**Requirements Document**

**P-CB04 - Group 3**

***Z. A. P.***

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# **Version Table**

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| --- | --- | --- |
| **Version** | **Date** | **Changes** |
| 1.0 | 20 September 2021 |  |
|  |  |  |

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# Description

Zap’s app will be a webapp, it will show data about subscribed vehicles. Select any vehicle to view all completed trips, in here this data is viewable and downloadable for further use by data analysts.

# Problem

Vehicles are equipped with a telematics solution, this gives a constant data stream containing whereabouts and other relevant data about the given fleet. This datastream is constant but some entries are unreliable, there might be faulty data and missing or double entries. This means that it takes data analysts a long time to filter out and correct the problematic entries, that’s where we come in.

# The Solution

Our application will receive the input data stream, and separate the constant stream into trips. Slightly deviating data will be averaged, like gps location and speed, while completely nonsensical data will be filtered out. The results will be formatted and enriched using maps for ease of use.

# User Story

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **User Story** | **Priority** | **Estimate** |
| US-1 | The feet owner and the driver should be able to view enriched trips that connected with their vehicle(s), so that they can make use of all the trip data  **Acceptance Criteria**   * All of the trip data is filtered and any corrupt or false data is discarded. * The filtered trip data is displayed as a created trip. |  | 8 |
| US-2 | Admin should be able to view all enriched trips, so that they can make use of all the trip data  **Acceptance Criteria**   * All of the trip data is filtered and any corrupt or false data is discarded. * The filtered trip data is displayed as a created trip. |  | 8 |
| US-3 | The fleet owner and the driver should be able to see the history of created trips that connected to the vehicle that they are connected to so they can keep track of them all  **Acceptance Criteria**   * Created trips are stored in a database. |  | 13 |
| US-4 | Admin should be able to see the history of all the trips so the admin can keep track of it.  **Acceptance Criteria**   * Created trips are stored in a database. |  | 13 |
| US-5 | All the user should be able to view the road they travelled upon, so that they can use it for further reference  **Acceptance Criteria**   * The data regarding the road that the trip started, travelled through and ended on is displayed. |  |  |
| US-6 | The fleet owner and the driver must be able to see detailed information about the vehicle that they are connected to so that they can determine what vehicle made what trip.  **Acceptance Criteria**   * After selecting a trip the information of the vehicle that made the trip is displayed |  | 8 |
| US-7 | Admin should be able to see all the detailed information about the vehicle so that they can determine what vehicle made what trip.  **Acceptance Criteria**   * After selecting a trip the information of the vehicle that made the trip is displayed |  | 8 |
| US-8 | Admin should be able to get nicely formatted data packets in the JSON format so that the information is easier to understand and work with.  **Acceptance Criteria**   * All data is displayed in JSON format. |  | 5 |
| US-9 | All the user should be able to login so that they can gain access to the application.  **Acceptance Criteria**   * User successfully logs in with the provided username and password. |  | 8 |
| US-10 | Admin should be able to create a new user  **Acceptance Criteria**  All data is displayed in JSON format. |  | 13 |
| US-11 | Admin should be able to create vehicle  **Acceptance Criteria**  All data is displayed in JSON format. |  | 13 |
| US-12 | Admin should be able to connect vehicle with the fleet owner and the driver  **Acceptance Criteria**  All data is displayed in JSON format. |  | 5 |
| US-13 | Admin should be able to activate and deactivate the vehicle  **Acceptance Criteria**  All data is displayed in JSON format. |  | 5 |
| US-14 | The fleet owner should be able to update the vehicle details  **Acceptance Criteria**  All data is displayed in JSON format. |  | 8 |