MINI PROJECT-II

(2022-23)

Synopsis

Department of Computer Engineering & Applications

Institute of Engineering & Technology

Submitted By-

Ajay Singh (201500050)

Under the Mentorship Of-

Mr. Ankit Arora

(Technical Trainer at GLA University)

Acknowledgment

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini-project undertaken during B. Tech III Year. This project is going to be an acknowledgment of the inspiration, drive, and technical assistance that will be contributed to it by many individuals. We owe a special debt of gratitude to Mr. Ankit Arora, Technical Trainer, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal, and for his constant support and guidance to our work.

His sincerity, thoroughness, and perseverance have been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also will teach us about the latest industry-oriented technologies. We would like to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation.

Ajay Singh (201500050)

<u>ABSTRACT</u>

'Quizzzry' web app is designed to provide an engaging and educational experience for users. It allows users to test their knowledge on a particular topic through a range of well-crafted questions of varying difficulty levels. The app provides instant feedback and tracks the user's progress, motivating them to improve their score. The web app is built on Node.js, allowing for a fast and scalable back-end, and uses Firebase Authentication for secure user authentication. The quiz web app is designed to be visually appealing and easy to use, providing a fun and interactive learning experience for users. Overall, the quiz web app aims to provide an enjoyable and educational experience for users through a well-crafted and user-friendly platform.

The app uses Firebase Authentication to ensure secure user authentication, protecting user data and information. Firebase Authentication allows users to sign up and log in using third-party authentication providers such as Google.

Overall, Quizzzry web app aims to provide an enjoyable and educational experience for users through a well-crafted and user-friendly platform. It is ideal for anyone looking to test their knowledge and learn something new on a particular topic..

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<u>INTRODUCTION</u>

'Quizzzry' is a web-based quiz handling platform that provides users online quizzes platform. The platform features multiple pages or routes, Login page, previous created page, create quiz page, and a quiz page. Each page utilizes a card UI design and user fremedly interface, making it easy for users to browse and use our app app.

The main objective of our web app is to provide an engaging and educational experience for users by allowing them to test their knowledge on a particular topic. The app should be easy to use, visually appealing, and provide instant feedback to the user. The quiz questions should be well-crafted and cover a range of difficulty levels, ensuring that users of all knowledge levels can participate and learn something new. The web app should also track and display the user's progress, allowing them to see how well they are doing and motivating them to improve their score. Overall, the objective is to create a fun and interactive learning experience for users through the quiz web app.

With the increasing popularity of online web use, there was a growing demand for a platform that offers a online quiz web app, it helps user to conduct a quiz or question hour in single click. Additionally, existing quiz platforms are quite hard to use for some user that's why our app in dominant as compare to other over featured quiz apps. Our web app has minimal features but all the features are enough to held quiz, create quiz, join quiz etc. To address these challenges, then I decided dev Quizzzry.

SOFTWARE REQUIREMENTS

- Access of internet.
- Any web modern browser
- HTML
- CSS
- Js
- GitHub
- API
- Firbase

Functionalities provided by Quizzzry are as follows:

1. **LogIn:** This platform allows users to login using his google Id to access his previously created quizzes. Login Authentication is fully functioned google-firebase.

2. **Create quiz:** This platform allows users to create quizzes in few steps. User can create quizzes, add any no of questions, can set answer, also can show ans.

3. **Join quiz:** This platform allows users to join quiz across the whole world using key/ code provided by the quiz owner.

4. **Previous quizzes :** This platform allows users to access his/her previously created quizzes, user can edit them and user can them conduct again.

TOOLS AND TECHNOLOGY

Firebase -

Firebase is a mobile and web application development platform owned by Google. It offers a suite of services to help developers build, improve, and grow their apps, including features for real-time database, authentication, hosting, storage, and messaging. Firebase simplifies the app development process by providing a backend infrastructure that allows developers to focus on building great user experiences. It's widely used by developers all over the world, and it's especially popular among startups and small businesses looking to create high-quality apps without the resources to build and maintain their own backend infrastructure.

JavaScript -

JavaScript is a high-level programming language used to create dynamic, interactive websites and web applications. It is widely used in front-end web development to add interactive elements to web pages, such as forms, animations, and navigation menus. JavaScript is also used in back-end web development with frameworks like Node.js to build scalable and efficient server-side applications. It is a powerful language that supports object-oriented, functional, and procedural programming paradigms. With its versatility, popularity, and large community of developers, JavaScript has become a crucial skill for anyone interested in web development.

Google-Authentication Using firebase -

Google Firebase Authentication is a service offered by Firebase that allows developers to easily add user authentication to their mobile and web applications. It provides secure authentication and authorization using email and password, phone number, social media, and third-party authentication providers such as Google, Facebook, and Twitter. Firebase Authentication also offers various features such as custom authentication and multi-factor authentication for added security. With Firebase Authentication, developers can quickly and easily add user authentication to their app without worrying about the complexities of building and managing an authentication system from scratch. This service helps developers save time and resources and provides a smooth user experience for app users.

NodeJs -

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment built on the Chrome V8 JavaScript engine. It allows developers to run JavaScript code on the server-side, enabling them to build fast and scalable network applications. Node.js has a non-blocking I/O model, which means that it can handle multiple connections simultaneously, making it ideal for building real-time applications such as chat applications, streaming services, and online gaming platforms.

<u>Faculty Guidelines:</u>

Mr. Ankit Arora (Technical Trainer at GLA University)