Online reservation system for restaurants and cafes

Project team :

Project name: Online reservation system for restaurants and cafes		
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"RestBook"
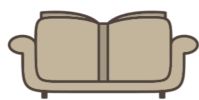
RestBook

Use Case Diagrams:

Use-Case Diagrams

Customer
- Create Account
- Log in/out account
- View Info/Modify/Cancelation ‹‹include›› View Past Reservations
- User Profile
- Delete Account
- Browse Restaurants ‹‹include›› Choose Date & Time & Quantity
- Rate Reservation
- Customer Service
  - Complaints
  - General Support

Manager
- Log in \ Log out
- Add New Restaurant
- Edit Restaurants Details ‹‹include›› Location, Contact info, etc.
- Manage Accounts ‹‹include›› Customer Accounts
- Remove Restaurant
- View customer Requests
  - Approve Request
  - Deny Request
- Reporting and insights ‹‹include›› reservation statistics report

Sequence Diagrams:

User Login Process:
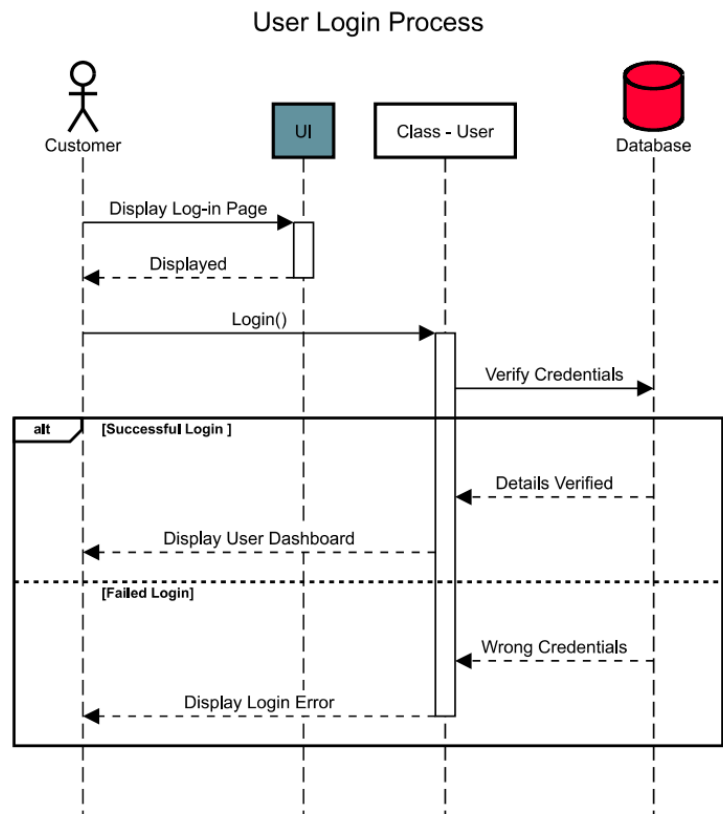
User Login Process

```
1 ⊠User Login SequenceDiagram
2
3  title User Login Process
4  actor Customer
5  participant UI #62929E
6  participant Class - User
7  database Database #ff0033
8
9
10 Customer -> UI: Display Log-in Page
11 activate UI
12 UI -->Customer: Displayed
13 deactivate UI
14
15
16
17 Customer->Class - User: Login()
18 activate Class - User
19 Class - User->Database: Verify Credentials
20
21 alt Successful Login
22     Database -->Class - User: Details Verified
23
24     Class - User-->Customer: Display User Dashboard
25 else Failed Login
26     Database -->Class - User: Wrong Credentials
27     Class - User-->Customer: Display Login Error
28         deactivate Class - User
29
30 end
```

