

Project documentation

Software Engineering 2

Cover Sheet

Project Title: Restaurant Reservation system

Project Description:

Reservation system helps customer to reserve table online , customer can view the menu to see what he can order at the restaurant

Admin of the system can add/update/delete another admin

He can add/update/delete meal

He can confirm reservation

Main functions:

- MakeReservation(): The customer can make the reservation and waits the approval from the admin.
- UpdateReservation(): customer can update his reservation data .
- addEvent() : the customer can win in restaurant a special code that customer can with it make a special event like birthday party ,he could enter his code and description of the event with reservation data to reserve the event .
- ViewMenu(): Customer can see the menu of the restaurant .
- ConfirmReservation(): admin can confirm reservation which the customer has made.
- AddMeal(): Admin can add new meal to the menu.
- AddAdmin():Admin can add another admin to the system to control it.

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Requirement	points	
Backend project with RESTful APIs	6	
DB architecture (schema and data)	2	
SOLID principles	3	
Clean Code	2	
UML diagrams	5	
OCL constraints	2	
Total	20	

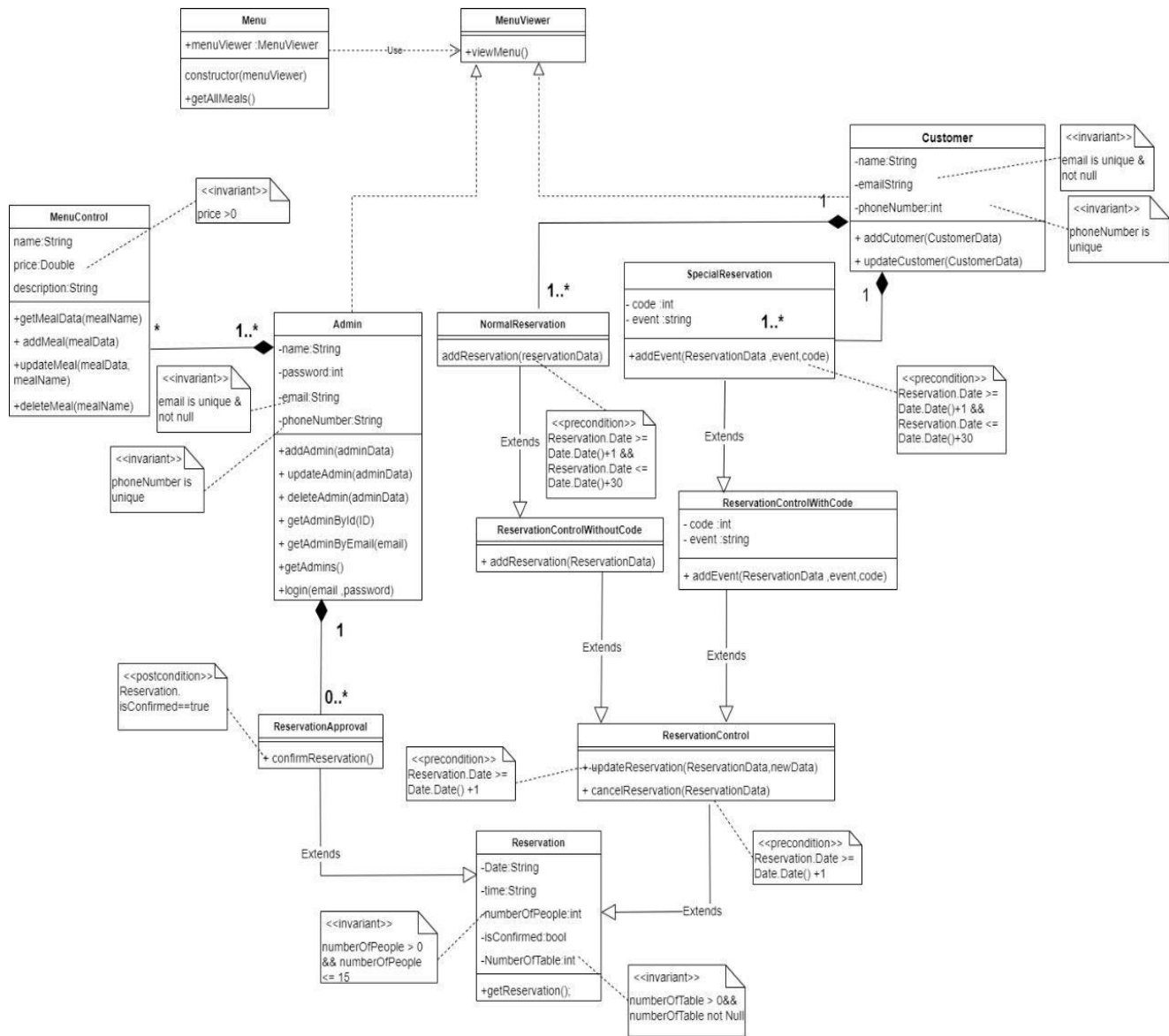
Solid principles :

Principles have been applied in our project:

