

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, ROHTAK

JAVA PROGRAMMING

ASSIGNMENT 4



Submitted by : Anand Kumar

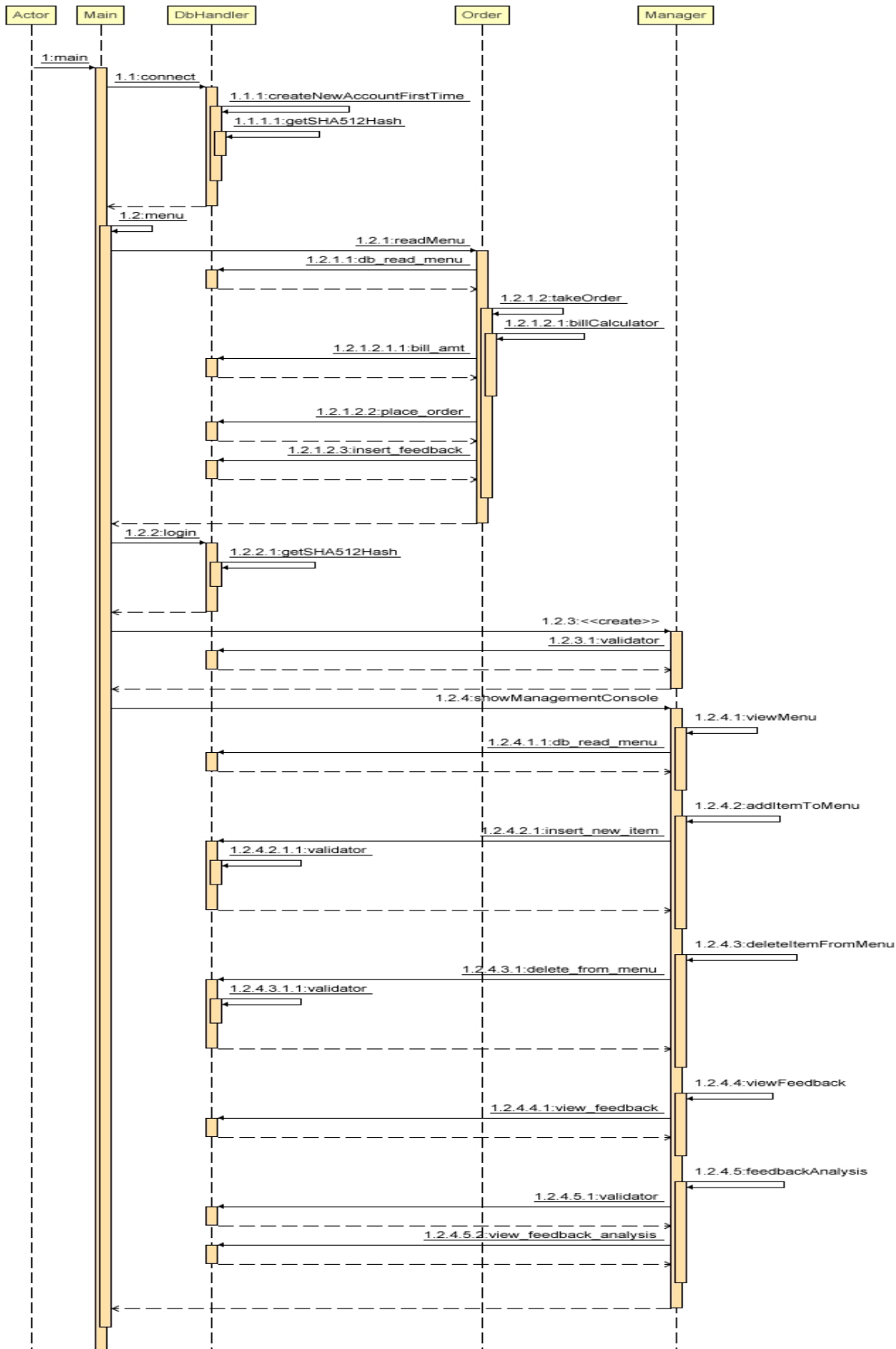
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Branch & Section : CSE(B) , 5th Sem

Hotel Management System – Core Java Project

Project Sequence Diagram – Hotel management System



System Requirements: -

1. Java SE 17
2. 50 MB of free disk space (Excluding additional space for Stanford CoreNLP dependencies).

Salient Features: -

- Three types of users: - Customer, Manager, Chef.
 - **Customer:** Views menu, places order, pays bill, provides feedback on service.
 - **Manager:** Manages the menu, analyzes the customer feedback.
 - **Chef:** Receives the information of the placed orders.
- Customer feedback **sentiment analysis** with Stanford CoreNLP.
- **SHA-512** Encryption to protect the credentials.
- Ease to scale.

