Tabkha Documentation

Documentation Index

Team Members 2

Project Overview 3

Functional & Non-Functional Requirement 4

System Requirements 5

Context Diagram 9

Activity Diagram 10

Class Diagram 13

Use Case Diagrams 14

Sequence Diagram 15

component Diagram 20

Conclusion 21

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Overview

Project Name	Tabkha
Project Dates	Start Date: Nov 5, 2024 End Date: Dec 16, 2024
Background	A desktop application that connect homemade food Businesses with students and workers who need to order homemade food. The application provide variety of homemade food menus.
Objectives	• serve those who can not or do not have time to cook • Help small business owners to reach the most number of people and upgrade their businesses • All homemade food businesses in one place
Target Audience	Students and Workers

Functional & Non-Functional Requirements

	Functional Requirements	*Non-functional Requirements*
Objective	Describe what the product does. The app connects home-cooking women with students and working women who need homemade meals. Customers can browse, order, and review dishes, while cooks can manage menus and orders. Delivery personnel can update delivery statuses, and admins can monitor the system.	Describe how the product works, including performance, usability, reliability, and security standards that ensure a smooth, secure experience for all users
End Result	Define product features: user accounts, browsing menus, placing orders, tracking deliveries, providing ratings, and managing roles for cooks, delivery, and admin	Define product properties: responsive design, quick loading, high availability, data security, scalability, and user-friendly interface.
Focus	Focus on user requirements, ensuring that each user type (customer, cook, delivery, admin) has specific functionalities tailored to their needs	Focus on user expectations, including smooth performance, quick response times, reliable access, and secure data handling
Essentiality	They are mandatory as they define core app functionalities required for a working system.	They are desirable to enhance user experience, security, and reliability but not strictly necessary for basic functionality.
Origin Type	Usually defined by the user needs and the app's purpose to connect customers, cooks, and delivery	Defined by developers and tech experts to ensure app quality, stability, and efficiency.
Testing	Functional testing, such as Component, API, and UI testing, to ensure correct functionality for all user actions like login, ordering, and delivery tracking.	Nonfunctional testing, including performance, usability, and security testing, is done after functional testing to verify speed, reliability, and safety of the system
Types	Includes authentication, authorization levels, order management, menu browsing, profile management, delivery tracking, rating/review system, and admin controls.	Includes usability, reliability, scalability, performance, and security. Key elements include responsive design, high availability, encryption, and modularity for future growth.

System Requirements

1. Backend System Requirements(using c# .net framework)

User Management:

-Allow users to register, login, and manage their profiles.-Enable password reset functionality and ensure secure authentication methods.-Allow customers to browse menus, place orders, and track order status.

- Enable customers to search and filter menus

- Provide cooks with order details, including special instructions and delivery information.

-Allow cooks to create, update, and manage menus with items, prices, and descriptions.

- Enable delivery persons to view assigned orders and update delivery status

Payment Processing:

-Integrate payment gateways such as Stripe for secure online payments.

Communication and Notifications:

- Send email or SMS notifications for important updates and promotions, in case forget passwords , and first time you register to our system

Rating and Feedback System:

- Allow customers to rate dishes and provide feedback on their orders.

- Enable cooks to receive feedback on their dishes and overall service

Data Access:

-Use entity Framework for interacting with the database

2.Database(SQL Server)

-Design tables for User Profiles, Orders, Menu Items, and Delivery Details.

-Relationships to support complex queries for fetching relevant data

3.Frontend (User Interface)

-Language: C# (Windows Forms)

-Framework: .NET Framework.

-UI Features:

-Implement a responsive design to adapt to various screen resolutions.

-Use Visual Studio's designer tools to ensure a seamless user experience.

1. Login and Registration Pages

Login Page:

Fields:

Username/Email

Password

Login: Authenticates the user and redirects based on role (Customer, Cook, or Delivery).

Forgot Password: Opens a password reset workflow.

Validation: Ensure required fields are filled; show error message for incorrect login details.

Registration Page:

Fields:

Username/Email

Password

Confirm Password

Role Selection (Customer, Cook, Delivery)

Contact Information (Phone number, Address if applicable)

Password Reset Page:

Fields:

Username/Email

Reset Code

New Password

Confirm New Password

2. Customer Page

Home/Dashboard Page:

Menu Navigation: Links to view menu, order history, profile, and feedback.

Menu Browsing Page

Order Checkout Page:

Order Summary: Lists items in the cart with quantities and total cost.

