



SURE TRUST
SOCIAL SERVICE INITITATIVE

QUIZ APPLICATION PROJECT

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INTRODUCTION



This Quiz Application developed by using Java. This application allows users to participate in quizzes, assess their knowledge, and enjoy an intuitive user experience. Built entirely by me, the application showcases the power of Java for creating interactive and educational tools. Throughout this presentation, I'll walk you through its features, technology stack, and development process. When quiz will be submitted then it is possible to see previous results.





GOALS AND OBJECTIVES

Objective n° 1

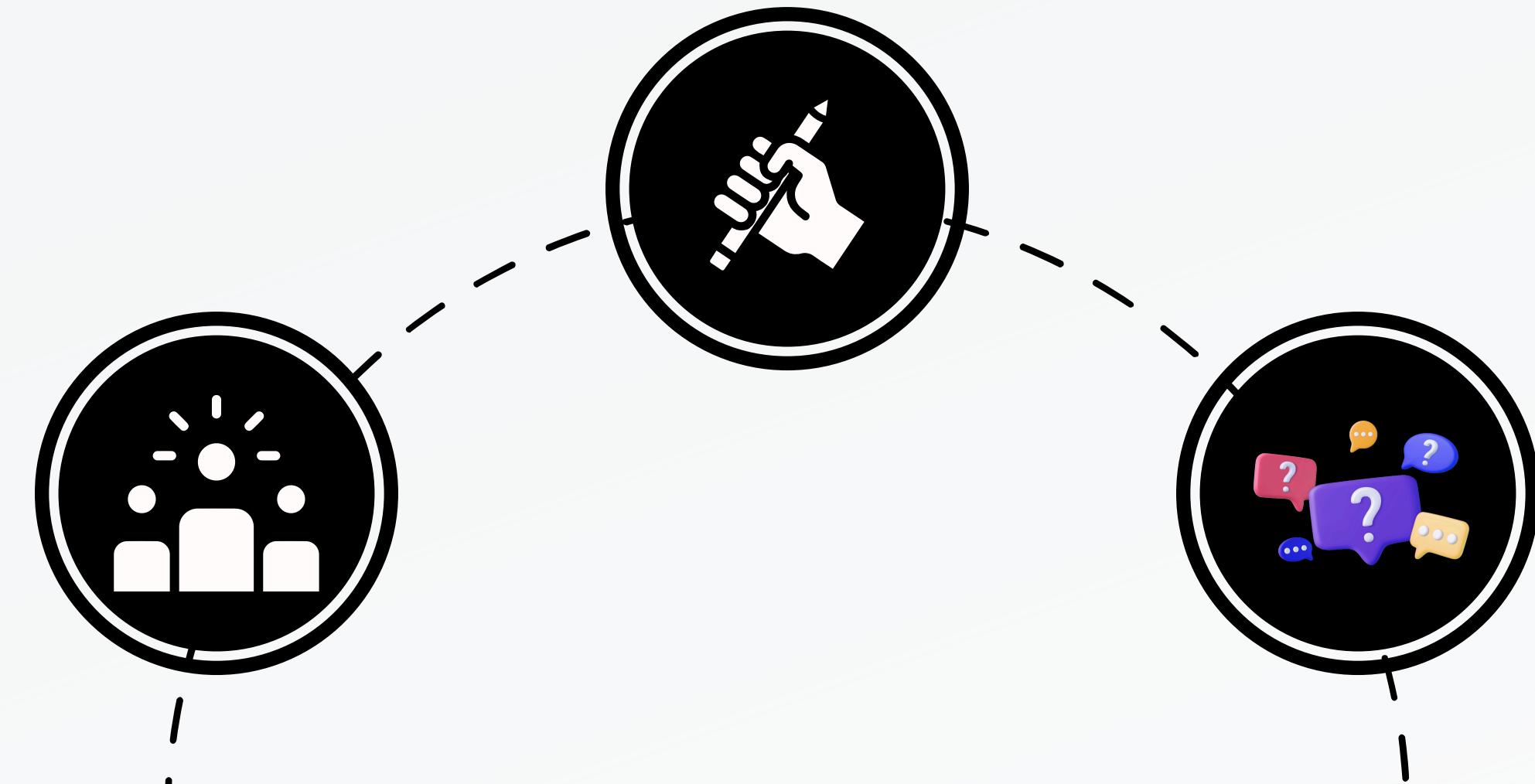
Enhance learning and knowledge assessment through engaging quizzes.

