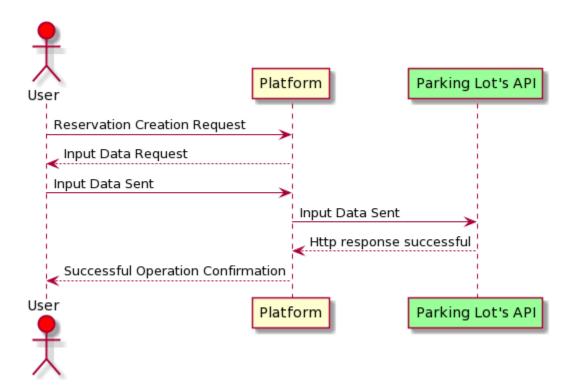
# UC 3 – Reservation Management

#### **BRIEF**

User accesses main platform so he can manage a reservation. Create a new one, read the details of already made ones, update information about them (Parking spot, Start date, End date) and/or Delete a previously made one. The user selects an operation (CRUD)\* and inputs the data required. The Platform sends the data to a Parking Lot's API so it can be stored. The Parking Lot's API sends a HTTP response to the Platform which then sends the confirmation of a successful operation to the User.

\*in case of a Create, it is needed the validation of availability of a parking spot.



# **Fully Dressed**

**Designation:** Create Reservation

Primary Actor: User

#### Stake Holders and Interests:

- User: possibility of user creating a Reservation for a parking spot of his choice.
- Parking Lot and Platform: selling their services.

#### **Preconditions:**

- User must be authenticated.
- Central API must possess a valid authentication token for the Parking Lot's API so it can be authenticated.
- Parking spot must be available upon reservation creation (can't be reserved already for that date).

#### **Postconditions:**

- Parking Spot is not available for the duration of the reservation.
- Reservation is saved for future consultation.

#### Main Success Scenario (or standard one):

- 1. User accesses platform to create a new reservation.
- 2. Platform asks for the Parking Lot as well the time/date of the reservation.
- 3. User inputs said data.
- 4. Platform queries the Parking Lot's API to get a return of the available parking spots for that Parking Lot and date.
- 5. Parking Lot's API returns all the available parking spots as well as the HTTP response assigned (HTTP 200 OK).
- 6. Platform displays those parking spots with their details (base price per hour, location) and orders the user input on the duration of said reservation.
- 7. User inputs the data and confirms.
- 8. Platform returns the total price for said reservation as well its details and asks for a confirmation.
- 9. User confirms.

- 10. Platform sends the data to the Parking Lot's API which in turn gets a HTTP response as confirmation (HTTP 201 Content Created).
- 11. Platform sends reservation confirmation via email and returns a "Successful Operation" Message to the User.

#### **Extensions (alternative flow):**

#### <u>Platform tries to Read, Update or Delete a reservation that does not exist.</u>

• API returns a HTTP response of "Not Found" (HTTP 404)

#### User wants to UPDATE a reservation.

- 1. User accesses platform and picks the reservation he wants to UPDATE.
- 2. Platform gives the option to change date and or parking lot.
- 3. User inputs new data.
- 4. Platform shows the changes and asks user for confirmation.
- 5. User confirms.
- 6. Platform sends data to Parking Lot's API to UPDATE the reservation data.
- 7. API returns a HTTP response of success "No Content" (HTTP 204).
- 8. Platform displays a "Successful Operation" message to the User.

### User wants to Delete A Reservation.

- 1. User accesses platform and picks the reservation he wants to DELETE.
- 2. Platform shows its details and asks for a confirmation.
- 3. User confirms.
- 4. Platform sends request Parking Lot's API.
- 5. API returns a HTTP response of success "No Content" (HTTP 204).
- 6. Platform displays a "Successful Operation" message to the User.

#### INPUT DATE IS NOT VALID.

- Platform shows a "Wrong Input" message to the user.
  OR
- API returns a HTTP response of "Bad Request" (HTTP 400).

## <u>Platform validation TOKEN is faulty and or has insufficient permissions.</u>

1. API returns an "Unauthorized" (HTTP 401) response or "Forbidden" (HTTP 403).