Class-Responsibility-Collaborator (CRC) Cards

Event

Responsibilities:

- Manage event details (name, organizer, start time, end time, layout style, etc.)

- Handle ticket purchase and cancellation

- Manage reservations and waitlist

- Load and save events from/to a file

- Check if the event is within operating hours

- Provide event details and a detailed view

- Check if the reservation time is within event time

- Set event accessibility for residents and non–residents

- Parse time strings

Collaborators:

- User

- Reservation

FacilityManager

Responsibilities:

- Add, create, and cancel events

- Manage the facility budget

- Get and manage the schedule of events

- Update facility budget

Collaborators:

- Event

- Schedule

- Reservation

- HelperFunctions

HelperFunctions

Responsibilities:

- Print menu

- Handle user creation and login

- Handle reservations and cancellations

- List all reservations

- View detailed event and reservation info

- Create events

- Handle payments

- Get Yes/No input from the user

Collaborators:

- User

- Reservation

- Event

- FacilityManager

- Schedule

Reservation

Responsibilities:

- Manage reservation details (ID, user, event, status, cost, etc.)

- Calculate cost

- Make payment and process refund

- Load and save reservations from/to a file

- Provide detailed view of reservation

Collaborators:

- User

- Event

- FacilityManager

Schedule

Responsibilities:

- Add and remove events

- Check event availability

- View the schedule

- Find an event by name

Collaborators:

- Event

User

Responsibilities:

- Manage user details (username, password, type, reservations, etc.)

- Add and manage reservations

- Check weekly reservation limit

- Login and logout

- View and edit user info

- Process refunds

- Load and save users from/to a file

- Check if a username is taken

- Retrieve user by username

Collaborators:

- Reservation

- Event

CityUser

Responsibilities:

- Specific functions for city users

Collaborators:

- User