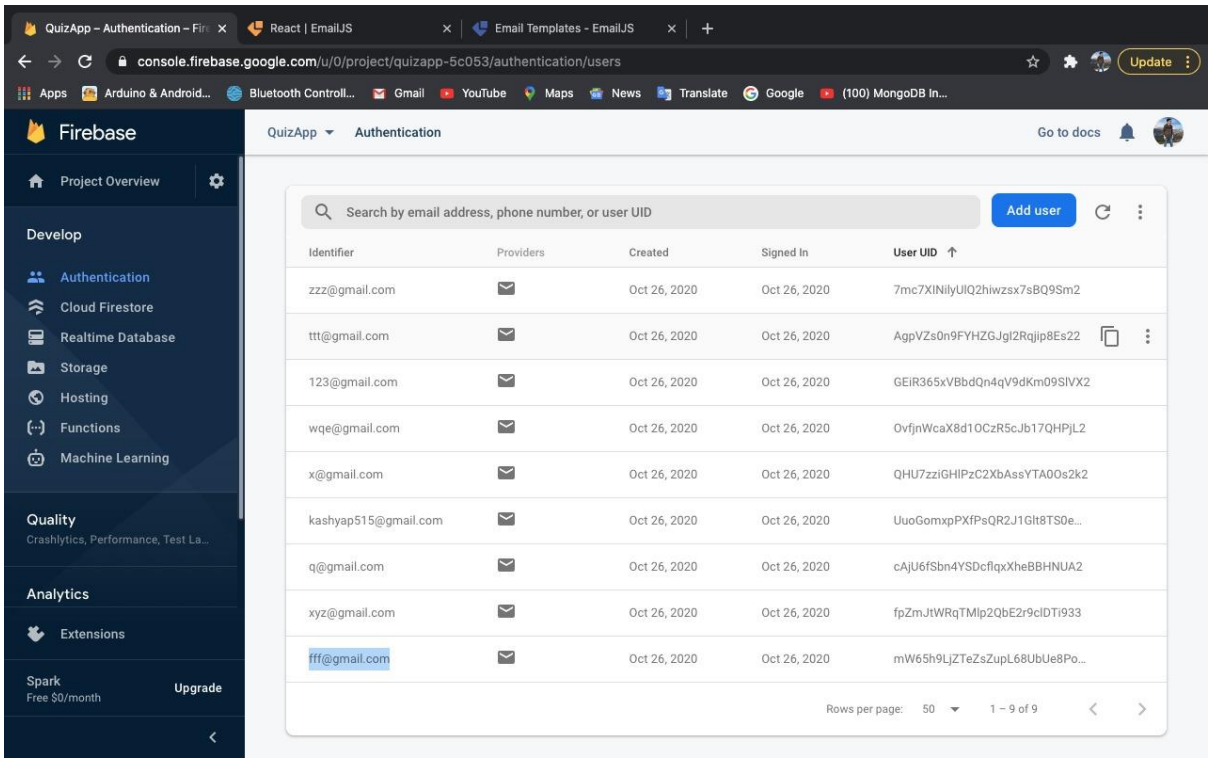
After completion of quiz user get overall score on screen.



After click on Email marks user get marks on Email.



This is our Firebase database whatever users are login our application that are store in database here.



Code Snippet/Main Functions:

Firebase Database:

```
import firebase from 'firebase';
import auth from 'firebase'
var firebaseConfig = {
    apiKey: "AIzaSyDa_de6WxToTra5pmOvdwZ-c4iLXg_fCK4",
    authDomain: "quizapp-5c053.firebaseapp.com",
    databaseURL: "https://quizapp-5c053.firebaseio.com",
    projectId: "quizapp-5c053",
    storageBucket: "quizapp-5c053.appspot.com",
    messagingSenderId: "7971630829",
    appId: "1:7971630829:web:1a004e4616e01cfb1ea6e4"
  };
  // Initialize Firebase
  const fire = firebase.initializeApp(firebaseConfig);
```

```
export default fire;
```

Email Function:

```
sendEmail = (e) => {
        const { score } = this.state;

        this.setState({
           score : score
        });

        let templateParams = {
           sc : score,
        }

        emailjs.send('gmail', 'template_hcw9ewr', templateParams, 'user_kRPH7x1MvufSw094GmZvi')
          .then((result) => {
              console.log(result.text);
          }, (error) => {
              console.log(error.text);
          });

    }
```

Registration:

```
registrationform(e) {
     e.preventDefault();
     fire.auth().createUserWithEmailAndPassword(this.state.email,this.state.password).catch((error) =>
{console.log(error);
     });
    }

    handleChange(e){

        this.setState({[e.target.name]:e.target.value});
```

```
  }

  redirectToLogin = () => {
    const { history } = this.props;

    if(history) history.push('/login');
  }
```

Login:

```
loginform(e) {
   e.preventDefault();
   fire.auth().signInWithEmailAndPassword(this.state.email,this.state.password).catch((error) =>
{console.log(error);
   });
  }

  handleChange(e){
     this.setState({[e.target.name]:e.target.value});
  }

  redirectToQuiz = () => {
    const { history } = this.props;
    if(history) history.push('/quiz');
  }
```

Conclusion:

Thus, we implement web application by using ReactJS Framework also learn the Email Verification and database connectivity by using Firebase database .