USE CASES
BBQReserver

Developer: Team 4

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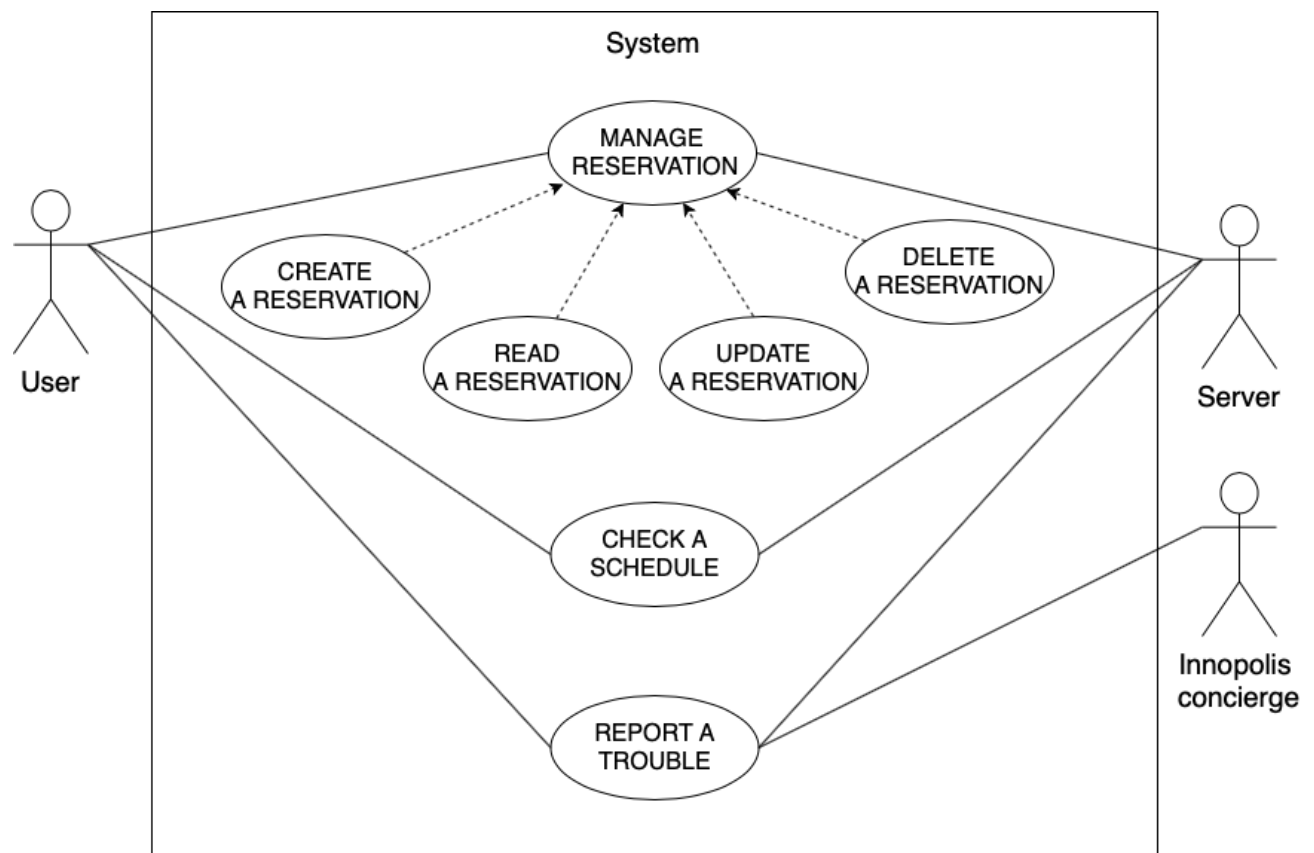Marvin Lopez
Valeriia IUrinskaia

Received Requirements

- System must be built on Telegram bot technologies.
- User should be able to add, delete, modify the reservation.
- User should be able to see the list of all his reservations.
- User should be able to make multiple reservations.
- User should be able to see the reservations schedule (for day, week, month).
- User should be able to report to concierge service about troubles in the BBQ zone.
- Bot should recommend a different hour if the requested time is already booked.

