**Login**

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| Use Case | Login |
| Actors | Driver, Vehicle Owner |
| Description | This Use Case describes how a driver, vehicle owner can login to the system. |
| Trigger | When the user conform to login to the system. |
| Pre-condition | User must have registered to system before hand. |
| Post-condition | User login to the system success. |
| Normal scenario | 1. User conforms to get logged to the system. 2. System displays the login page. 3. User enters user name and password. 4. User conforms submission. |
| Alternative Scenario | 1-3 Continue.  3.1 If user forgets password.  3.1.1 User confirms that he/she forget password.  3.1.2 System displays a form to enter email address to recover password.  3.1.3 Enter email address and user name of the user correctly.  3.2.4 System sends and email to the user’s email address consistency of a link to the  System.  3.2.5 User conforms to view the link attached.  3.2.6 The system resets the password and send that to the email. |
| Additional Instructions | Security is highly ensured in this scenario. |
| Business Rules | User is allowed to try the password only three attempts. |

**Driver Concentration detection part**

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| Use Case | Driver concentration detection path. |
| Actors | Driver face detection camera, Driver. |
| Description | This Use Case describes and detects how drivers face emotions and concentration to the driver. |
| Trigger | When a driver gives the “Start journey” command. |
| Pre-condition | Driver(User) must have login to the system |
| Post-condition | Camera starts the functioning task it is assigned. |
| Normal scenario | 1. Successfully logged to the system. 2. “Start journey” command. 3. Front camera detects the face concentration detection. 4. According to the driver emotions system gives the reactions while end of the journey. |
| Alternative Scenario | 1. If user does not give a command then system gives a notification. 2. User gives his feedback “Start journey” or cancel. 3. Continue. |
| Additional Information | This Use Case can be subjected to change after the research. |

**Vehicle relative position detection part**

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| Use Case | Vehicle relative position detection part. |
| Actors | Front camera, Driver |
| Description | This Use Case describes how a vehicle is going on road according to correct relative positions. |
| Trigger | When a driver gives a “journey start” command. |
| Pre-condition | Driver (User) must have login to the system. |
| Post-condition | Front camera start the functionality tasks it’s assigned. |
| Normal scenario | 1. Successfully logged to the system. 2. “Start journey” command. 3. Front camera of vehicle detects the relative positions. 4. According to the driving system gives the reactions while end of the journey. |
| Alternative Scenario | 1. If user does not give a command then system gives a notification. 2. Users gives his feedback “Start journey” or “cancel”. |
| Additional information | This Use Case can be subjected to change after the research. |

**Vehicle Movement Analyzing Part**

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| Use Case | Orientation/acceleration |
| Actors | Driver, movement analyzing unit, system. |
| Description | This Use Case describes how a movement analyzing unit gives the reactions according to driving of the driver. |
| Trigger | When the user confirms to login and start the movement analyzing unit. |
| Pre-condition | Driver (User) must have login to the system and switch on the movement analyzing unit. |
| Post-condition | Movement analyzing unit start and send data to system. |
| Normal Scenario | 1. Successfully log to the system. 2. “Start movement analyzing” command. 3. Movement analyzing unit sending the censored data over the Bluetooth to the system. 4. System gives the reaction according to the sent data. |
| Alternative Scenario | 1. If user does not give a “star movement analyzing” command then system gives a notification. 2. User give his feedback “Start movement analyzing” or cancel. 3. Continue. |
| Additional Information | This Use Case can be subjected to change after the research. |

**Report Generating Unit**

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| Use Case | Report generating |
| Actors | Vehicle owner, System |
| Description | This Use Case describes how a vehicle owner can get driving history report from the system. |
| Trigger | When User confirms to begin and “Report generate” to the system. |
| Pre-condition | Vehicle owner must have registered to system and give a command to “Report generate” command. |
| Post-condition | System will generate the text fill that related data file to journey. |
| Normal Scenario | 1. Successfully logged to the system. 2. “Report generate” command. 3. System will generate the data file related to particular journey. |
| Additional Information | This Use Case can be subjected to change after the research. |