Project Modules: -

1. Hotel management system

- Classes:-
 - Main
 - DbHandler
 - Order
 - Manager

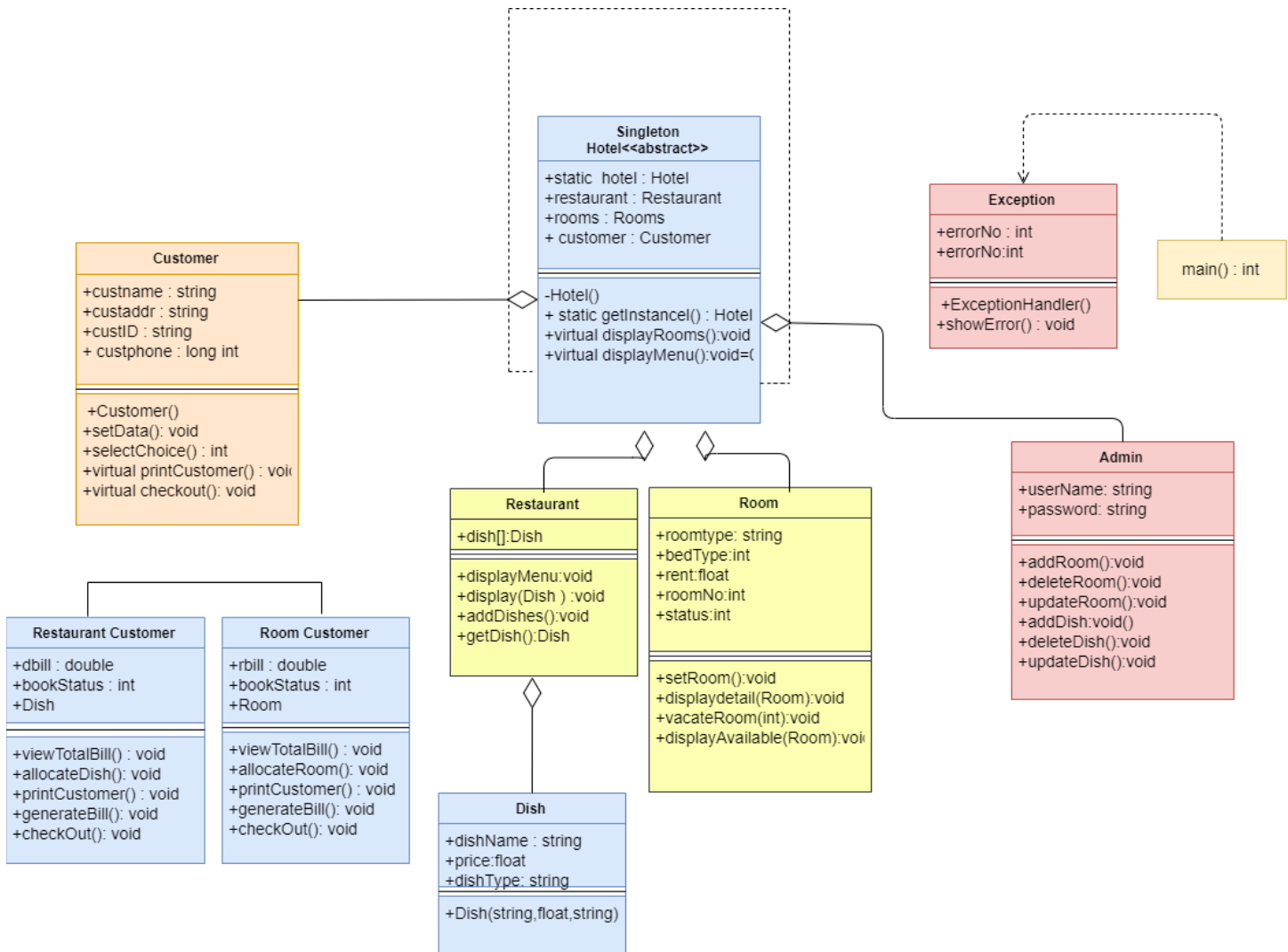
2. Chef

- Classes:-
 - ChefConsole
 - DbHandler

3. SentimentAnalyzer

- SentimentAnalyzer

GUI Version



The project is implemented using Swing GUI widget toolkit and MYSQL database. There are totally 9 classes. The root class i.e. Hotel exhibits singleton design pattern whereas RoomCustomer and RestuarantCustomer incorporate the properties of factory design pattern.

A customer can select either of the services provided by the hotel i.e., Accommodation or Food. Based on the customer's choice he/she will be redirected to the next page where he/she can select desired food items or book rooms.

Admin can add/delete dishes or rooms to the database.