

**Real Time**  
**Android Quiz Application**  
**“QuizUp”**

A report submitted to Partial Fulfilment of Award of Degree of Bachelor of  
Technology

In Computer Science and Engineering

Submitted by:

***Shivani Singh (CSJMA13001390030)***

***Vishal Anand (CSJMA13001390050)***

***Ashish Jain (CSJMA13001390035)***



**Computer Science and Engineering**  
**University Institute of Engineering & Technology**  
**CSJM University, Kanpur**  
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**University Institute of Engineering & Technology,  
C.S.J.M. University, Kanpur**

**CERTIFICATE**



This is to certify that **VISHAL ANAND** Roll number **CSJMA13001390050**, **SIVANI SINGH** Roll number **CSJMA13001390030**, **ASHISH JAIN** Roll number **CSJMA13001390035** of B.Tech. (Computer Science and Engineering) 4<sup>th</sup> year has delivered his B.Tech project report on **“Realtime Android Quiz App (QuizUp)”** in a successful and satisfactory manner under our guidance and supervision. This B.Tech. project report is requirement for the partial fulfillment of his B.Tech course from **U.I.E.T., C.S.J.M. University, Kanpur**.

**Er. Beena Awasthi**  
(Project Supervisor, CSE dept.)

## **DECLARATION**

We undersigned Vishal Anand Roll No. CSJMA13001390050, Shivai Singh Roll No. CSJMA13001390030, Ashish Jain Roll No. CSJMA13001390035 student of B.Tech. 8<sup>th</sup> semester declare that we have done the project on “Android App Development” titled as “QuizUp” has been personally done by us under the guidance of Er. Beena Awasthi in partial fulfillment of B.Tech. project during academic year 2016-17. All the data represented in this project is true & correct to the best of our knowledge & belief.

We also declare that this project report is our own preparation and not copied from anywhere else.

**Vishal Anand (CSJMA13001390050)**

**Shivani Singh (CSJMA13001390030)**

**Ashish Jain (CSJMA13001390035)**

## **ACKNOWLEDGEMENT**

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We wish to express our sincere acknowledgement and gratitude towards guidance and encourage in carrying out this project. We take immense pleasure in extending our carry out project. We are grateful for her constant tremendous support and help. We always feel motivated and encouraged by her.

Also, we would like to take this opportunity to thank to the Computer Science and Engineering Department of U.I.E.T. for offering this project. It gave us the opportunity to participate and learn about Android app development.

This project would not have been possible without the support of many people. An honorable mention goes to our families and friends for their understanding, moral and spiritual support on us in completing this project. Without help of the particular that mentioned above, we would have faced many difficulties while doing this.

Last but not least, we would like to thanks CSE department for providing us with a good environment and facilities to complete our project.

**Vishal Anand (CSJMA13001390050)**

**Shivani Singh (CSJMA13001390030)**

**Ashish Jain (CSJMA13001390035)**

## **ABSTRACT**

Real-time Android quiz app titled “QuizUp” is developed for quiz competition with all other online users. QuizUp is a multi-player application in which one user competes against another during seven rounds of timed multiple-choice questions of various topics. User have the ability to either challenge a friend to a match or be paired against a random player. Users have the option of signing into the app through a social media platform Google+.

To perform real-time competition, the app uses Google’s Firebase cloud messaging services. Firebase gives the tools to develop high-quality apps. Firebase Real-time Database store and sync with NoSQL cloud database. Data is sync all clients on real-time, and remains available when app goes offline. The Firebase Real-time Database is a cloud-hosted database. Data is stored as JSON and synchronized in real-time to every connected client. All of the clients share one Real-time Database instance and automatically receive updates with the newest data. All messages of this app are store on Firebase database to achieve Real-time service.

This app is design to run on any Android devices having different screen resolution like Android phone, Android T.V., Android TAB etc. Scroll layout can dynamically handle different sizes of screens. Different color combinations make the app to look more realistic. Text sizes, text styles and color can be customized by user. The app uses XML (Extensible Markup Language) for front-end. XML is like HTML, it’s a tag language used to design realistic layout. The app uses Java at the back end of the app.

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