Features Requirements

- User must interact with the system mostly with buttons and input some non-discrete data as a text
- User must enter his/her phone number in every reservation
- User should be able to add comments to the reservation.
- User should be able to add only one reservation per 12 hours.
- Limit should be 1 month for reservation period.

Use Case diagram

Use case scenarios

Use Case Code US001	Update reservation record
Actors	User, Server
Pre-conditions	User has a reservation record and request update
Assumptions	User wants to update something in his record

Flow of events	1. User request update for his record
	2. User choose data to modify
	3. System validates the data
	   3.1 If new data is valid - modify record
	   3.2 If something went wrong - return error
	4. User receive confirmation message

Post-conditions	Server informs the user is update successful or not
Alternate flow	There could be some system or network error, send user notification to try again

Use Case Code US002	Create a new reservation
Actors	User, Server
Pre-conditions	The user wants to reserve the time at the BBQ place
Flow of events	1. User clicks "Create new reservation" button 2. User enters a time interval 3. Server checks if the time interval is unavailable 4. Server approves the time interval 5. User enters a comment (optional) 6. User approves his reservation request 7. Server saves reservation to the schedule
Post-conditions	The schedule is updated by adding a new entry.
Alternate flows and exceptions	The time interval that the user entered is not available

Alternative Name	The inputted time interval is not available
Actors	User, Server
Insertion point	4. Server checks if the time interval is unavailable
Pre-conditions	The inputted time interval is not available
Flow of events	1. Server proposes a time that is close to inputted one 2. User selects one of the proposed time intervals 3. Server approves the time interval
Post-conditions	Server has approved time interval for reservation

Use Case Code US003	Delete a booking record
Actors	User, Server
Pre-conditions	User has a booking record
Assumptions	-
Flow of events	1. User press modify button 2. User press delete button 3. System asks for confirmation 4. System delete the record 5. User receives confirmation message
Post-conditions	The reservation is deleted.
Alternate flow	1. User cancels the operation 2. System return to the Modify screen

Use Case Code US004	Read reservation record
Actors	User, Server
Pre-conditions	Reservation exists
Assumptions	The user want to check his reservation
Flow of events	User enters the system and click it reservation User see his reservation data and can edit it or read
Post-conditions	none
Alternate flow	Network error, system suggest user to try again

