Sprint 1: Version Control Setup and Initial Scraping Development
08-04-2024 ➔ 19 – 04 -2024

To lay the groundwork for the project with a solid version control system and the initiation of web scraping script development.

Tasks:

1. Initialization of a Git repository for efficient management and tracking of source code changes.
2. Definition of a straightforward branching strategy to facilitate parallel development of features and bug fixes.
3. The crafting of web scraping scripts tailored to each key supplier's website for tire data collection.
4. Setup of a README file in the repository, detailing initial project setup instructions and basic contribution guidelines.

Sprint 2: Advanced Web Scraping and Data Normalization
22-04-2024 ➔ 03 – 05 -2024

To develop web scraping scripts and establish a process for the normalization of the collected data.

Tasks:

1. Continued development of web scraping scripts, with a focus on robustness and the ability to handle dynamic content.
2. Implementation of a data normalization process to standardize information from different sources, ensuring consistency across the application.
3. The initiation of work on ethical scraping practices to ensure compliance with legal standards and web usage policies.
4. Development of a mechanism for the regular updating of the application database with the latest scraped information to keep data fresh and relevant.

Sprint 3: Backend Infrastructure and API Development
06-05-2024 ➜ 17 – 05 -2024

To build out the backend infrastructure for storing collected data and to start the development of APIs for frontend-backend communication.

Tasks:

1. Design and implementation of a robust database schema for efficient storage and management of tire data, user accounts, and supplier information.
2. The beginning of RESTful API development to enable secure and scalable communication between the frontend and backend systems.
3. Groundwork for the implementation of business logic related to price comparison, filtering, and sorting of tire data.

Sprint 4: Frontend Development and Data Display
20-05-2024 ➜ 31 – 05 -2024

To develop frontend components for displaying tire information and to implement the Quick Finder feature.

Tasks:

1. Creation of the Tire Information Display section to show detailed specifications, pricing information, and supplier details.
2. Implementation of the Quick Finder feature, including a search bar, dynamic filtering options, and sorting functionality.
3. Refinement of data integrity and security measures to ensure the reliability and security of the application's data.

Sprint 5: User Authentication System and Final Adjustments
03-06-2024 ➜ 14 – 06 -2024

To implement the user authentication system and make final adjustments to the project before initial testing.

Tasks:

1. Development of a secure login page with username and password input fields, including the implementation of password encryption for safe storage.
2. Finalization of session management to maintain user state across different pages of the application.
3. An update to the README file with comprehensive project details, including the latest setup instructions, usage guidelines, and updated contribution processes.