**Use Cases**

**for**

**<iPark>**

**Version<0>**

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**<CS411>**

**<2/16/16>**

Use Case List

|  |  |  |
| --- | --- | --- |
| ID | Primary Actor | Use Case Title |
| 0 | Renter | Leshen successfully searches for Parking Spot |
| 1 | Space owner, Renter | Haggling |
| 2 | Space owner, Renter | Payment |
| 3 | Renter | Renter profile creation |
| 4 | Space owner | Space owner profile creation |
| 5 | Space owner and Renter | Reviews and comments for profiles |
| 6 | Space owner  and Renter | Advanced scheduling/reserving |

Use Case Template

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | 0 | | |
| Use Case Name: | Leshen successfully searches for Parking Spot | | |
| Created By: | Group 3 | Last Updated By: | Ji Eun Yang |
| Date Created: | 2/16/16 | Date Last Updated: | 2/16/16 |

|  |  |
| --- | --- |
| Actors: | Space owner, Renter |
| Description: | Leshen wants to park his car for a baseball game. He has difficulty finding public parking and looks to iPark. He successfully parks nearby in someone’s private space he rented. After his game he gets his car and leaves. |
| Trigger: | There is an excessive high demand for parking in a localized area. |
| Preconditions: | 1. Space owners have already registered rentable spaces nearby.  2. All actors are authenticated.  3. Leshen is already in his car looking for parking. |
| Postconditions: | 1. Leshen finds and sends a request to an available. |
| Normal Flow: | 0.0 Location services provide Leshen’s location  0.1 App finds available spaces near the location  0.2 App sends Leshen a list of nearby options, ranked by price and distance  0.3 Leshen chooses one and requests it |
| Alternative Flows: | 0.0 ibid  0.1 ibid  0.2 There are no available spaces nearby |
| Exceptions: | 0.0.E.0 Unavailable space is listed as available space.  0.0.E.1 Owner accepts 2 requests at conflicting times.  0.0.E.2 DoubleBookedChecker() checks if the location and time are double booked.  0.0.E.3 One person is removed from the spot  0.0.E.4 An apology message is sent to the removed person telling them they’ve been bumped and also blaming the spot owner  0.0.E.5 They’re given a try again option and prioritized in some way  0.0.E.6 The owner is told off. Perhaps penalized. |
| Includes: | DoubleBookedChecker() |
| Priority: | 1. Web portal 2. User authentication 3. Database |
| Frequency of Use: | 3-5 times over a ten minute span. Probably once or so a week. |
| Business Rules: | None |
| Special Requirements: | Must update states of available parking quickly. |
| Assumptions: | 1. It’s not easy for users to find available public parking spots  by driving around that area.  2. There are people who would like to rent out their private parking spaces.  3. Users want a way to rent parking spots. |
| Notes and Issues: | None |