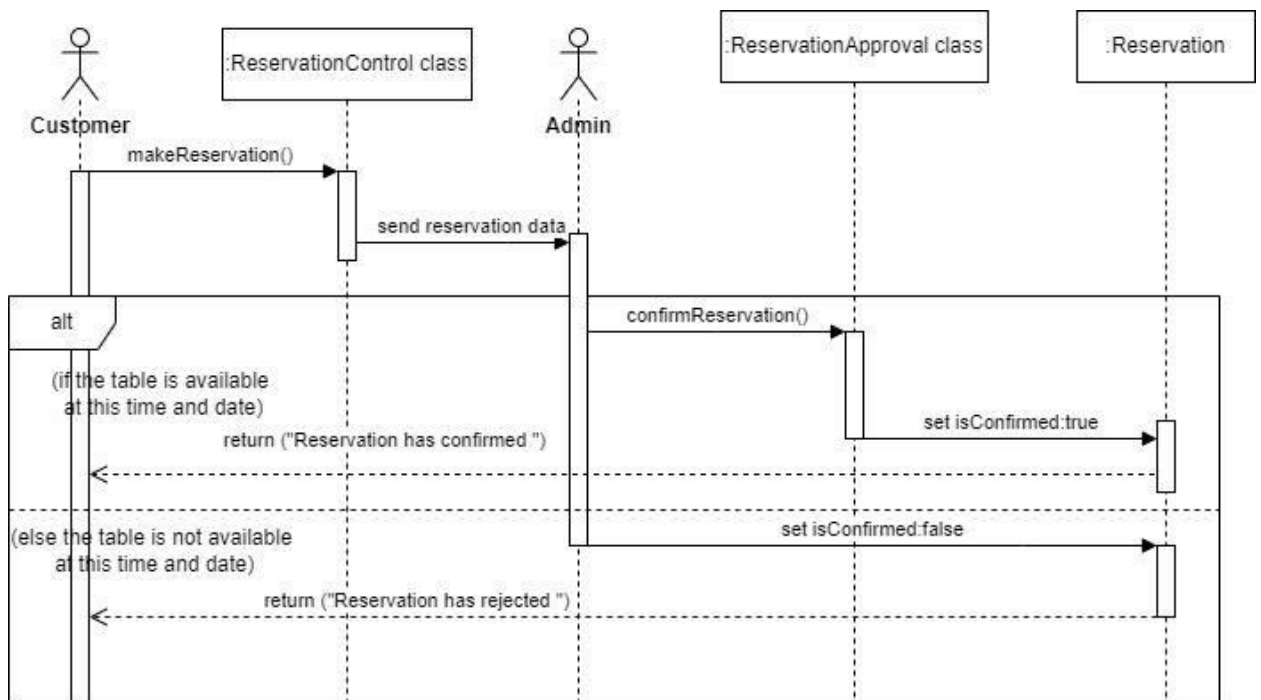
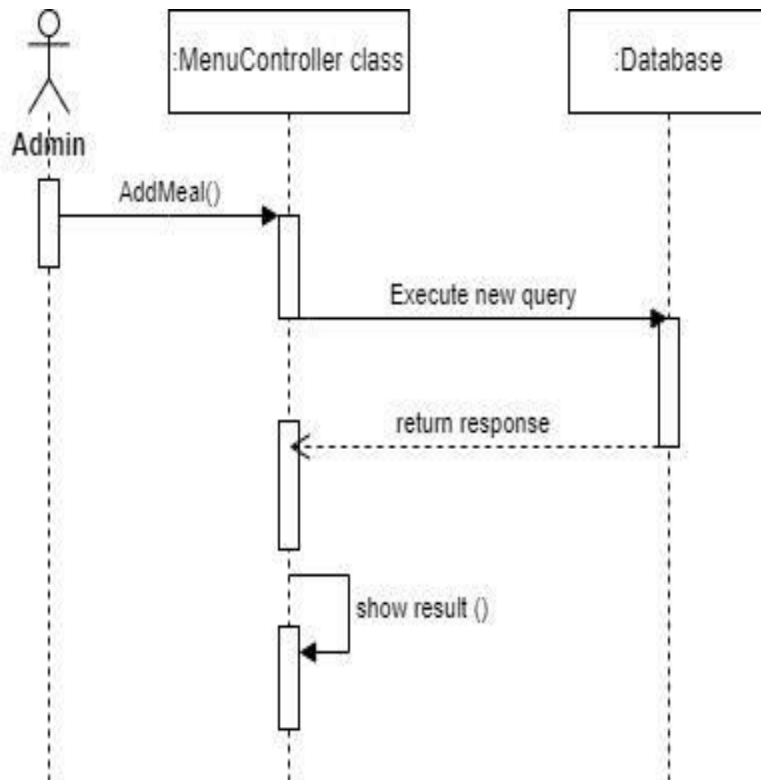
- 1- Single Responsibility Principle
- 2- Open Closed Principle
- 3- Liskov Substitution Principle
- 4- Dependency Inversion Principle