Objective n° 2

Develop a Java-based application for quiz management and user interaction.

Objective n° 3

Implement secure data management like name and score.



TECHNOLOGICAL OVERVIEW

Language: Java

- Development Kit: JDK
- Java SE is used as the primary programming language for the application. Java's robust, object-oriented features make it suitable for developing a GUI application with data processing and storage capabilities.

Java Swing

- GUI Framework: Swing
- Swing is a part of Java Foundation Classes (JFC) used to create window-based applications. It provides a set of 'lightweight' components that include everything from buttons to split panes and tables.

MySQL Database

- Database: MySQL 5.7 or later
- MySQL is an open-source relational database management system. It is used to store quiz questions, user information, and scores. The database ensures data persistence and integrity.

JDBC (Java Database Connectivity)

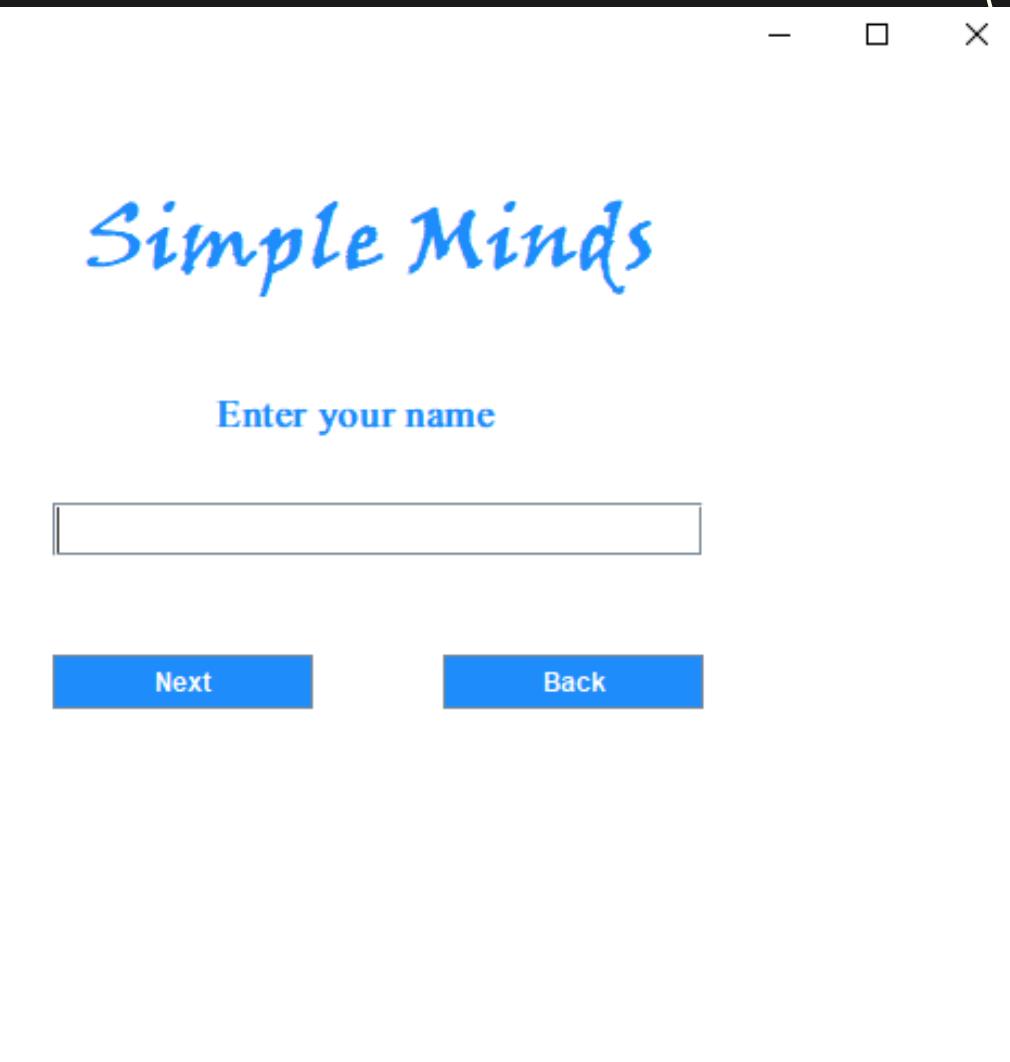
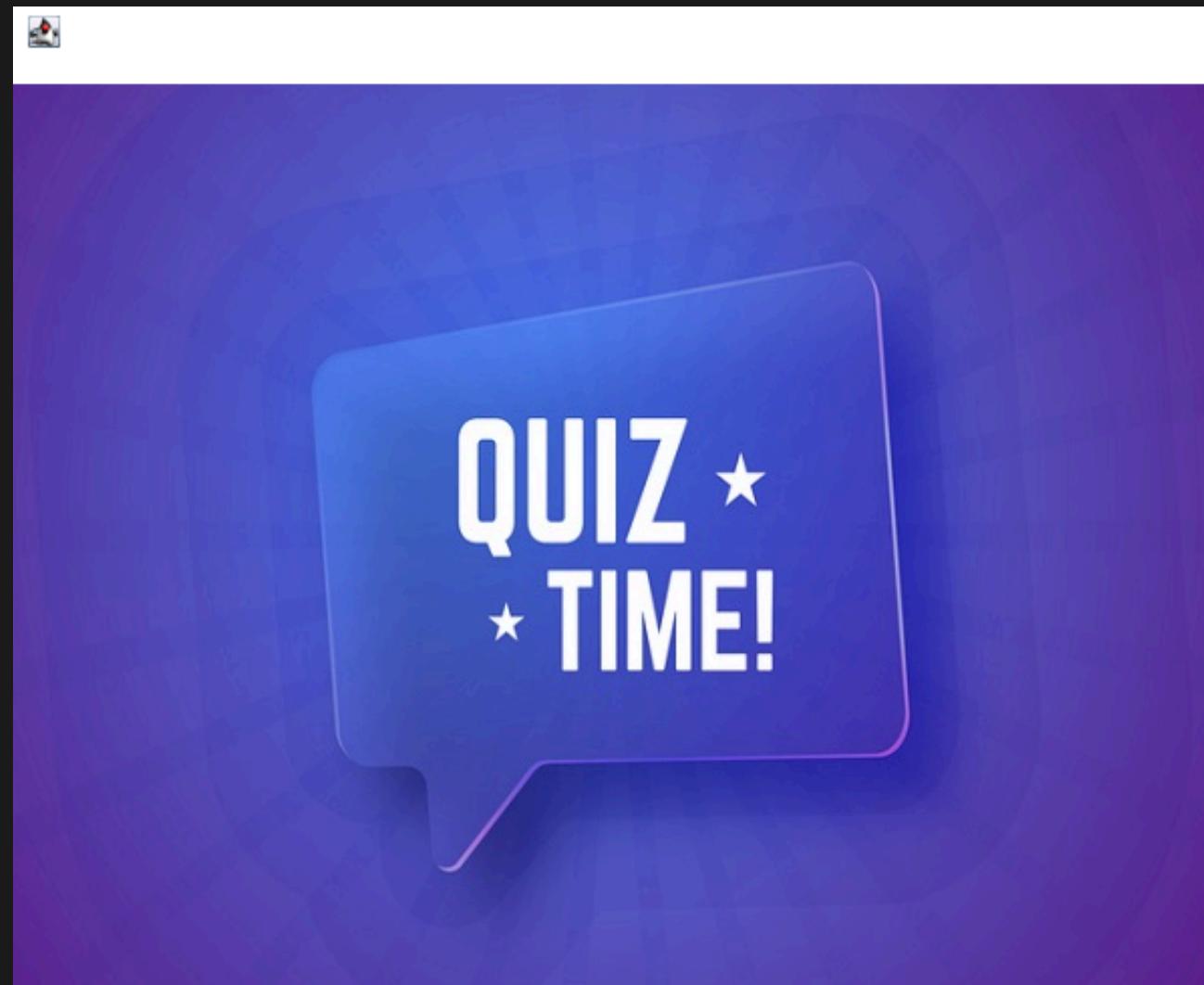
- API: JDBC
- JDBC is an API that enables Java applications to interact with databases. It provides methods to query and update data in a database, handling connections, SQL queries, and result sets.

Development Environment

- IDE: VS Code

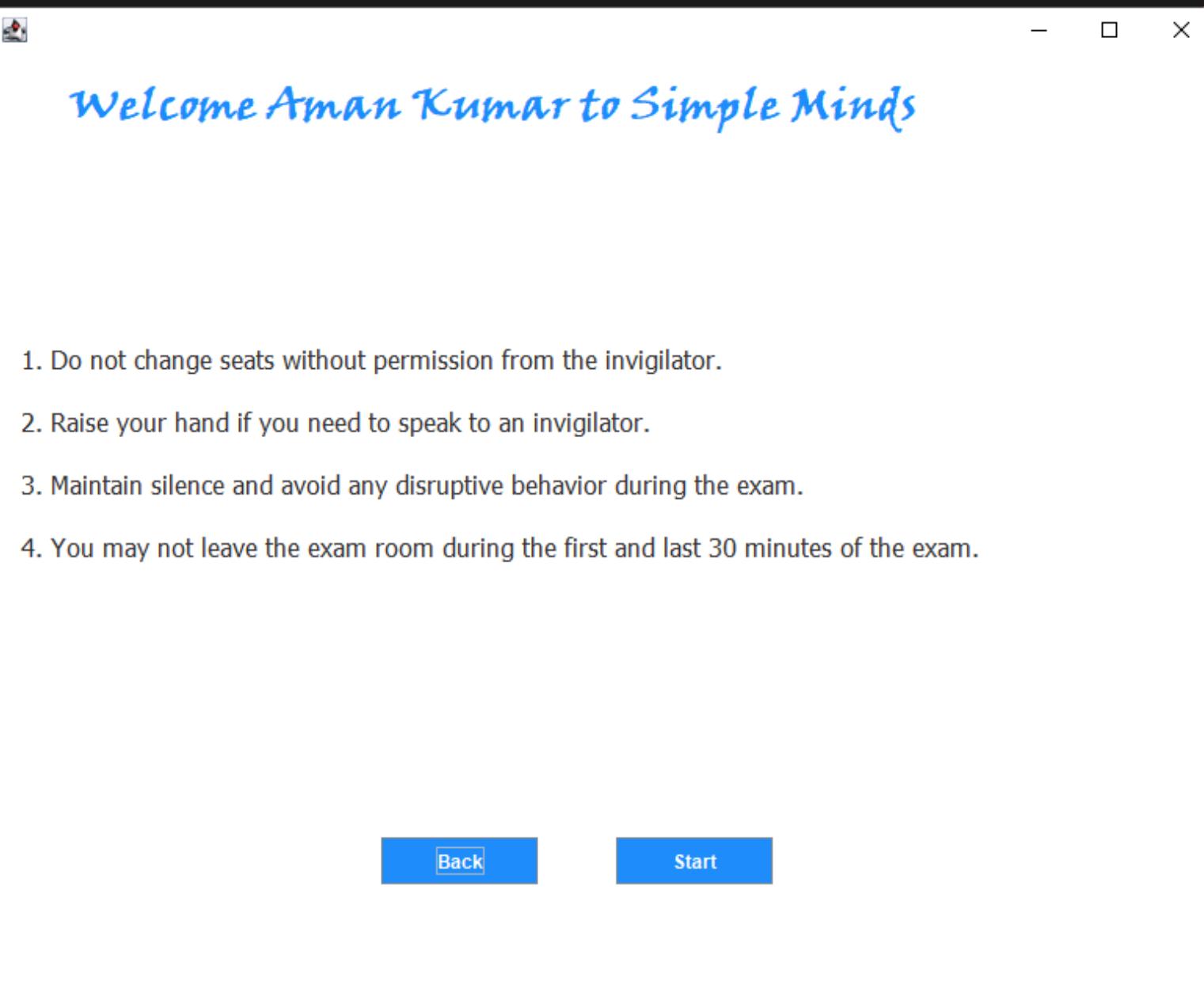
SCREENSHOTS

Login Page



SCREENSHOTS

Rules Page



SCREENSHOTS

Quiz Page



A screenshot of a quiz application window titled "Quiz Page". The background features a large, stylized word "QUIZ" in white on a purple gradient background, with several small illustrations of people using smartphones around it. The main content area displays a question and four multiple-choice options.