Order Managment:
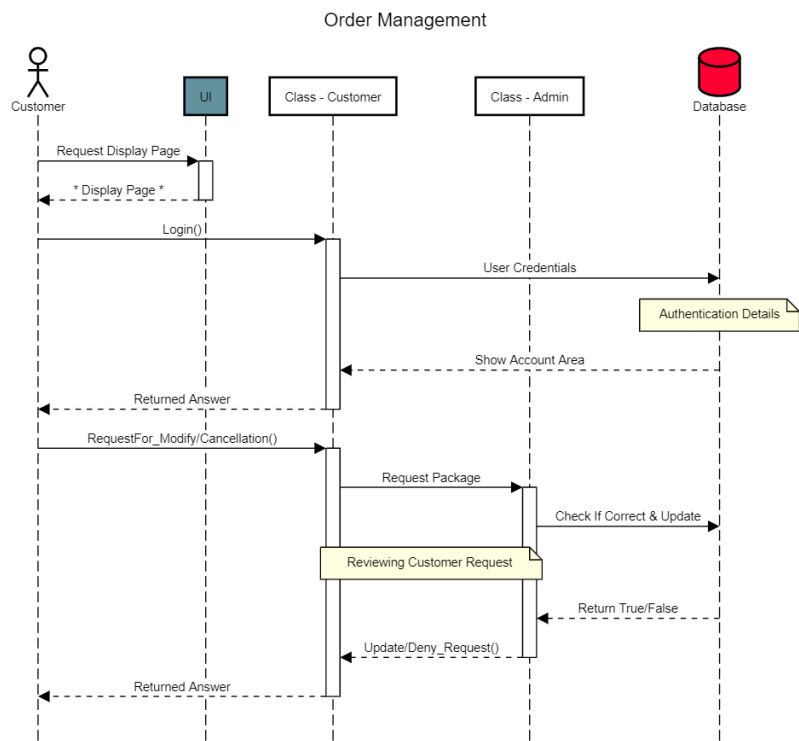
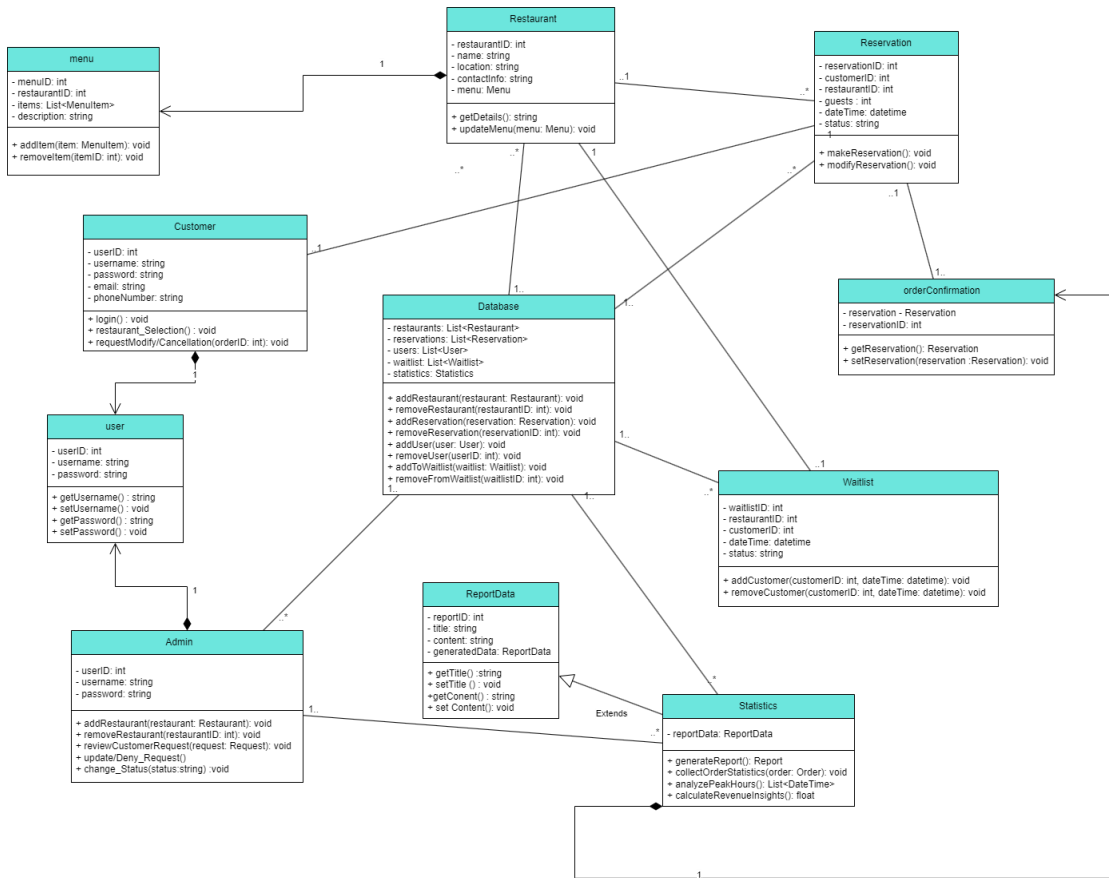Order Management


```
 3    title Order Management
 4    actor Customer
 5    participant UI #62929E
 6    participant Class - Customer
 7    participant Class - Admin
 8    database Database #ff0033
 9
10    Customer ->UI: Request Display Page
11    activate UI
12    UI -->Customer: * Display Page *
13    deactivate UI
14    Customer ->Class - Customer: Login()
15    activate Class - Customer
16    Class - Customer ->Database: User Credentials
17    note over Database #lightyellow: Authentication
      Details
18    Database -->Class - Customer: Show Account Area
19    Class - Customer -->Customer: Returned Answer
20    deactivate Class - Customer
21
22    Customer->Class - Customer:
      RequestFor_Modify/Cancellation()
23    activate Class - Customer
24    Class - Customer ->Class - Admin: Request Package
25    activate Class - Admin
26    Class - Admin -> Database: Check If Correct & Update
27    note over Class - Admin, Class - Customer#lightyellow:
      Reviewing Customer Request
28    Database -->Class - Admin: Return True/False
29    Class - Admin -->Class - Customer:
      Update/Deny_Request()
30    deactivate Class - Admin
31    Class - Customer -->Customer: Returned Answer
32    deactivate Class - Customer
```