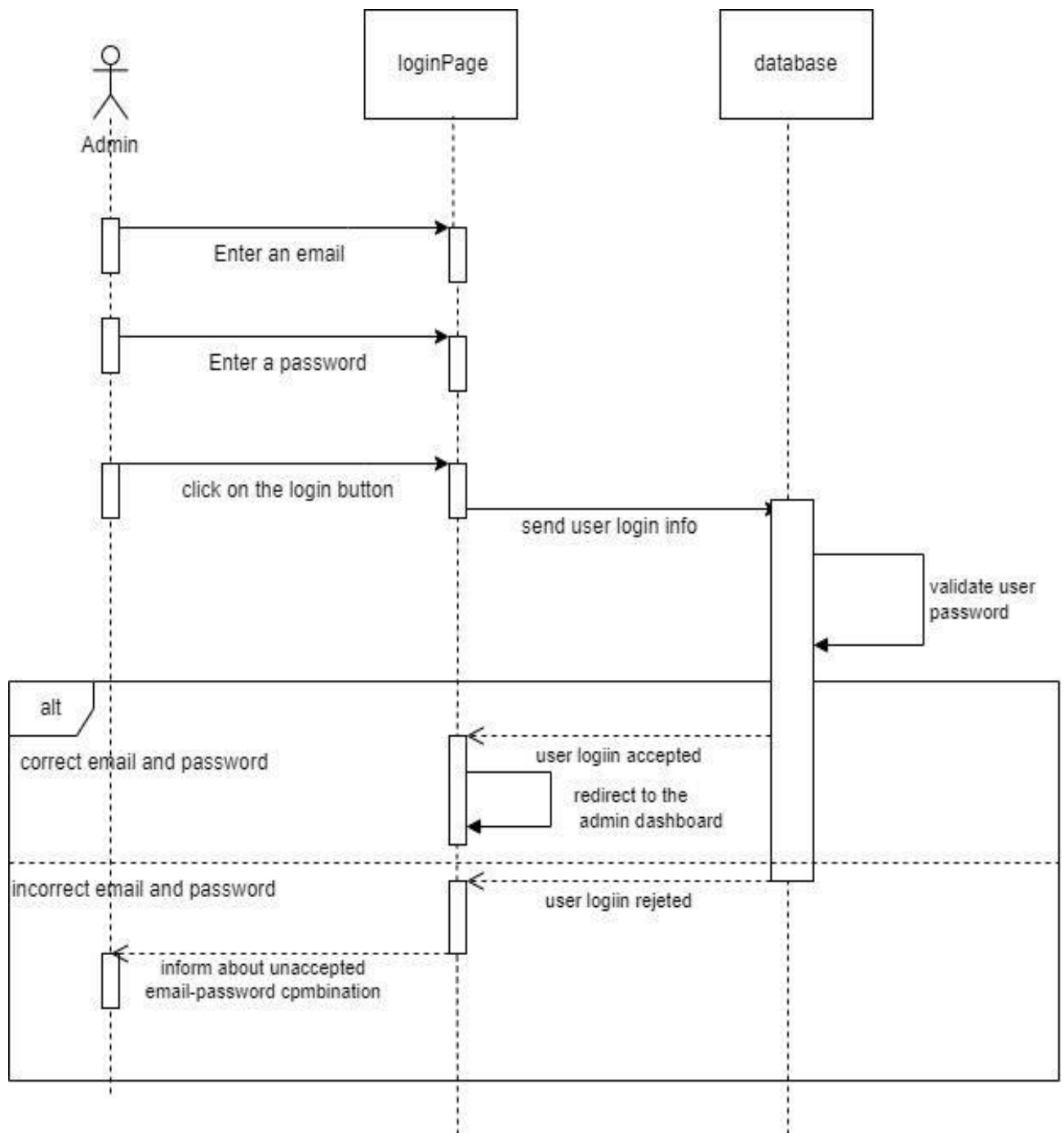
UML Diagrams

1-class diagram:

