Customer Requirements Specification

**Speed Bump MobileApp**

**ـــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

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# Document Status:

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| **Version** | V1.2 | |
| **Status** | Proposed | |
| **Author** | Marwa Mansour | |
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| **Team approval** | Marwa Mansour |  |
| **Mentor approval** | Esraa Abdelnaby |  |
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# Document History:

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Marwa Mansour | [29/10/2022] | * Initial Creation |
| 1.1 | Noorhan Hatem | [23/11/2022] | * Editing the format * Editing the requirements |
| 1.2 | Marwa Mansour | [24/11/2022] | * Add new requirement based on the change request |

# Reference Document:

|  |  |  |  |
| --- | --- | --- | --- |
| **Ref.number** | **Doc.Name** | **Version** | **Status** |
| 1 | PO\_SB\_CR\_SpeedBumps | 1.2 | Released |

#### 

# Project Description:

## Definition:

An application through which the user can be notified about the coming speed bumps on the road and the remaining distance between the car and the bump.

## Features:

* Different pricing plans.
* Users can control the ride.
* Alerting the user with the coming speed bumps.
* Asking for permission.
* Monitor HW device.
* Technical Issues reporting.

### Key Elements:

* Users shall have an account to start using the app.
* The mobile app shall contain a basic plan.

● The mobile app shall contain a premium plan.

● The mobile app shall contain the option to start and end the ride.

● The app shall alert the user with the coming bumps.

● The app shall alert the user with the remaining distance till the bump.

● The app shall save the bump’s location on the user’s GPS screen.

● Application shall guarantee user permission to use Bluetooth, location, etc.

● In the premium plan, the app shall ask the user for his/her permission to save the bumps on the ride

● Application shall be notified by the embedded device’s issues and status.

● Users can report any technical issue.

● Users can report any technical issue.

# 

# System Context:



# CRS Requirements:

# General

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| --- | --- | --- | --- |
| **Req\_ID** | PO\_SB\_CRS\_*001*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*003*-V1.2 |
| **Description** | The user shall sign up to have an account before start using the application. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*002*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*003*-V1.2 |
| **Description** | The user shall add his/her destination to use the “Start the ride “button, then the GPS screen appears. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*002*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*003*-V1.2 |
| **Description** | The user shall end the ride by using the “End the ride” button. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*004*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*005*-V1.2 |
| **Description** | The app shall voice notify the user with the remaining distance till the coming detected bump. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*005*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*007*-V1.2 |
| **Description** | The app shall ask the user for his/her permission to access the location of the user to open the gps map. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*006*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*008*-V1.2 |
| **Description** | The saved data will appear on the map so the user shall know the location of the saved bumps before starting the ride. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*007*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*010*-V1.2 |
| **Description** | The user will be able to report any issue that occurs. | | |

## Basic Plan

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| **Req\_ID** | PO\_SB\_CRS\_*008*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*001*-V1.2 |
| **Description** | The application support “monthly”,” yearly” subscription to the basic plan users. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*009*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*001*-V1.2 |
| **Description** | The detected speed bumps shall be based on the historical data of the previously saved bumps. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*009*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*001*-V1.2 |
| **Description** | The detection in the pasic plan is not early detection like the premium plan. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*010*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*004*-V1.2 |
| **Description** | In the basic plan, the app shall voice notify the users about all saved speed bumps on the road in the historical data. | | |

## Premium Plan

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| **Req\_ID** | PO\_SB\_CRS\_*011*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*002*-V1.2 |
| **Description** | If the user chooses the premium plan, he/she will be redirected to the website to by the hardware. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*012*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*004*-V1.2 |
| **Description** | In the premium plan, the app shall voice notify the users about the detected speed bumps on the road. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*013*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*006*-V1.2 |
| **Description** | The app shall save the data of the bump’s location on the screen to help the user know the location. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*014*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*007*-V1.2 |
| **Description** | The app shall ask the user for his/her permission to access the Bluetooth to connect with the hardware. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*015*-V1.2 | **Covers** | PO\_SB\_CR\_ MobileApp\_*008*-V1.2 |
| **Description** | At the end of the ride the app shall ask the user to save the data of the bumps on the ride. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*016*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*009*-V1.2 |
| **Description** | The status of the hardware shall appear in the application. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*017*-V1.2 | **Covers** | PO\_SB\_CR\_MobileApp\_*009*-V1.2 |
| **Description** | If there is any issue with the embedded device the application shall be notified. | | |