

# QUIZ APPLICATION



## GUIDED BY

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## TECHNOLOGIES USED

- \* Core Java
- \* Java Swing
- \* GUI
- \* HTML
- \* MYSQL

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# INTRODUCTION

- \* Our project is to facilitate students in learning, gaining and Improving their knowledge skills.
- \* The users can prepare for interviews, entrance tests or any other corresponding purposes in a fresh mood and can't get bored or frustrated due to dullness of app.
- \* We designed the application to facilitate the users to be able to take short quizzes using portable devices such as smart phones and tablets.

# WHAT IS JAVA?

- \* Java is a high-level, versatile, and widely-used programming language that was first developed by James Gosling and his team at Sun Microsystems (which was later acquired by Oracle Corporation). It was released in 1995 and has since become one of the most popular programming languages in the world. Java is known for its platform independence, meaning that Java programs can run on different computer systems without modification, as long as they have a Java Virtual Machine (JVM) installed. Here are some key characteristics and features of Java:
  1. Platform Independence: Java is often referred to as "write once, run anywhere" because Java code can be compiled into platform-independent bytecode. This bytecode can be executed on any device or platform with a compatible JVM.
  2. Object-Oriented: Java is an object-oriented programming (OOP) language, which means it emphasizes the use of objects and classes to model and solve problems.

# WHAT IS JAVA SWING?

- \* Java Swing is a GUI (Graphical User Interface) toolkit and framework for Java, which is part of the Java Standard Library. It provides a set of components and tools for building desktop applications with rich, interactive graphical interfaces. Swing was introduced as a replacement for the earlier Abstract Window Toolkit (AWT) and is a more powerful and flexible option for creating graphical user interfaces in Java.
- \* Here are some key points about Java Swing:
  1. Platform Independence: Swing is built on top of AWT but provides platform-independent components, which means that Swing applications look and behave consistently across different operating systems.
  2. Lightweight Components: Swing components are lightweight, meaning they do not rely on the underlying operating system's GUI components. Instead, they are drawn directly by Java. This results in consistent appearance and behavior.

# WHAT IS MYSQL?

- \* MySQL is an open-source relational database management system (RDBMS) that is widely used for managing and organizing structured data. Developed by MySQL AB (now owned by Oracle Corporation), MySQL is known for its speed, reliability, and ease of use. It is one of the most popular RDBMS systems and is commonly used in web applications, data-driven software, and various other types of projects. Here are some key features and concepts related to MySQL:
  1. **Relational Database:** MySQL is a relational database system, which means it organizes data into tables with rows and columns. The relationships between tables are defined using keys and foreign keys.
  2. **SQL (Structured Query Language):** MySQL uses SQL for querying and manipulating data. Users can create, retrieve, update, and delete data using SQL statements.

# MOTIVATION

- \* There are many online quiz applications available on internet, but most of them are only for learning but we are providing this for entertainment and fun as well.
- \* The most attractive feature of our app is that we take learning and fun side by side.
- \* Our app provides them the facility to revise their knowledge or to learn something advantageous at one place without wasting their time.
- \* Motivate user to learn something.



## OBJECTIVES

- \* The basic objective of this project is to develop an android-based system with following features, namely: (i) questions bank, (ii) time frame, (iii) life lines, (iv) data storage, and (v) multimedia support (pictures, snapshots, tables).
- \* The main objective to create this quiz app is to help the users for the preparation of necessary educational purposes regarding computer science and it field as well as fun and entertainment with an easy access to our app directly on their android phones.
- \* Users can learn and prepare themselves for interviews, tests and exams on android phones, and can also use this app for increasing their general knowledge about computer science, everywhere and anytime.

# FEATURES

**TERII**

- \* High Score Count.
- \* Score Comparison.
- \* Challenge With Friends.
- \* Online Offline Play.
- \* Four Levels For Each Type Of Quiz In Each Level There Will Be 10 Quiz.
- \* High Score List.
- \* Reward Will Be Given As In-game Coin.
- \* Each Question Will Give Some Coins To Unlock New Level.
- \* All Data Will Store In Cloud Server.
- \* In-game Memory.

# OTHER FEATURES



- \* Different CATEGORIES Of COMPUTER Quiz Like:
  - 1.system PROGRAMMING
  2. web engineering
  3. distributed database
  4. modern programming languages
- \* After Test Show The Correct Answer.
- \* Customize Menu.
- \* Time Limit.
- \* Quiz Score.
- \* If The User Perfectly Answer 10 Question Then Score Will Be Double.
- \* Customize Motivating Animation Played After Winning Level.

# FUNCTIONAL REQUIREMENTS

## Game Loading Agent

- \* The application shall load all necessary game files (game core, cards) before loading the start screen. Having no game core shall result in a failure to launch the application. Having zero cards in the database shall also result in a failure to launch the application.

## Start Screen

- \* The user shall be able to select **New Game** to launch the game options screen.
- \* The user shall be able to select **Options** to access and modify pre-game options.

## Game Options Screen

- \* The user shall be able to select a username and specify the amount of questions to be played in the application. If the user specifies more questions than exists in the database, the application shall return an error, and the game will not launch.