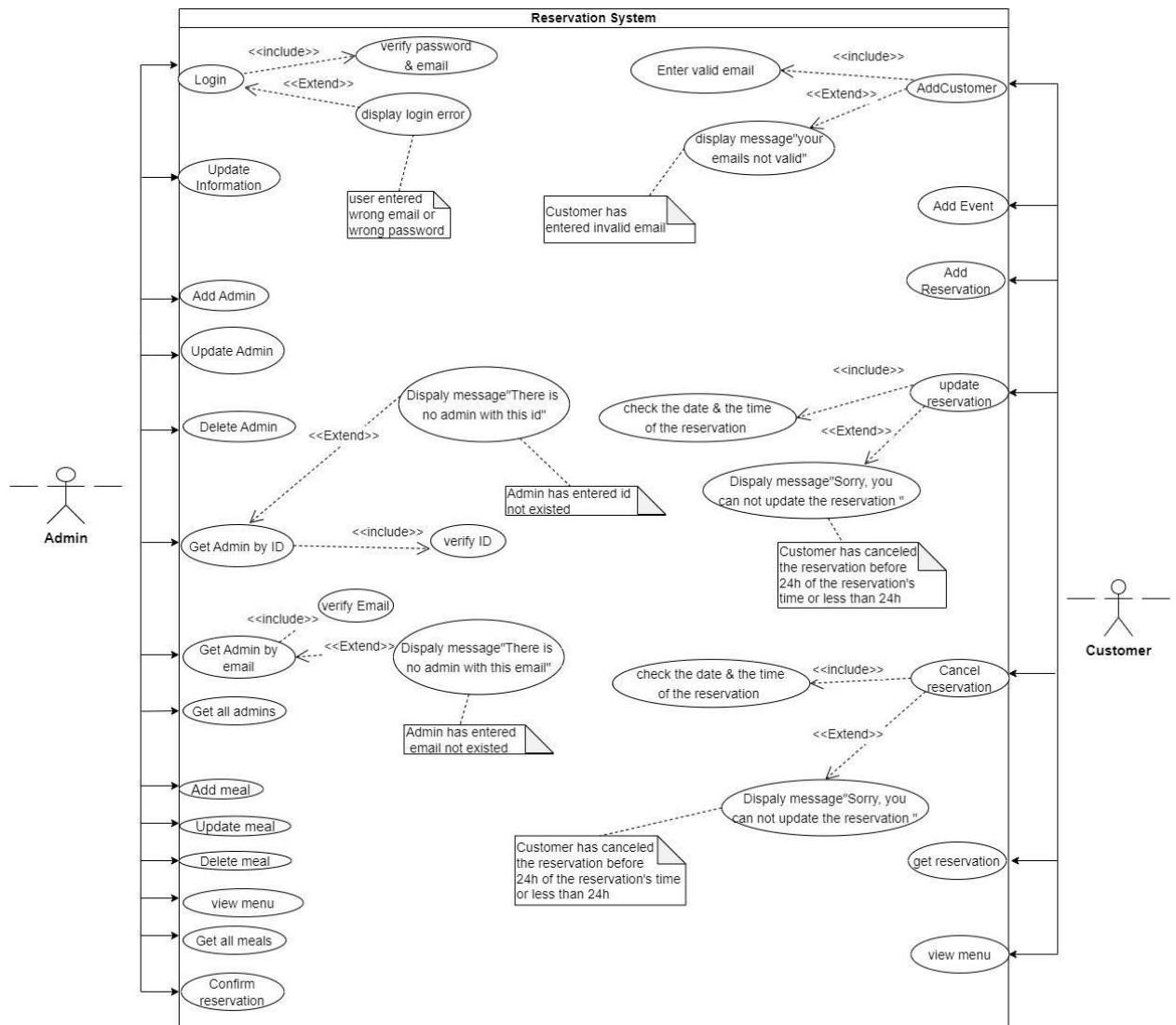


2-sequence diagram:

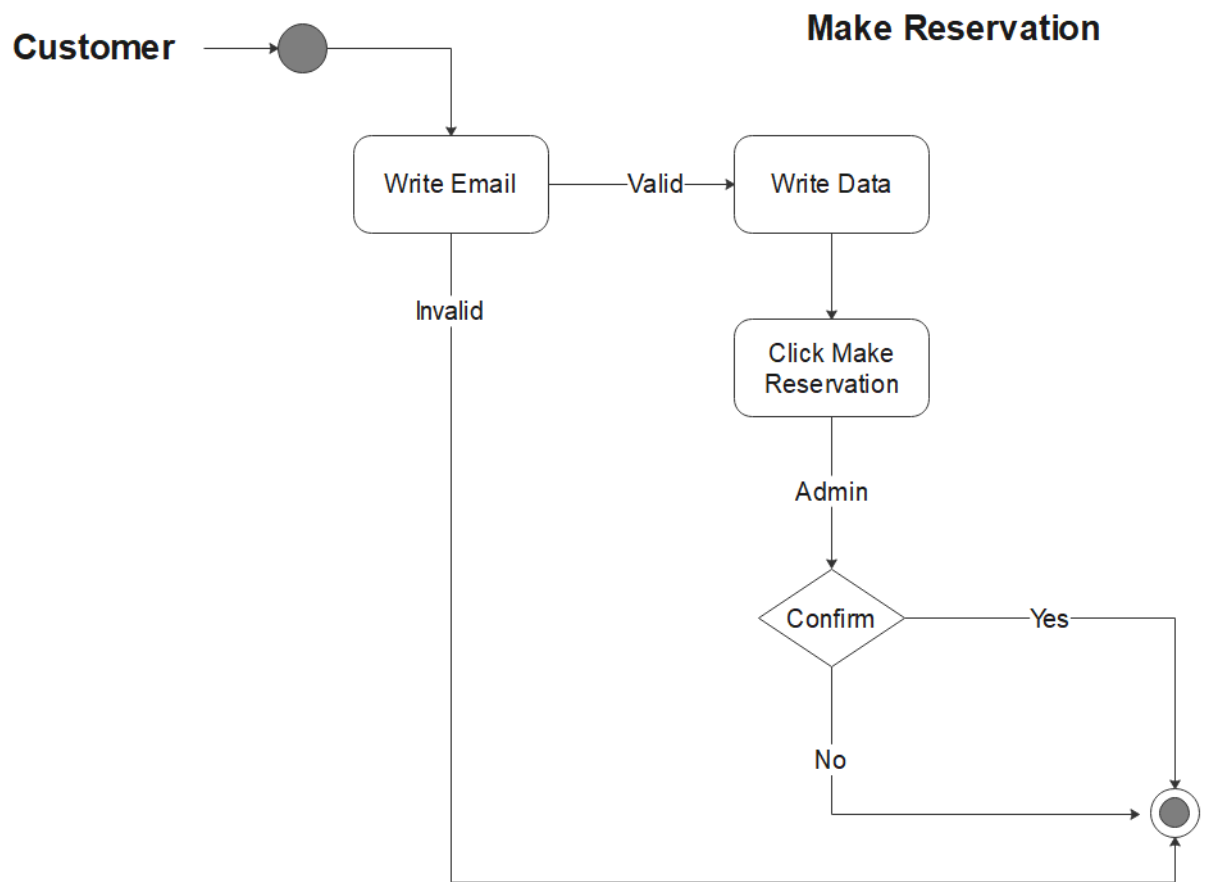


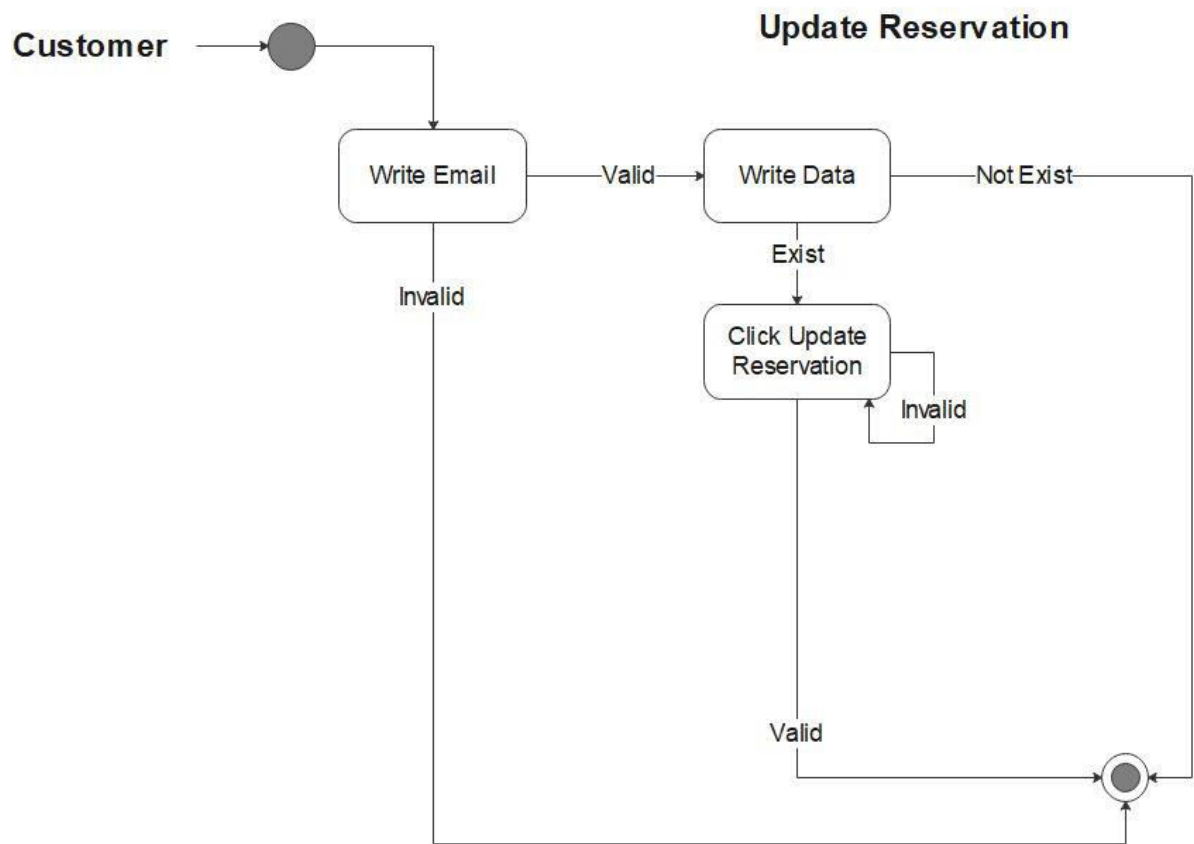


3-useCase diagram:

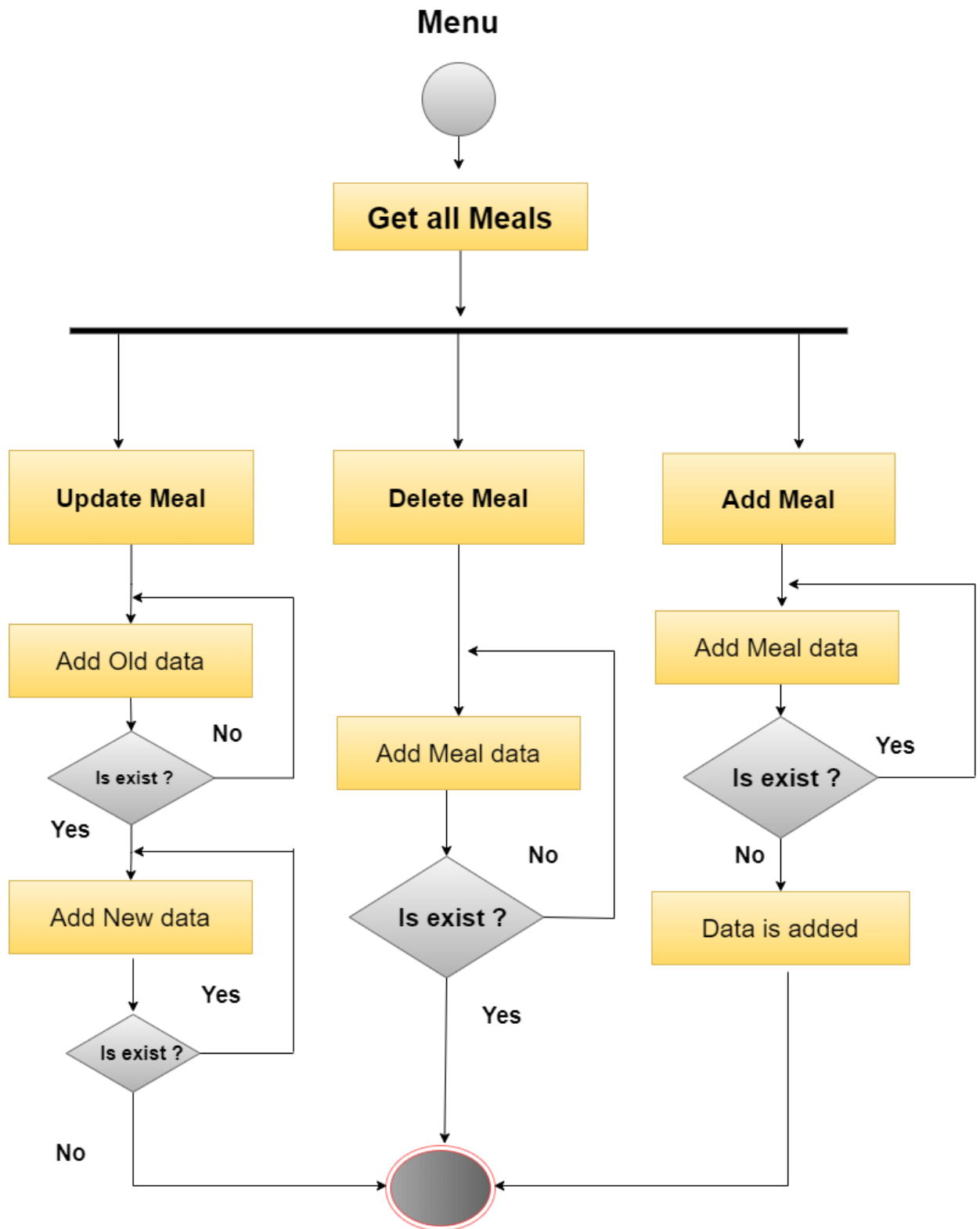


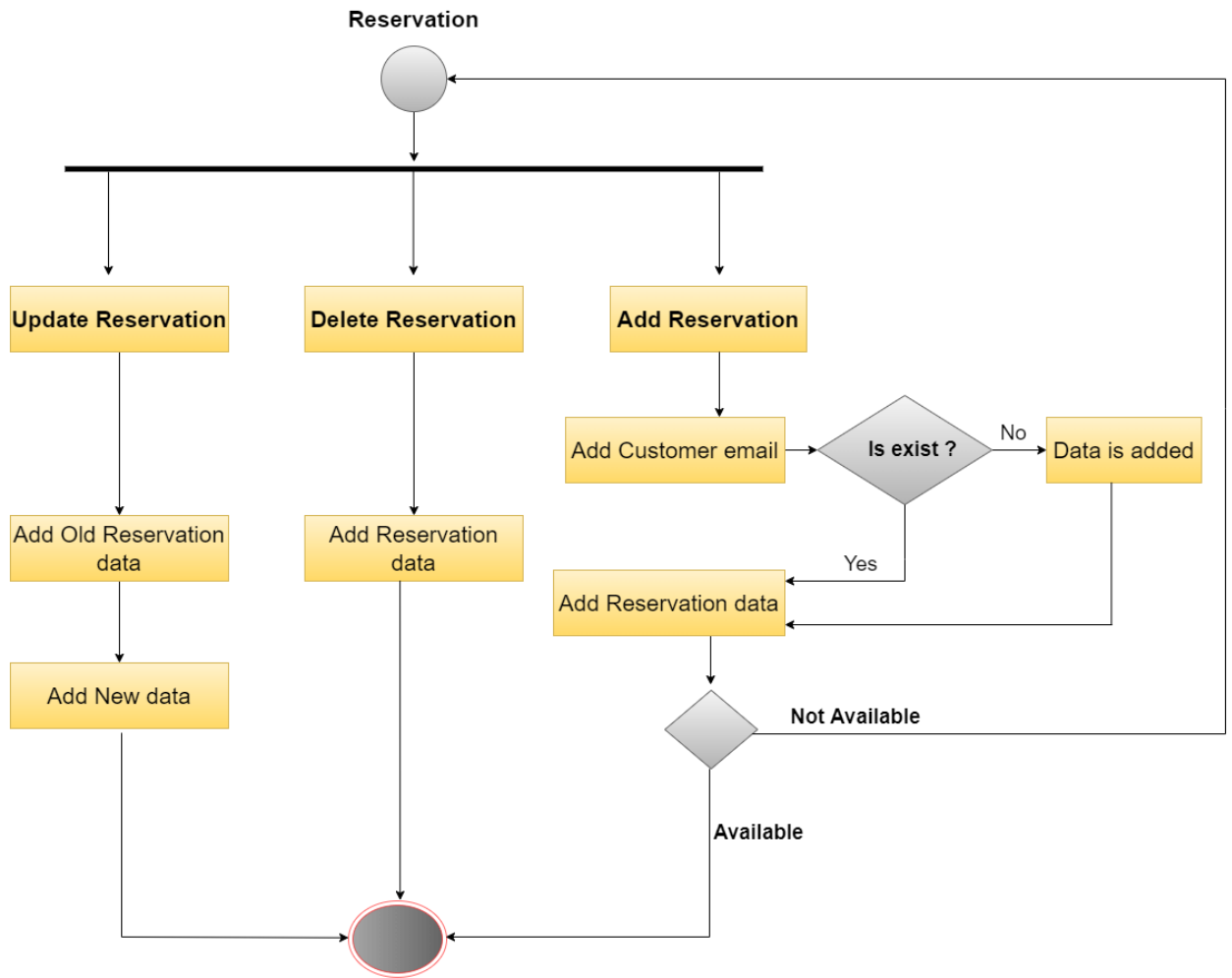
4-state diagram

