Tarif Khan, Rahul M., Daniel Veretenov

Final Report

All GITHUB FILES CAN BE FOUND AT: Design Docs

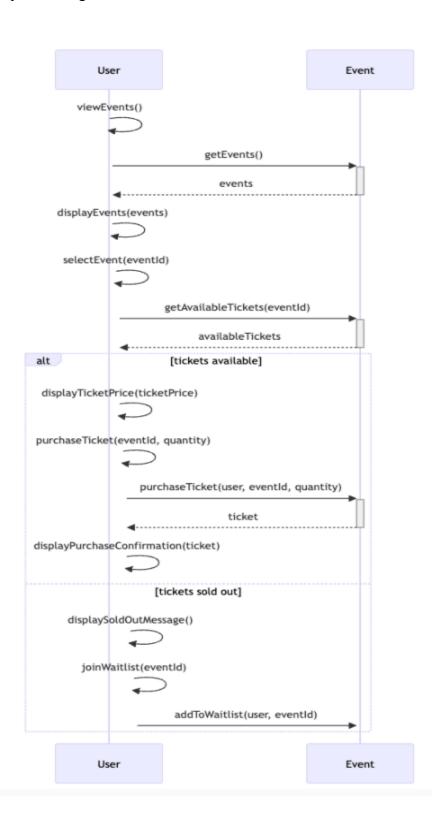
CRC CARDS:

| 1 | + | + |
|--|--|----------------|
| 2 | Class: User | Collaborators: |
| 3 | | - Reservation |
| 4 | Responsibilities: | - Event |
| 5 | - User types | - Ticket |
| 6 | - User information | l I |
| 7 | - Login | l I |
| 8 | - View schedule | l I |
| 9 | - Make reservation | l I |
| 10 | - Cancel reservation | l I |
| 11 | + | ++ |
| 12 | | |
| 13 | + | ++ |
| 14 | Class: Reservation | Collaborators: |
| 15 | 1 | - Facility |
| 16 | Responsibilities: | - User |
| 17 | - Reservation details | - Event |
| 18 | - Calculate cost | l I |
| 19 | - Enforce rules | l I |
| 20 | - Process payment | l I |
| 21 | - Cancel reservation | l I |
| 22 | + | ++ |
| 23 | | |
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| 24 | + | + |
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| 24 | • | |
| 24 25 26 | Class: Facility | Collaborators: |
| 24 25 26 | Class: Facility | Collaborators: |
| 24 25 26 27 | Class: Facility Responsibilities: | Collaborators: |
| 24 25 26 27 28 29 | Class: Facility Responsibilities: - Facility details | Collaborators: |
| 24 25 26 27 28 29 | Class: Facility Responsibilities: Facility details Availability | Collaborators: |
| 24 25 26 27 28 29 30 | Class: Facility Responsibilities: - Facility details - Availability - Schedule | Collaborators: |
| 24 25 26 27 28 29 30 31 | Class: Facility Responsibilities: - Facility details - Availability - Schedule | Collaborators: |
| 24 25 26 27 28 29 30 31 32 | Class: Facility Responsibilities: - Facility details - Availability - Schedule | Collaborators: |
| 24 25 26 27 28 29 30 31 32 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits - Class: Event | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits - Class: Event | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits - Class: Event Responsibilities: | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits Class: Event Responsibilities: - Event details | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits + | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits Class: Event Responsibilities: - Event details - Attendees - Ticket sales | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits + | Collaborators: |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 | Class: Facility Responsibilities: - Facility details - Availability - Schedule - Reservation limits Class: Event Responsibilities: - Event details - Attendees - Ticket sales - Waitlist - Cancellations | Collaborators: |

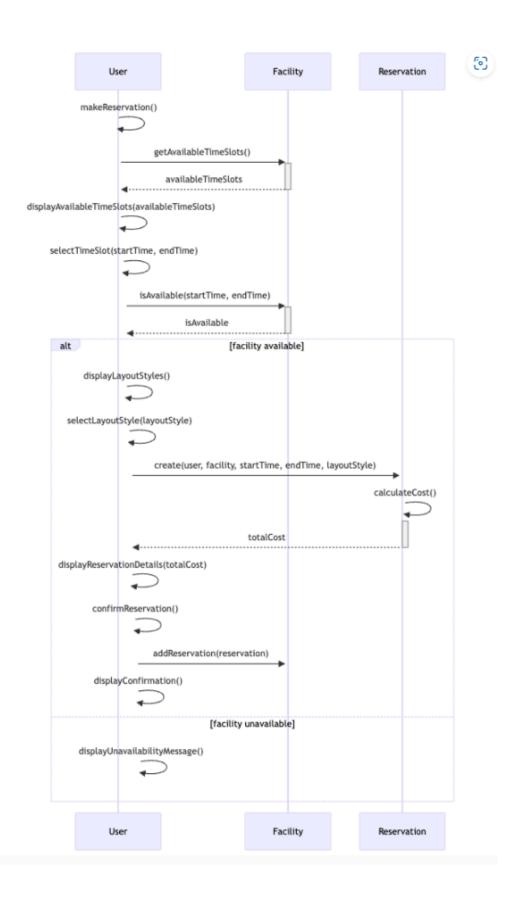
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|---|----------------|--------------------------|
| Class: Ticket | Collaborators: | 1 |
| 1 | - User | |
| Responsibilities: | - Event | |
| - Ticket details | | |
| l - User | | i |
| - Event | | i |
| - Price | | 1 |
| t | | 1 |
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| Class: FacilityManager | Collaborators: | + I |
| Class Gellicy Grand | - Facility | 1 |
| | | 1 |
| Responsibilities: | - Reservation | 1 |
| - Manage budget | ! | ! |
| - Approve reservation | 1 | |
| - Process refund | I | I |
| + | + | + |
| | | |
| + | + | + |
| Class: CityUser | Collaborators: | 1 |
| | - User | 1 |
| Responsibilities: | 1 | 1 |
| | | 1 |
| - Inherits from User | | |
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| - Inherits from User - Additional city-spec: details and behavior: | | |
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| - Additional city-spect details and behaviors Class: NonResident Responsibilities: - Inherits from User | Collaborators: | + + |
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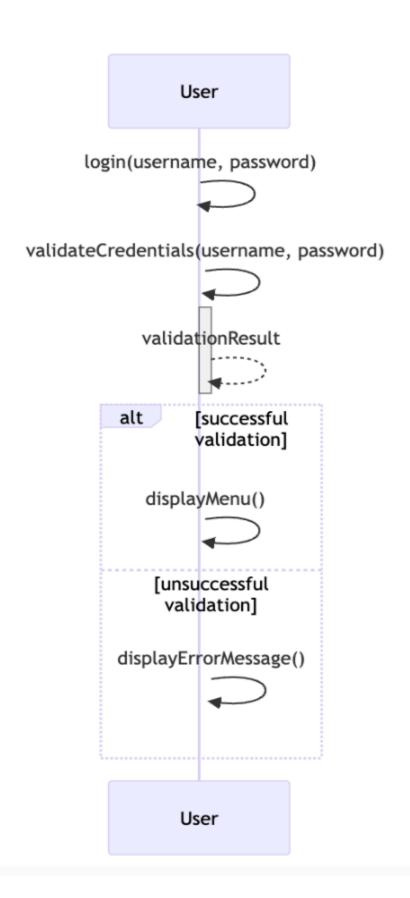
Sequence Diagrams:

Event Sequence Diagram:



Purchase Ticket Sequence Diagram:





UML Diagram:

