

Facility and Reservations: The facility opens from 9am to 9pm every day and can accommodate events with no more than 25 guests. This facility will be used for **events** organized by the City as well as other citizens (which may include city's residents and non-residents). City's reservations get priority over other reservation requests if requests were made more than 7 days before the event date/time. Any event request made within 7 days will be approved on first-come-first-serve basis. The cost of reserving events includes a standard service charge of \$10 and an hourly rate which is \$10 per hour for residents, \$15 per hour for non-residents, and \$5 per hour for the City. The event requests can only be confirmed when full payment is made. If an event is canceled within 7 days period, it will incur a penalty of 1% of rent amount and any cancellation request made earlier than 7 days before the start of the event will not incur any penalty. However, service charge is non-refundable.

There is no limit to how many events anyone can reserve facility for but the facility has placed limits on how long one can reserve the facility for: city can reserve it for no more than 48 hours per week (7 day week). All others reservations cannot exceed 24 hours per week.

The facility allows 2 types of events (public and private). Users will be able to purchase tickets for public events. No tickets will be sold for private events. Organizers should have the ability to decide if the event is open to residents and/or non-residents. Each event reservation request must specify the {layout} style required for the set up of the room which includes one of the 4 options: Meeting style, Lecture style, Wedding Style, and Dance Room Style.

Facility manager will receive the reservation requests and will approve them when full payment is received. Reservation requests will remain pending until full payment is made. Manager will also maintain the facility's budget and process refunds upon cancellation of events.

The facility allows city events to be reserved with only 3 layout styles (meeting, lecture and dance). All other events may be reserved with any of the 4 layout styles.

Ticketing System: Any user can view the list of events organized at the facility (for a given time, range of hours, day or week). Your software should allow all users to view basic event details include event name, organizer, start and end time, cost of ticket, room setup, and other requirements or details.

For public events, users should be able to purchase the ticket(s) for the event (if available). There will be no tickets sold for private events. Similarly, software should enforce attendance requirements (i.e., if an event is open for residents of the city, non-residents should not be able to purchase a ticket). The cost of tickets is specified by the event organizer. Tickets are confirmed when payment is received.

When more seats become available (upon some ticket holder's decision to cancel his/her seat), entries from the waitlist are processed in the first come first serve order. If the event is canceled by the organizer, all tickets are canceled and the fees are automatically refunded.

User - subtypes: City, Resident, Non-Resident	<ul style="list-style-type: none"> • Wallet
<ul style="list-style-type: none"> • Store user info (ID, wallet, reservations, tickets, etc.) 	

Wallet	
<ul style="list-style-type: none"> • Store wallet info (balance) • Deposit cash • Remove cash • Check cash 	

DateTime	
<ul style="list-style-type: none"> • Store month/day/year/time • Add DateTime • Compare DateTime • Read and create a time object from user input 	

Event (Private Event) - subtype: Public Event	<ul style="list-style-type: none"> • User • DateTime • LayoutStyle
<ul style="list-style-type: none"> • Store (guestList, event DateTime, isPrivate, attendanceRequirement (ex. if you must be a resident or not), style, isPaid) • Add guest (and confirms that there are at most 25 guests) • Purchase ticket and give the ticket to the user • Refund/Cancel 	

LayoutStyle	
<ul style="list-style-type: none"> • Store style (one of: Meeting style, Lecture style, Wedding Style, Dance Room Style) 	

CommunityCenter	<ul style="list-style-type: none"> • Events • Users • FacilityManager
<ul style="list-style-type: none"> • Store space data (registered users and the facility manager) • Run 	

FacilityManager	<ul style="list-style-type: none">• Event
<ul style="list-style-type: none">• Store space data (calendar of events)• Confirms event• Create/Remove event• Print Calendar	