



PARSHWANATH CHARITABLE TRUST'S  
**A.P. SHAH INSTITUTE OF TECHNOLOGY**  
Department of Computer Science and Engineering  
Data Science



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# **MINI PROJECT 1-A**

## **(Topic selection)**

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**Computer Science and Engineering**  
**( Data Science )**

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# TOPIC 1 : Quiz Game with Dynamic Leaderboard

Is a multiplayer quiz game where players can compete in real-time or asynchronously. The SQL database will track users' scores and dynamically update a leaderboard that reflects the top players globally or within specific categories.



# FEATURES



**1.Game Modes:**  
Supports real-time multiplayer and asynchronous play.



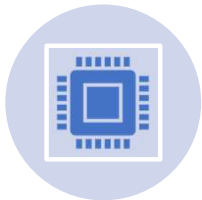
**2.Categories & Questions:**  
Players choose from different quiz categories with varied question types.



**3.Scoring System:**  
Points based on correctness and speed, with scores updated instantly.



**4.Dynamic Leaderboard:**  
Global and category-specific leaderboards, updated in real-time.



**5.Backend & Database:** Uses SQL for user, score, and game session tracking; WebSockets for real-time interactions.

# REQUIREMENTS

**Visual Studio Code:** To Write and Compile the code.

**Java:** jdk 17

**MySql:** To store the Data.



## TOPIC 2: Online Banking Portal

This Project aims to transform banking by offering a secure, user-friendly platform for managing accounts, making transactions, and accessing financial tools, all while ensuring a reliable and efficient banking experience.



# FEATURES



1. **\*Account Management\***: View balances and transaction history.



2. **\*Fund Transfers\***: Transfer funds and pay bills easily.



3. **\*Security\***: Multi-factor authentication and encryption.



4. **\*Personalized Insights\***: Budget tracking and spending analysis.



5. **\*Mobile Access\***: Compatible with smartphones and tablets.



6. **\*Customer Support\***: In-app chat and assistance.

# REQUIREMENTS

Programming  
Language : Java

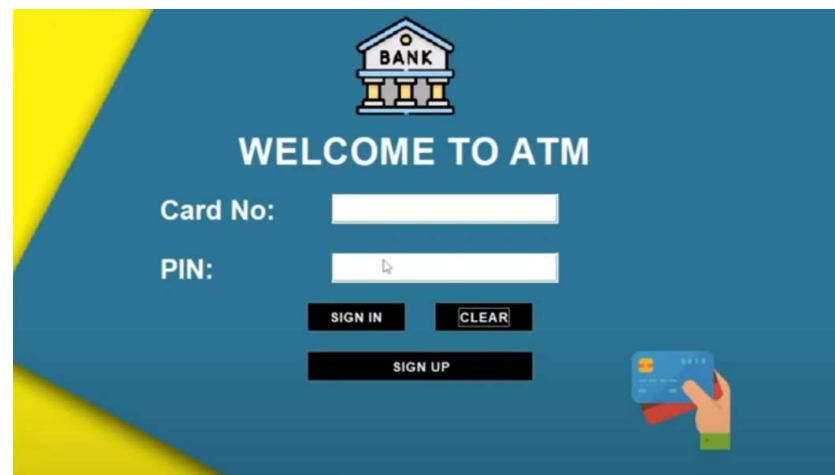
Required Tools: Spring  
boot, MySQL, AES  
algorithm, Maven,  
JSON, RESTAPIs,  
HTML, CSS/ ReactJs



## TOPIC 3: ATM MACHINE

The Online ATM Machine replicates real-world ATM operations offering a practical platform for secure login, account management, and financial transactions.

It serves as a valuable tool for banks, developers, and educators to understand and implement banking software solutions.





# FEATURES



**Secure Login/Sign in Page:** Provides a safe and intuitive way to access the ATM Machine.



**Account Registration:** Allows new users to create an account directly through the Machine.



**ATM Machine Interface:** Mimics real ATM operations for balance checks, withdrawals, and deposits.



**Transaction History:** Enables users to view their recent transactions and account activities.

# REQUIREMENTS

**Visual Studio Code:**  
To Write and  
Compile the code.

**Java: jdk 17**

**MySql: To store the  
Data.**





**Thank You**