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| **PROJECT / GROUP NAME** | **Group 1** | | | |
| **Start Date** | 2025.2.25 | **Finish Date** | 2025.5.30 | |
| **Aim /**  **Objective** | Define the system’s architecture, data structure, database structure and API design to guide the development process. | | | |
| **Work package**  **Manager** | Ziheng Wang | | | |
| **Contributors to this package** | ALL | | | |
| **Description /**  **Activities** | Task 2.1 Technology Selection  2.1.1 Evaluate and choose a suitable system architecture  2.1.2 Select the technology stack for frontend and backend  Task 2: Design key business processes and create Sequence Diagrams.  Task 3: Data Structure and Database Design  2.3.1 Data Structure and Database Design  2.3.2 Design the database schema and create ER Diagrams  Task 4: API Design  2.4.1 Define API endpoints, request parameters, and response formats  2.4.2 Write API documentation for frontend-backend integration  Task 5: Compile all system design outputs into the System Design Document (SDD) | | | |
| **Milestones** |  | | | Week |
| M 2.1: Completion of Technology Selection, with finalized architecture and technology stack.  M 2.2: Interaction design phase completed, with Sequence Diagrams reviewed and approved.  M 2.3 Class Diagrams and ER Diagrams finalized and reviewed.  M 2.4 SSD Release | | | **March W2**  **March W3**  **March W4**  **April W1** |
| **Deliverables** |  | | | Week |
| D 2.1:Sequence Diagrams  D 2.2 Class Diagram  D 2.3 ER Diagram  D 2.4 API Document  D 2.5 SSD  . | | | **March W3**  **March W4**  **March W4**  **April W1**  **April W1** |