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Computing**



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Mohammed VI
Polytechnic

Agile Scrum Report

Morocco Drive

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Sprint 1: Initialization

Sprint Goal:

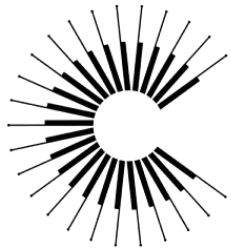
To set up the development environment, finalize the project requirements, and create the project structure.

Completed Tasks:

1. Finalized user stories and acceptance criteria.
2. Set up the repository with an initial project structure.
3. Configured development tools:
 - Java JDK
 - Spring Boot
 - MySQL database.
4. Drafted the initial database schema.
5. Developed initial classes for User and Driver.

Challenges:

- Ambiguity in user story requirements.
- Initial delay in configuring development tools across all team members.



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Duration:

- This sprint took 1 week

Backlog Items:

- As a developer, I want to have clear instructions to set up the project so that I can start working quickly.
- As a team member, I want a defined project structure to understand where to place new code

Sprint 2: Backend Setup

Sprint Goal:

To implement the foundational backend services required to support user and driver functionalities.

Completed Tasks:

1. Refactored the project structure to improve maintainability.
2. Created basic service interfaces for Ride, User, and Driver functionalities.
3. Implemented basic CRUD operations for User, Driver, and Ride entities.



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Challenges:

- Synchronizing the service layer with the repository structure.
- Clarifying service responsibilities to reduce redundancy.

Duration:

- This sprint took 3 weeks

Backlog Items:

- As a user, I want a way to register so that I can access the system.
- As a driver, I want to provide my details so that I can be assigned rides.

Sprint 3: Core Development

Sprint Goal:

To implement core features, including user authentication and ride management.

Completed Tasks:

1. Implemented JWT-based authentication for login and registration.
2. Developed APIs for:
 - User and Driver registration.



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- Login functionality.
- 3. Implemented database models for Ride, Vehicle, and License.
- 4. Designed a email verification for login and registration.
- 5. Developed the requestRide functionality.

Challenges:

- Managing database relationships between Driver, Ride, and Vehicle, especially ensuring cascade operations worked as expected.
- Coordination among team members while working on interconnected modules, leading to occasional merge conflicts.
- Initial bugs in user authentication due to incorrect JWT token generation logic, which were resolved after debugging.

Duration:

- This sprint took 3 weeks

Backlog Items

- As a user, I want to request a ride so that I can travel conveniently.
- As a driver, I want to view and accept ride requests so that I can start earning.
- As a user, I want a way to register so that I can access the system.
- As a driver, I want to provide my details so that I can be assigned rides.



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Sprint 4: Integration and Testing

Sprint Goal:

To integrate all implemented features, complete unit testing, and validate functionality with mock data.

Completed Tasks:

1. Integrated ride management with the database and driver assignment.
2. Completed unit tests for:
 - Authentication.
 - Ride management.
 - OTP Validation
 - Payment handling.
3. Fixed bugs identified during testing.

Challenges:

- Addressing edge cases in ride management logic (e.g., no available drivers).

Duration:

- This sprint took 3 weeks



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Backlog Items:

- As a user, I want to confirm my ride using an OTP so that I feel secure.
- As a driver, I want to complete rides and view payment details.

Sprint 5: Finalization

Sprint Goal:

To finalize the application, document all features, and ensure readiness for GitHub release.

Completed Tasks:

1. Reviewed all features for consistency and completeness.
2. Performed a final round of code reviews and refactoring.
3. Updated README file to include project details, setup instructions, and API documentation.
4. Pushed the finalized codebase to GitHub.

Challenges:

- Ensuring all team members reviewed and agreed upon the final documentation.
- Identifying and fixing minor inconsistencies in the codebase during the review.

Duration:

- This sprint took 1 week and a half

Backlog Items:

- As a user, I want clear documentation of the app's features so that I can use it effectively.
- As a team, we want the code pushed to GitHub so that it is accessible and ready for future improvements.