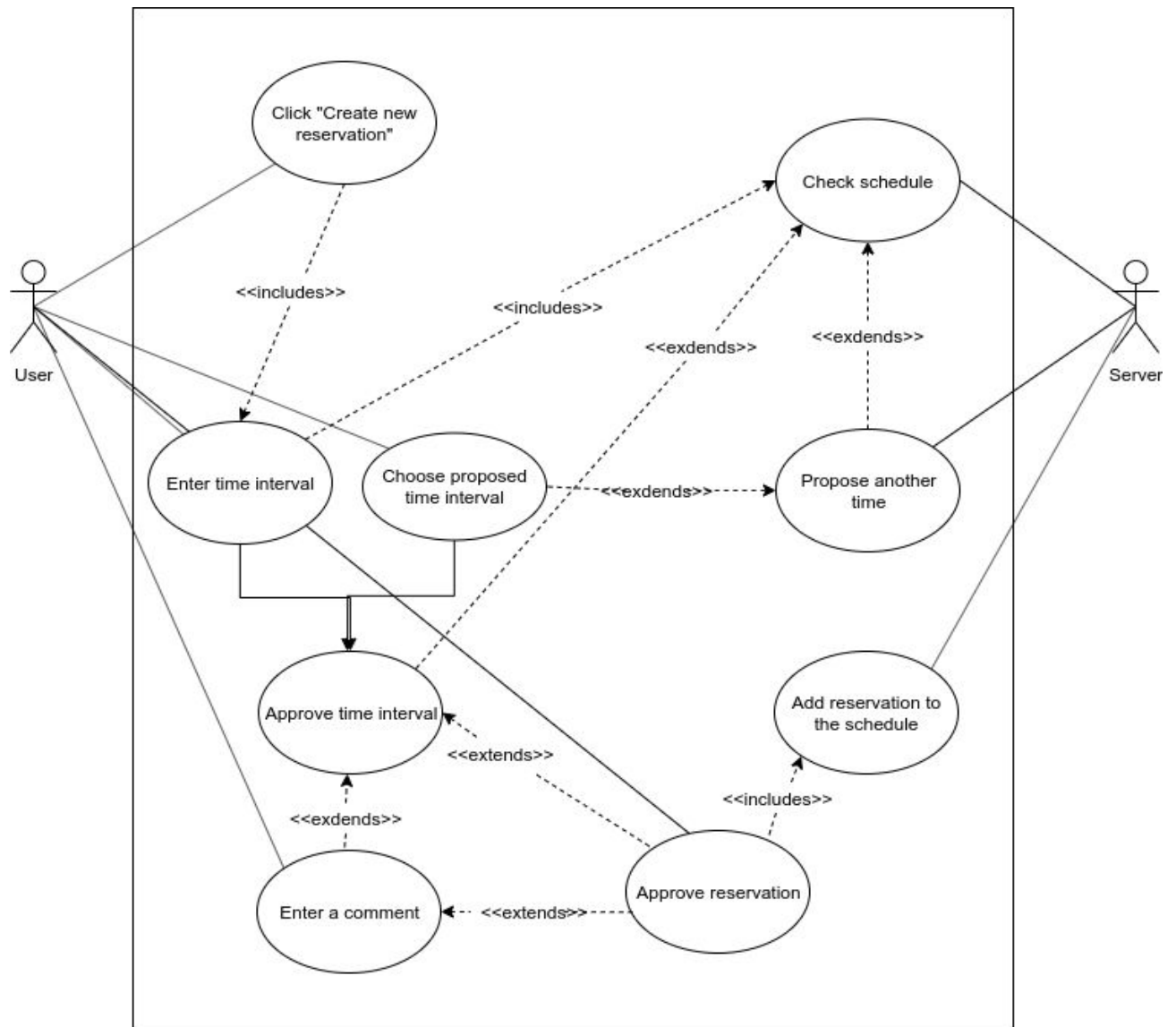| Use Case Code US005	Checking a schedule
Actors	User, Server
Pre-conditions	The user's location is in the system, the system shows to the user main menu
Assumption	The user wants to view the schedule for some time period (day, week, month)

Flow of events	1. The user selects a schedule check in the menu
	2. The system prompts the user to select a time period
	3. The user selects a time period
	    a. The user selects daily schedule
	    b. The user selects weekly schedule
	    c. The user selects monthly schedule
	4. The system generates a schedule for the selected time period
	5. The system shows the schedule to the user

Post-conditions	The system shows to the user schedule of chosen time period
Alternative flows	-

Use Case Code US006	Report a Trouble
Actors	User, Server, Innopolis concierge
Pre-conditions	-
Assumptions	The user has an internet connection
Flow of events	1. User press "Report" button 2. User fill the form for "Report a Trouble" 3. User Attach a photo 4. User Submit the report 5. System register the report 6. System forward information to Innopolis concierge
Post-conditions	Innopolis concierge receive the report
Alternate flow	1. User cancels the operation 2. System return to Home Page 1. User insert non-supported image format 2. System display error message 3. System return to Home Page

Glossary of relevant domain terminology

User	Anyone using the system
Server	The application backend
System	Barbecue reservation system including all its features
Innopolis concierge	Innopolis city assistance
Booking record	A new system approved reservation record
Schedule	
	Daily schedule - day intervals for booking
	Weekly schedule - weekly time data
	Monthly Schedule - monthly time data
Selecting of time period	Select start and end time for booking
Home Page	telegram bot starting interface

Appendix

"Create reservation" use case

"Check the schedule" use case