PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering

Project Plan Document

Team-Details:

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1:Identify the lifecycle to be followed for the execution of your project and justify why you have chosen the model.

For this project, we've decided to employ the Agile and Scrum model due to the vast dynamic features of the model. Scrum will help us update the requirements as and when they change in multiple iterations.

2:Identify the tools which you want to use throughout the lifecycle like planning tools, design tools, version control, development tool, bug tracking, and testing tool.

- **Planning Tools:**
  - JIRA software
  - Notion.
- **Design Tools:**
  - Figma
  - Canva

- **Version Control:**
    - Git and GitHub
- **Development Tools:**
    - Visual Studio Code
    - Python 3.10
    - PyGame
    - NoSQL
- **Testing Tools**
    - Postman

3:Determine all the deliverables and categorise them as reuse/build components and justify the same.

The main Deliverable feature of the project is the ease of banking for any user.

The deliverables will mainly consist of 3 main frameworks:

1. User Interface:
    a. Welcome and Login Screen(BUILD): A secure way for the user to enter a passcode with respect to the bank
    b. Banking API(REUSE): Using existing bank API for each bank and integrating them together
    c. Connection to secure network(REUSE): Use existing well-established standards to make sure reliable and secure connectivity
2. Bank Interface:
    a. Inform about security breach(BUILD): The ATM should be able to inform and contact responsible parties effectively if and when there is an issue or security breach in the ATM which differs due to place and responsible parties
    b. Security updates and patches(BUILD): Depending on the vulnerability and new ways of entries into the system
3. Future Expansion:
    a. Software extension(REUSE): After the hardware and software are optimized can be reused to create numerous ATM systems with the same functionalities

4: <u>Create a WBS for the entire functionalities in detail.</u>

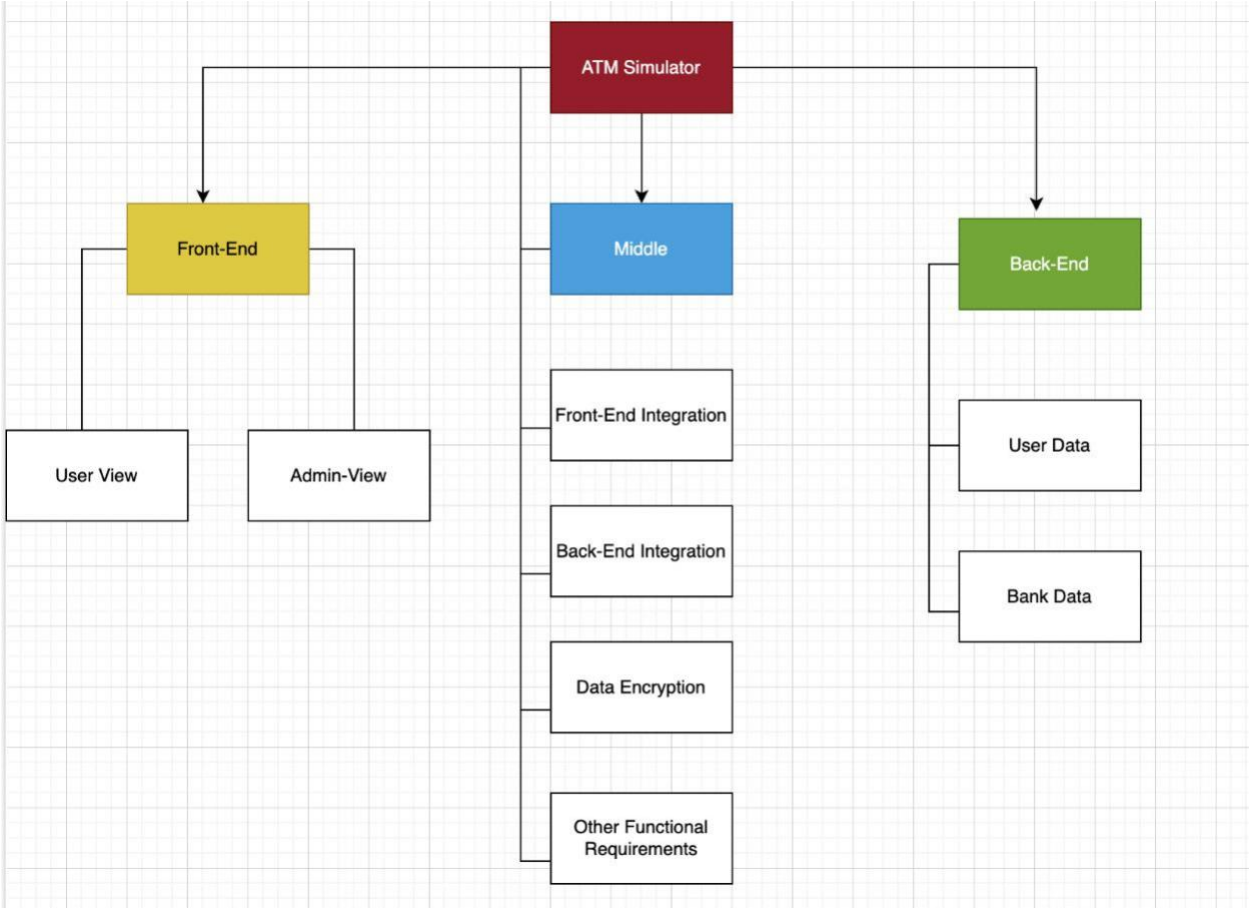
Team Member-1: Database Configuration

Team Member - 2: Admin Side Front- End

Team Member - 3: Data Encryption

Team Member - 4: User Side Front-End

Team Member - 5: Data Integration and Functional Requirements



5: <u>Do a rough estimate of effort required to accomplish each task in terms of person months.</u>

An s**emi-organic** cocomo model is chosen. Considering KLOC = 1.5

a = 2.5

b =1.5

Effort = a*(KLOC)^(b)

= 2.5*(1.5)^(1.5)

= 7.2618437741

6: <u>Create the Gantt Chart for scheduling using any tool.</u>