**Use Cases**

**for**

**<**ParkGo**>**

**Version 2.0**

**Prepared by <Chen Yi / Nate>**

**<Ironheart>**

**<04-02-22>**

**Revision History**

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Chen Yi | 21-01-22 | Creating Use Cases | 1.0 |
| Nate Chin Woon Ping | 04-02-22 | Refining Use Cases | 2.0 |

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| Use Case ID: | 1.0 | | |
| Use Case Name: | Land on ParkGo Webpage | | |
| Created By: | Chen Yi | Last Updated By: | Nate |
| Date Created: | 3/2/2021 | Date Last Updated: | 4/2/2021 |

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| Actor: | User |
| Description: | Access to ParkGo webpage |
| Preconditions: | Userenter ParkGo.com in the browser |
| Postconditions: | ParkGo webpage is successfully displayed |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | Userwill be redirected to the ParkGo.com successfully |
| Alternative Flows: | Userenter ParkGo.com in the browser |
| Exceptions: | NIL |
| Includes: | NIL |
| Special Requirements: | The webpage url should not be broken and webpage should be responsive display on all devices |
| Assumptions: | Userwants to use ParkGo.com |
| Notes and Issues: | NIL |

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| Use Case ID: | 2.0 | | |
| Use Case Name: | Search nearby carparks using current location | | |
| Created By: | Chen Yi | Last Updated By: | Nate |
| Date Created: | 3/2/2022 | Date Last Updated: | 4/2/2022 |

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| Actor: | User |
| Description: | Tap on ‘Find Parking Near Me’ to allow User to access the list of carparks near User’s current location within a 5km radius. |
| Preconditions: | Userhave enabled location sharing to show their location |
| Postconditions: | Usersuccessfully see a list of carparks nearby her current location |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. Usertab on ‘Find Parking Near Me’ 2. The browser displays a popup and ask for User permission to grant access to User’s current location 3. User tabs on ‘Allow’ 4. Userwill be redirected to a Map with a list of carparks nearby User current location, which is ranked by distance by default. |
| Alternative Flows: | 1. User tabs on ‘Block’ for the location permission popup 2. The permission popup will be closed 3. The browser will remain on landing page |
| Exceptions: | The system is unable to get current location |
| Includes: | NIL |
| Special Requirements: | NIL |
| Assumptions: | NIL |
| Notes and Issues: | NIL |

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| Use Case ID: | 3.0 | | |
| Use Case Name: | Search for carparks within 5km radius of input destination | | |
| Created By: | Chen Yi | Last Updated By: | Nate |
| Date Created: | 3/2/2022 | Date Last Updated: | 4/2/2022 |

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| Actor: | User |
| Description: | Input a specific destination and nearby carparks within a 5km radius will appear on the map. |
| Preconditions: | User selects the “Go to Destination” option |
| Postconditions: | User is able to see the list of carparks near the input destination. |
| Priority: | High |
| Frequency of Use: | High |
| Flow of Events: | 1. User inputs the destination to search for the carparks 2. A list of carparks ranked by distance is displayed successfully. |
| Alternative Flows: | - |
| Exceptions: | Search Error if the searched destination does not exist |
| Includes: | 1.0 Land on ParkGo.com |
| Special Requirements: | NIL |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | 4.0 | | |
| Use Case Name: | User ranks the list of carpark by hourly charged rate | | |
| Created By: | Chen Yi | Last Updated By: | Chen Yi |
| Date Created: | 3/2/2022 | Date Last Updated: | 3/2/2022 |

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| Actor: | User |
| Description: | Select to rank the list of carparks by hourly charged rate (from lowest to highest) |
| Preconditions: | User sees a list of carparks based on searched location or current location |
| Postconditions: | User should see the list of carparks ranked by hourly charged rate from lowest to highest |
| Priority: | Medium |
| Frequency of Use: | Medium |
| Flow of Events: | 1. User taps on “cheapest” 2. The list of carparks has ranked by hourly rate from lowest to highest |
| Alternative Flows: | User will see the location as before if there is only 1 location in the carpark list |
| Exceptions: | The API is down |
| Includes: | UC 2.0 Search nearby carparks using current locations  UC 3.0 Search nearby carpark by input specific location |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | 5.0 | | |
| Use Case Name: | Navigate to the carpark that User selected | | |
| Created By: | Chen Yi | Last Updated By: | Nate |
| Date Created: | 3/2/2022 | Date Last Updated: | 4/2/2022 |

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| Actor: | User |
| Description: | Navigate to the selected carpark near the selected destination. |
| Preconditions: | User selects a carpark from the list of carparks to get a route. |
| Postconditions: | User will see a route on the map to navigate to the selected destination. |
| Priority: | Medium |
| Frequency of Use: | High |
| Flow of Events: | 1. User taps on “NAVIGATE” icon 2. User will see a route appearing on the map showing the shortest distance from the current location to the selected carpark. |
| Alternative Flows: | Nil |
| Exceptions: | Nil |
| Includes: | UC 2.0 Search nearby carparks using current locations  UC 3.0 Search nearby carpark by input specific location |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |

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| Use Case ID: | 6.0 | | |
| Use Case Name: | Check traffic status and travel time for route to selected carpark | | |
| Created By: | Nate | Last Updated By: | Nate |
| Date Created: | 4/2/2022 | Date Last Updated: | 4/2/2022 |

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| Actor: | Users |
| Description: | Check traffic status on map for route before navigating to destination |
| Preconditions: | User selects a carpark from the list of carparks to get a route. |
| Postconditions: | User will see traffic conditions on the map for the selected route. |
| Priority: | Medium |
| Frequency of Use: | High |
| Flow of Events: | 1. User taps on “NAVIGATE” icon 2. User will see a route appearing on the map showing the shortest distance from the current location to the selected carpark. 3. Route will show traffic conditions and travel time |
| Alternative Flows: | 1. User taps on “NAVIGATE” |
| Exceptions: | Nil |
| Includes: | UC 2.0 Search nearby carparks using current locations  UC 3.0 Search nearby carpark by input specific location |
| Special Requirements: | - |
| Assumptions: | - |
| Notes and Issues: | - |