**الاسم:كيرلس ابراهيم ناجح**

**التيم ليدر:ماجي صموئيل فرح**

**سكشن:2**

**مجموعة:2**

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| **Use case name:** find a place to park | **ID:** UC-1 | | Priority: High |
| **Actor:** application users | | | |
| Description: the user specifies the slot needed to park his car by entering some information about his car. The system satisfies the request by reserving a requested parking slot or another slot and storing the request in the database. | | | |
| Trigger: a user needs a slot to park his car.  Type: External | | | |
| Preconditions:  1-the user should have an account.  2-the user has a necessary training to use the app.  3-the parking database is up to date. | | | |
| Normal Course:   1. request a place from parking slot 2. The user specifies which time he needed. 3. The system lists all the available slots. 4. The user chooses the slot he needs from the list displayed. 5. The system asks the user to confirm the request for the slot needed or the available slots (Alternative Course 1.1). 6. The system gives the user authorization for the slot requested.   6-The system stores the request in the database and updates the available slots. | | Information for Steps:  ⃪ time  ⃪ List of available slots  ⃪ slot needed  ⃪ Request confirmation    → parking pick-up  Authorization  → parking request | |

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| Alternative Courses:   * 1. the specific slot is not available at the specific time (Branch at step 4)  1. the system asks the user if he wants the available slot or cancel the request.   2a. the user asks to reserve the available slot.  3a. the systems changes the requested slot to available one.  4a. the system gives the user authorization for the slot available.  5a. the system stores the parking request in parking management system and updates the available slots.  2b. the user asks to cancel the request.  3b. the system terminates the use case. | | | ⃪ Request slot available  → Parking Pick-up Authorization  → parking request  ⃪ Cancellation | |
| Postconditions:   1. The parking request is stored in the parking management system. 2. The parking pick-up authorization is produced for the user. 3. The parking supply warehouse is notified of parking pick up. | | | | |
| Exceptions:  E1: There is no empty slots at the specific time   1. The system displays message “sorry there is no empty slots at the specific time”. 2. The system asks the user if he wants to put him on the waiting list or to exit.   3a. the user asks to be put on the waiting list.  4a. The system starts alternative course.  3b. The user asks to exit.  4b. The system terminates the use case. | | | | |
| Summary Inputs | Source | Outputs | | Destination |
| Time  list of available slots  slot needed  request confirmation  request slot available  cancellation | User  Parking supply database  user  user  user  user | Parking pick-up authorization  Parking request | | User  Parking request database |