Customer Requirements Specification

**Speed Bump MobileApp**

**ـــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ**

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# **Document Status:**

|  |  |  |
| --- | --- | --- |
| **Name** | PO\_SB\_CRS\_MobileApp | |
| **Version** | V1.1 | |
| **Status** | Proposed | |
| **Author** | Noorhan Hatem | |
| **Date** | [31/10/2022] | |
| **Team approval** |  |  |
| **Mentor approval** |  |  |
| **Final approval** |  |  |

## Document History:

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Change** |
| 1.0 | Marwa Mansour | [29/10/2022] | * Initial Creation |
| 1.0 | Noorhan Hatem | [31/10/2022] | * Edit Some requirements |
| 1.0 | Noorhan Hatem | [23/11/2022] | * Editing the format * Editing the requirements |

### 

### Reference Document:

|  |  |  |  |
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| **Ref.number** | **Doc.Name** | **Version** | **Status** |
| 1 | PO\_SB\_CR\_SpeedBumps | 1.1 | 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:

● 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*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*003*-V1.1 |

| **Req\_ID** | PO\_SB\_CRS\_**002**\_V1.0 | **Covers** | PO\_SB\_ CR\_MobileApp\_**001**-V1.1 |
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| **Req\_ID** | PO\_SB\_CRS\_**003**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**002**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**004**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**003**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**005**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**003**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**006**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**004**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**007**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**004**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**008**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**005**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**009**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**006**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**010**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**006**-V1.1 |
| **Description** | In the basic plan, the app shall show the bump’s location from the saved data from the premium users. | | |
| **Req\_ID** | PO\_SB\_CRS\_**011**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**007**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**012**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**007**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**013**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**008**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**014**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**008**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**015**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**009**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**016**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**009**-V1.1 |
| **Req\_ID** | PO\_SB\_CRS\_**017**\_V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_**010**-V1.1 |

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| **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*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*003*-V1.1 |
| **Description** | The user shall end the ride by using the “End the ride” button. | | |



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| **Req\_ID** | PO\_SB\_CRS\_*003*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*005*-V1.1 |
| **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\_*004*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*007*-V1.1 |
| **Description** | The app shall ask the user for his/her permission to access the location of the user to open the map for him/her. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*005*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*008*-V1.1 |



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| **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\_*006*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*010*-V1.1 |
| **Description** | The user will be able to report any issue that occurs. | | |

# Basic Plan

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| **Req\_ID** | PO\_SB\_CRS\_*007*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*001*-V1.1 |
| **Description** | If the user chooses the basic plan, he/she shall pay for monthly or yearly subscription. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*008*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*001*-V1.1 |
| **Description** | If the user chooses the basic plan, the detected speed bumps shall be based on the historical data of other users(the premium plan users). | | |

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| **Req\_ID** | PO\_SB\_CRS\_*009*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*004*-V1.1 |
| **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\_*010*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*002*-V1.1 |
| **Description** | If the user chooses the premium plan ,he/she shall buy the hardware detection device . | | |

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| **Req\_ID** | PO\_SB\_CRS\_*011*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*004*-V1.1 |
| **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\_*012*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*006*-V1.1 |
| **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\_*013*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*007*-V1.1 |
| **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\_*014*-V1.0 | **Covers** | PO\_SB\_CR\_ MobileApp \_*008*-V1.0 |
| **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\_*015*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*009*-V1.1 |
| **Description** | The status of the hardware shall appear in the application. | | |

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| **Req\_ID** | PO\_SB\_CRS\_*016*-V1.0 | **Covers** | PO\_SB\_CR\_MobileApp\_*009*-V1.1 |
| **Description** | If there is any issue with the embedded device the application shall be notified. | | |