## Questions Screen:

- \* The user shall be presented with questions (cards) randomly chosen from the database.
- \* The user shall be provided an input box to input their response to the question presented.
- \* The user shall be notified whether or not their input is the correct answer to the question.

## Results Screen

- \* The user shall be provided the amount of questions they correctly answered out of total questions given in the form of a percentage score, and the questions they correctly and incorrectly answered shall be provided.

# NON-FUNCTIONAL REQUIREMENTS **TERII**

## **Size**

- \* The application shall not exceed 1GB of RAM usage at any time. The application size shall not exceed 512MB.

## **Reliability**

- \* The application must be reliable at all times. The application's fail-safes (not loading without questions of game core) shall catch errors 99.99% of the time. The application shall be running as expected 99.99% of the time.

## **Speed**

- \* The application shall load each new question scene within <100ms. The application's loading agent shall have an operation time of <250ms.

## **Ease of Use**

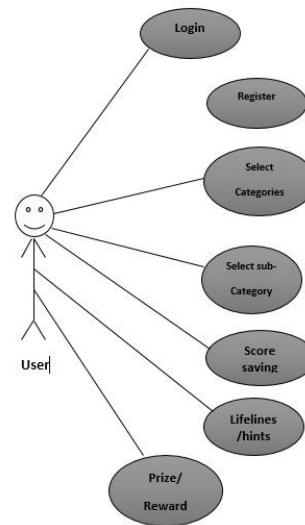
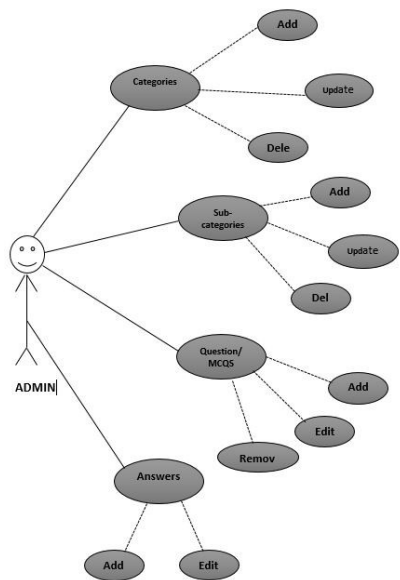
- \* The application should be fully usable by an inexperienced user within 5 minutes.

## **Portability**

- \* The application must be usable for >90% of ANDROID PHONES, Windows 7, Windows 8, and Windows 10 users.