Creating an Order:
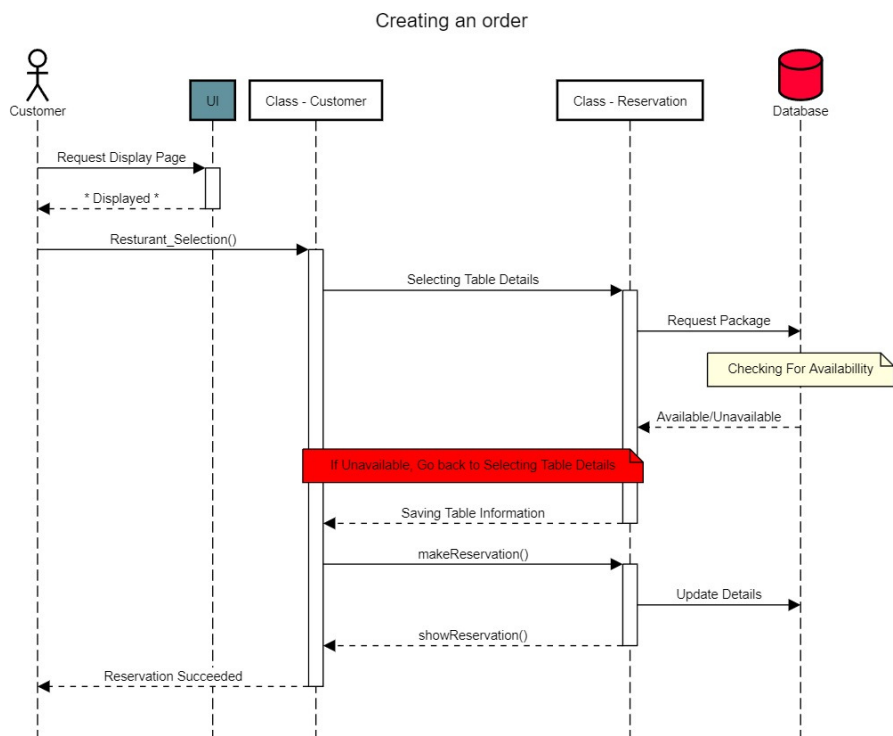
Creating an order

```
1    title Creating an order
2    actor Customer
3
4    participant UI #62929E
5    participant Class - Customer
6    participant Class - Reservation
7    database Database #ff0033
8
9    Customer -> UI: Request Display Page
10   activate UI
11   UI -->Customer: * Displayed *
12   deactivate UI
13
14   Customer ->Class - Customer: Resturant_Selection()
15   activate Class - Customer
16   Class - Customer ->Class - Reservation: Selecting Table
     Details
17   activate Class - Reservation
18   Class - Reservation ->Database: Request Package
19   note over Database#lightyellow: Checking For
     Availabillity
20   Database -->Class - Reservation: Available/Unavailable
21
22   note over Class - Reservation, Class - Customer#red: If
     Unavailable, Go back to Selecting Table Details
23
24   Class - Reservation -->Class - Customer: Saving Table
     Information
25   deactivate Class - Reservation
26
27   Class - Customer ->Class - Reservation:
     makeReservation()
28   activate Class - Reservation
29   Class - Reservation ->Database: Update Details
30   Class - Reservation -->Class - Customer:
     showReservation()
31   deactivate Class - Reservation
32
33   Class - Customer -->Customer: Reservation Succeeded
34   deactivate Class - Customer
```

Creating an Order:

Class Diagram:

MVC Architectural Diagram:

MVC

Model
- Customer
- Reservation
- Admin
- OrderConfirmation
- Restaurant
- User
- Statistics
- Waitlist
- Menu
- Database

Controller
- Model Interaction
- Response Generation
- Manage Reservation
- Request Parsings
- Manage Mobile Device
- Validation
- Error Handling
- Manage DataBase
- Documentation

View
- Login Page
- Dynamic Page
- Home Page
- Display Restaurants
- View Reservation
- View Reservation History