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| **Requirements**  **Document** |
| *Crossyn Automotive BV* |
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| |  |  | | --- | --- | | **Date** | 29-09-2021 | | **Version** | 1.0 | | **State :** | Review | | **Author :** | Group 4 | |

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# Description

Crossyn is a company which specializes in data analysis in the automotive world. They collect, analyze and enrich data they receive from vehicles connected to their platform and provide it to the specific customer. The vehicle data may include anything from reporting technical malfunctions to tracking different trips and analyzing driving behaviour. What is more, Crossyn provides their service to both corporate and private clients. Corporate clients may include but are not limited to insurers, vehicle fleet owners and dealerships.

Crossyn has alot of data provided by cars they want to use. To be precice they want to make trips out of this data. This way they can take valubale information out of the data they collected. They asked us to create a app that can do this for them.

The goal of the app is to transform the provided data into correct routes. This is done by filtering the data and splitting and merging it at the correct places.

The advantage of an app is that it could handle a lot of information at the same time. If someone had to make all the trips by hand it will take ages.

By this application we achieve an automated assessment systeem for the collected trips.

User stories priority:

1 – critical stories that must be delivered

2 – stories can be cut due to lack of time

3 – lower priority and need to be discussed

Estimation is done using few Fibonacci numbers. We have chosen 34, 55 and 89, because the difference of complexity is clearer than using smaller numbers.

# User Stories

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| Title: View trips | Priority: 1 | Estimate: 55 |
| As a user I want to see my trips so that I can see where I have been | | |
| Acceptance criteria:   * The start and end coordinates of each trip must be shown * Only the trips of the current user must be shown | | |

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| Title: Sort trips | Priority: 2 | Estimate: 34 |
| As a user I want to sort my trips so that I can have them organized. | | |
| Acceptance criteria:   * The trips can be sorted on date, road type, average speed. * The trips can be sorted ascending and descending. | | |

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| Title: View statistics | Priority: 1 | Estimate: 89 |
| As a user I want to see my average trip statistics so that I can have an estimation on my driving behaviour. | | |
| Acceptance criteria:   * Trip statistics should be retrieved for all trips. * The user is shown the average percentage they have been over the speed limit. * The user is shown the average speed they have * The user is shown the average road type the rode on * The user is shown the average time a trip took. | | |

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| Title: Road type | Priority: 2 | Estimate: 55 |
| As a user I want to see the road type I drove on so that I can get more information about my trips. | | |
| Acceptance criteria:   * Road type should be displayed. | | |

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| Title: View total distance | Priority: 2 | Estimate: 34 |
| As a user I want to see the distance I have travelled during each trip. | | |
| Acceptance criteria:   * The distance should be shown for each trip * The distance should be between the start and end point | | |

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| Title: Time frame | Priority: 2 | Estimate: 34 |
| As a user I want to see the timeframe of a trip, so that I know how much time it took me to complete it. | | |
| Acceptance criteria:  The timeframe of a trip should be displayed.  The time should be in hours and minutes. | | |

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| Title: Date | Priority: 2 | Estimate: 34 |
| As a user I want to see the creation date of a trip so that I know when I made the trip. | | |
| Acceptance criteria:   * The beginning of the trip should be displayed * The date should be in European format * The date and time of the day should be displayed | | |

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| Title: Trip overview | Priority: 1 | Estimate: 89 |
| As a fleet manager I want look at an overview of all my vehicles’ trips so that I know where my fleet has been. | | |
| Acceptance criteria:  If the user is not a fleet manager, they should not see other vehicles’ trips.  If the user is a fleet manager, they should see the trips of the vehicles they manage.  If a vehicle is part of a fleet, its trips should be displayed to the fleet manager. | | |