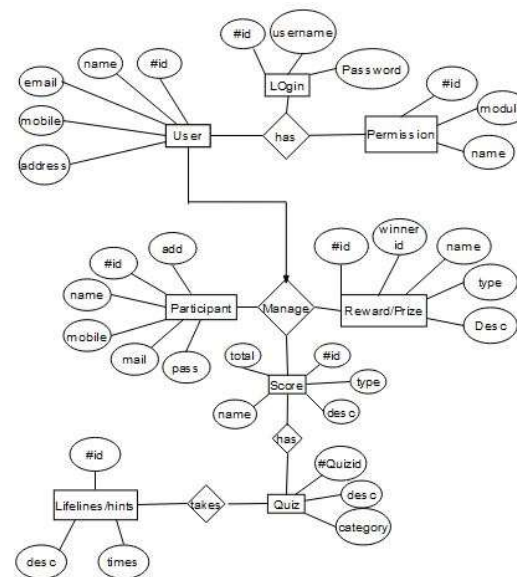
# USE CASE DIAGRAMS

TERII



# ENTITY RELATIONSHIP DIAGRAM(ERD)

TERII



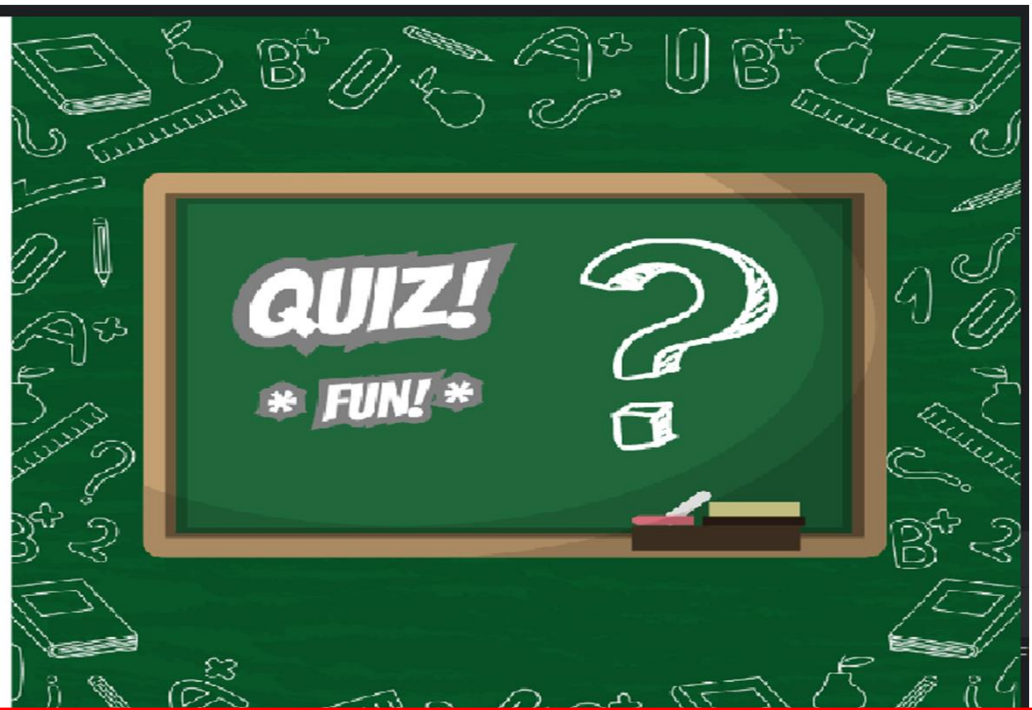
# INTELLIJ IDEA

## QUIZ TEST

Enter Your Name

Next

Back



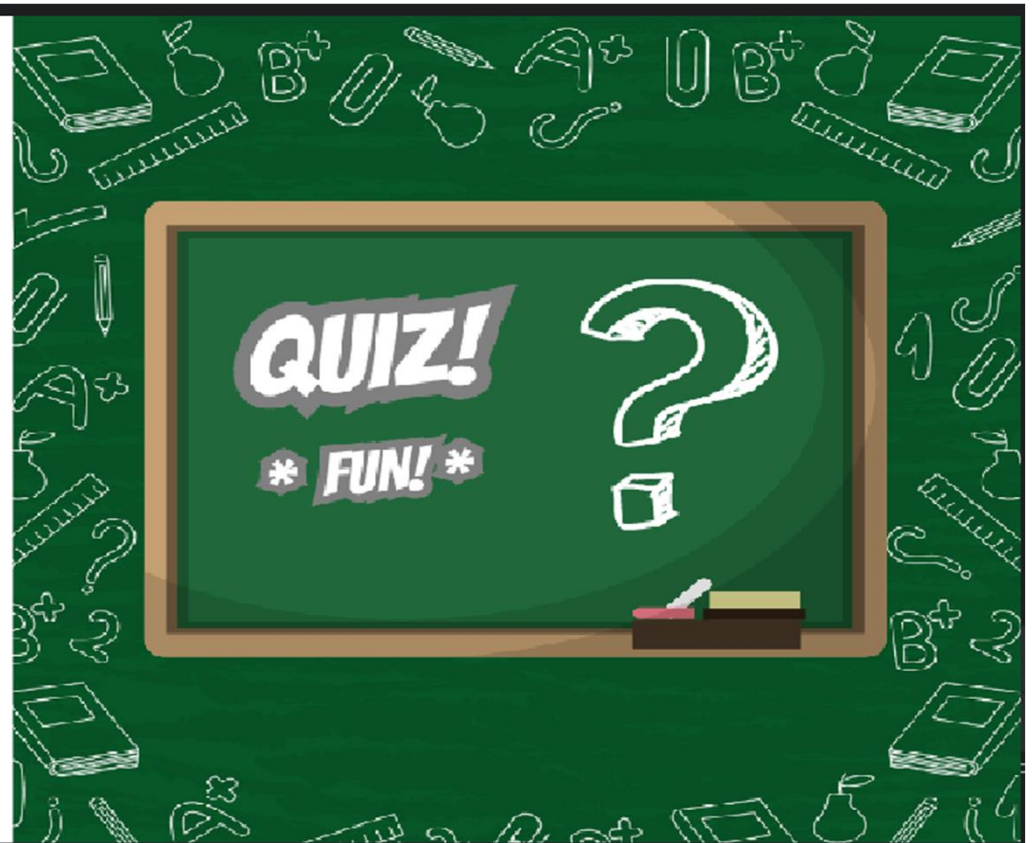


# QUIZ TEST

Enter Your Name

Next

Back



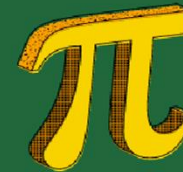
## *Welcomesonu kumarto QUIZ TEST*

1. Participation in the quiz is free and open to all persons above 18 years old.
2. There are a total 10 questions.
3. You only have 15 seconds to answer the question.
4. No cell phones or other secondary devices in the room or test area.
5. No talking.
6. No one else can be in the room with you.

Back

Start

# QUIZ!!



2. What is the size of float and double in java.?

- ☐ 32 and 64
- ☐ 32 and 32
- ☐ 64 and 64
- ☐ 64 and 32

**Time left - 6 seconds**

Next

Help

Submit

# QUIZ!!

8. compareTo() returns

- ☐ True
- ☐ False
- ☒ An int value
- ☐ None

**Time left - 6 seconds**

Next

Help

Submit

**Thankyou sonu kumarfor Playing QUIZ Test**



**Your Score is 20**

**EXIT**

|

## CONCLUSION

- \* Everything has two sides negative of positive.
- \* We request everyone to take the quiz app game positive.
- \* After all one thing we create this game for educational purpose and as well as for fun.

**THANK YOU**