2. What is the capital of Australia?

Sydney
 Melbourne
 Canberra
 Perth

Time left - 15 seconds

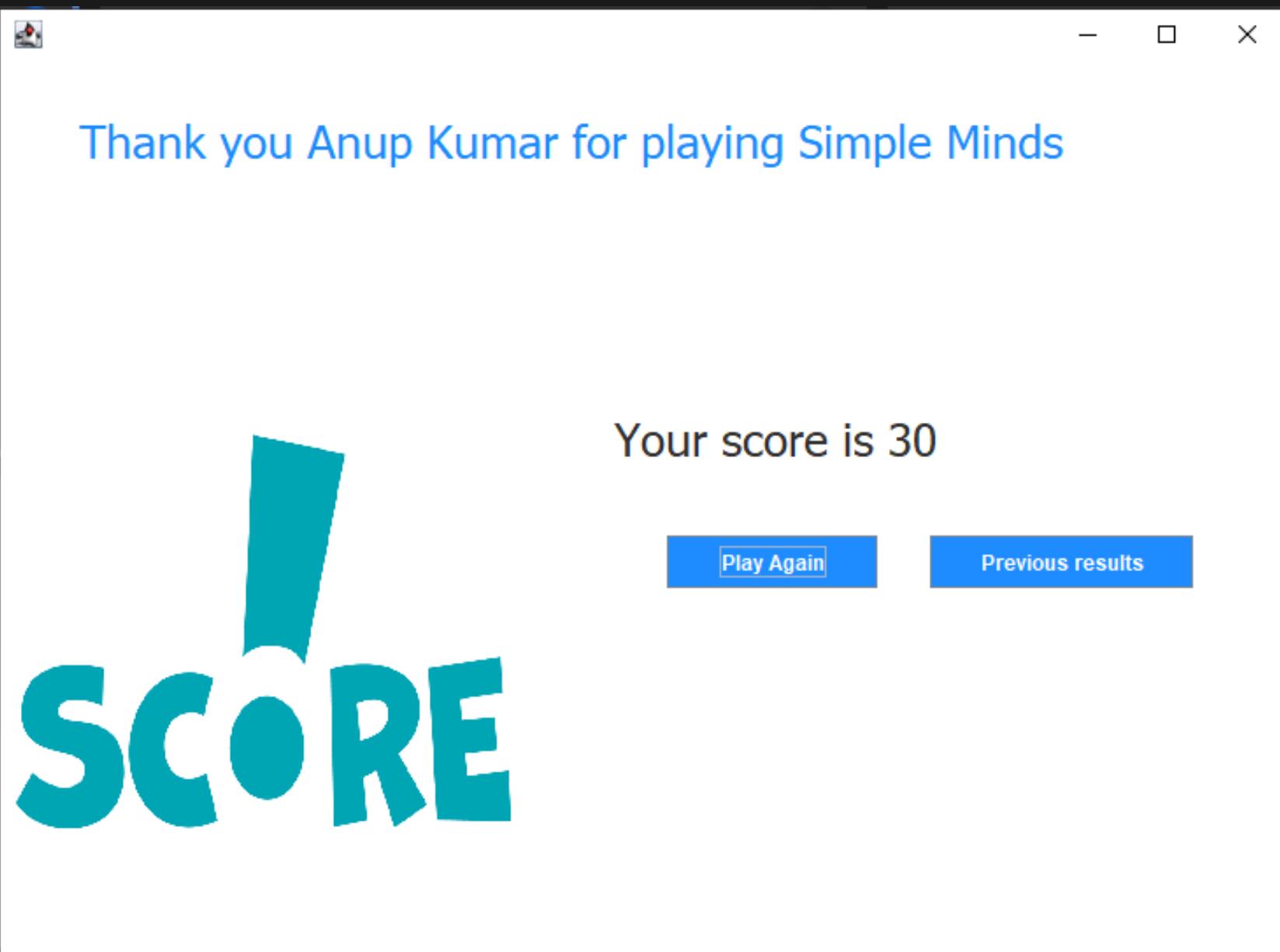
Next

50-50 Lifeline

Submit

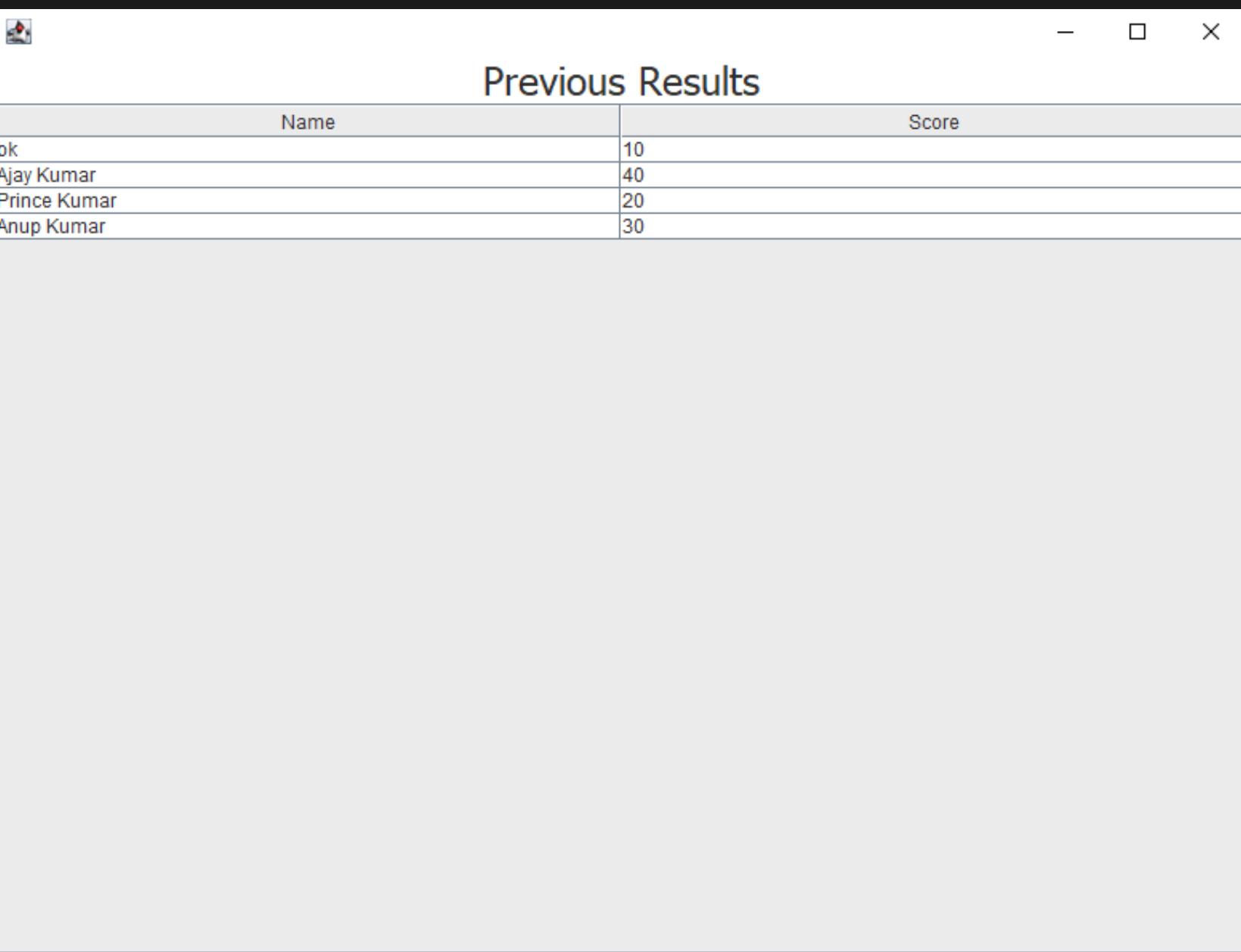
SCREENSHOTS

Result Page



SCREENSHOTS

Previous Results Page



A screenshot of a Windows application window titled "Previous Results". The window contains a table with two columns: "Name" and "Score". The data is as follows:

Name	Score
ok	10
Ajay Kumar	40
Prince Kumar	20
Anup Kumar	30

CONCLUSION

Fetching Questions:
Questions are retrieved from the MySQL database using JDBC queries, ensuring a dynamic set of questions for each quiz session.

1

User Interaction: Users interact with the application through the GUI built using Swing and AWT, answering questions within the 15-second time frame per question.

2

Scoring and Lifelines:
The application calculates scores based on correct answers and incorporates the 50-50 lifeline functionality to aid users in answering questions.

3

Displaying Previous Results: Utilizing JDBC, the application retrieves and displays previous quiz results stored in the database, allowing users to track their performance over time.

5

Results Storage: After completing the quiz, user scores along with their names are saved back into the MySQL database for future reference and to display previous results.

4

FUTURE SCOPE



Next Steps and Enhancements:

1. User Authentication: Implement user authentication to personalize quiz experiences and maintain privacy of results.
2. Enhanced UI/UX: Improve the user interface with modern design principles and responsiveness.
3. Additional Features: Consider adding features like timed quizzes, different difficulty levels, or multiplayer modes.
4. Error Handling and Validation: Strengthen error handling for database connections, user inputs, and quiz logic to enhance reliability.



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Q & A

Everes
Cantu



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THANK YOU!