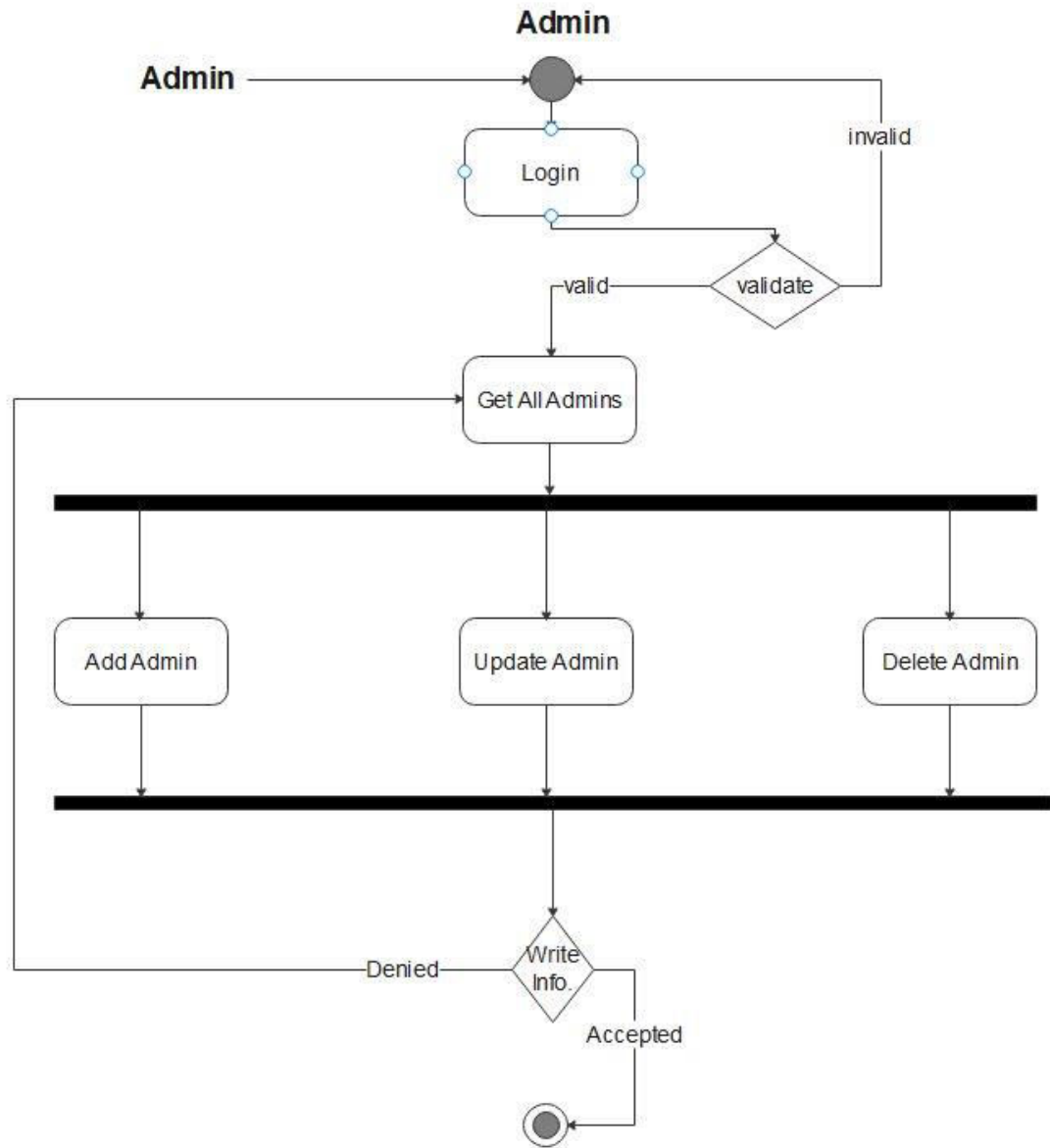




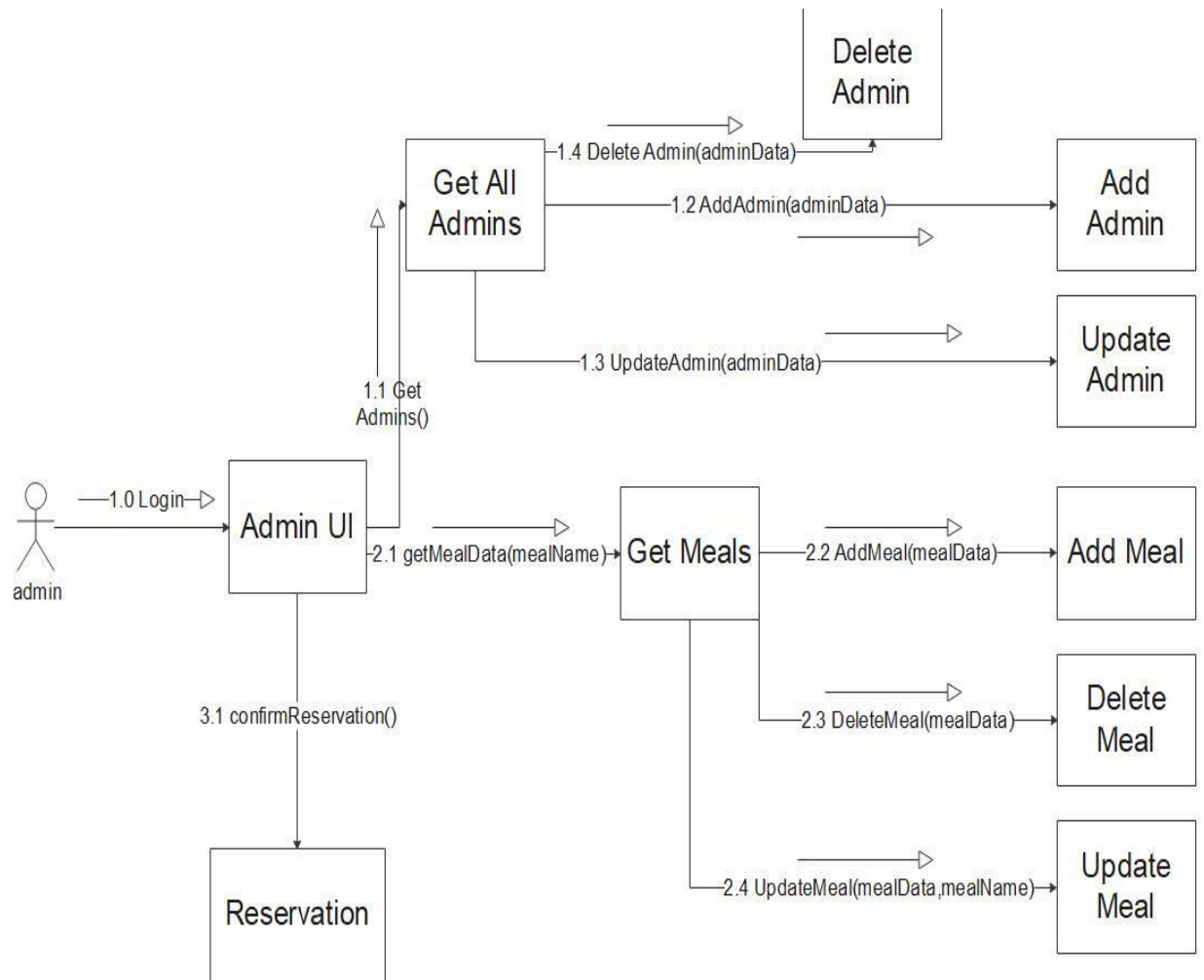
5-Activity Diagram:

