**SE Project Proposal**

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| **PROJECT NAME** | Transportation Management System | | |
| **PROJECT TEAM** | 1. Sama Haitham Sammar 2. Aya Basem Zayed  3. Malak Ashraf AbuSaifain 4. Asala Sadat AbuSamra | | |
| **TEAM LEADER** | Sama Haitham Sammar | | |
| **EST. START DATE** | 6/12/2024 | **EST. FINISH DATE** | 6/2/2025 |

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| **Problem Statement** | * **The Problem**: There is a significant challenge in managing transportation services effectively. * **Who It Affects**: Passengers who require reliable and timely transportation services. Transportation companies struggle with vehicle management and scheduling. * **Impact**: Dissatisfied users due to delays or inefficient management. Wasted time and resources for transportation companies, resulting in financial losses. * **Solution**: Developing a Transportation Management System that allows users to search for available transport options, book rides, and track vehicles in real-time. The system will also help transportation companies manage their vehicles and schedules more efficiently. |
| **Goals and Objectives** | * **Goals**:   1-Enhance user experience by simplifying booking and tracking processes.  2-Improve vehicle and schedule management efficiency for transportation companies.  3-Reduce passenger waiting times and increase service quality.   * **Objectives**:   1-Build an easy-to-use interface for booking and tracking rides.  2-Design a comprehensive database to manage vehicle and schedule information.  3-Integrate a GPS tracking system to provide real-time location updates. |
| **Main contributions** | * Improving the quality of transportation services and reducing the gap in traditional systems. * Providing a new system that is flexible and easy to use compared to current systems. * Supporting digitization in the transportation sector to enhance the effectiveness of operations management. * Benefiting society by providing convenient and safe transportation services and improving the operational efficiency of companies. * Analyze real-time data to make better decisions in the event of an emergency. * The system will help reduce operational costs for transportation companies by automating many tasks and improving the efficiency of routes. * Reduce traffic jam by providing efficient schedules and real-time tracking. |
| **Stockholders** | 1-Passengers who rely on transportation services.  2-Public and private transportation companies.  3-Drivers operating within the system.  4-Government entities regulating transportation. |
| **Phases of work and desired outcome** | The project will pass through three phases as follows:   * **Phase 1**: Software specification (requirements engineering) aims to produce an agreed requirements document that describes the features of the system * **Phase 2**: System modeling aims to develop abstract models of the system using the Unified Modeling Language (UML). * **Phase 3**: System design aims to make the right decisions of what architectural patterns or styles might be utilized to design the system organization that will satisfy the functional and non-functional requirements.   More details for each stage will be provided to you later.  System implementation and development is not required in this course |
| **PROJECTED SCHEDULE** | |  |  |  | | --- | --- | --- | | Phase | Start date | End Date | | Phase 1 | 10/5/2024 | 10/6/2024 | | Phase 2 | 10/6/2024 | 1/7/2024 | | Phase 3 |  |  | | Project presentation | 3-4/ 7/ 2024 |  | |

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| **ACCEPTANCE OF PROPOSAL** | | | |
| **Evaluation result** |  | **Notes** |  |