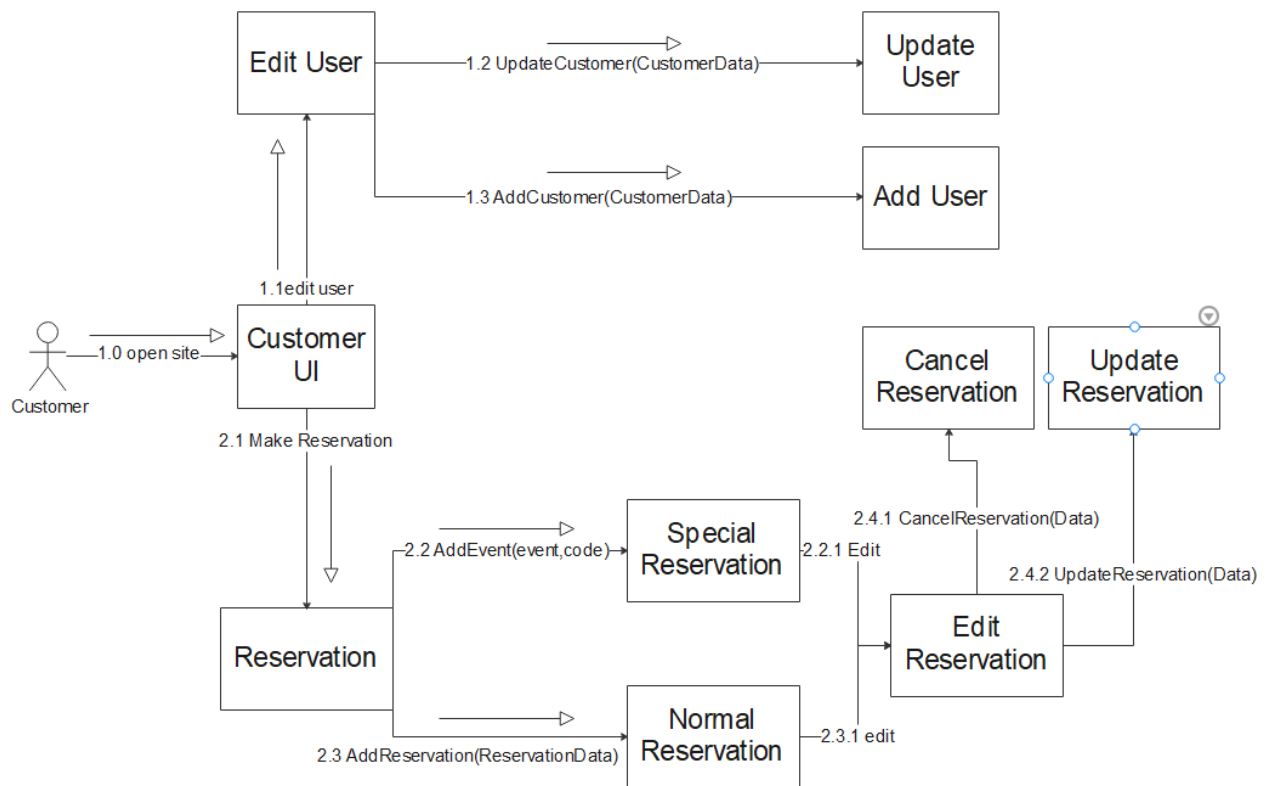






6-communication diagram





7-dataBase schema (diagram)