Payment Option Selection: Select payment method, including online payment

3. Cook Pages

Cook Dashboard Page:

Summary of pending orders, active items on the menu, and recent feedback.

Order Management Page:

Display incoming orders with details (items, quantities, special instructions, customer contact if needed).

Options to mark orders as "Preparing", "Ready for Delivery", or other statuses.

Menu Management Page:

List of all menu items with options to edit or delete

4.Delivery Person Pages

Delivery Dashboard Page:

List of all assigned orders with details (customer address, order items, contact info).

Options to mark order as "Picked Up", "Out for Delivery", or "Delivered".

5. Admin Page

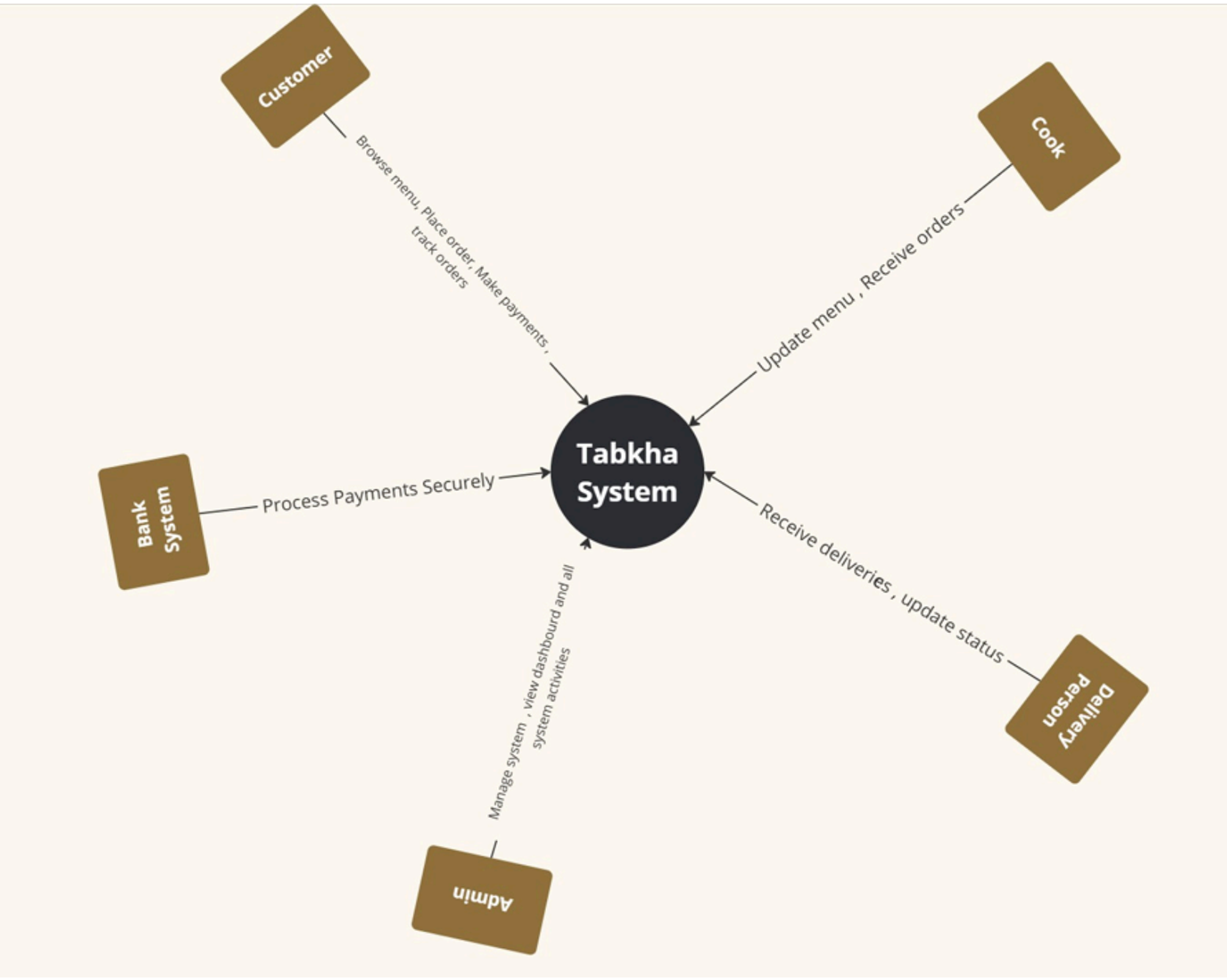
User Management: Overview of all users, with options to view and manage user accounts.

Order Management: View all orders, including status and feedback.

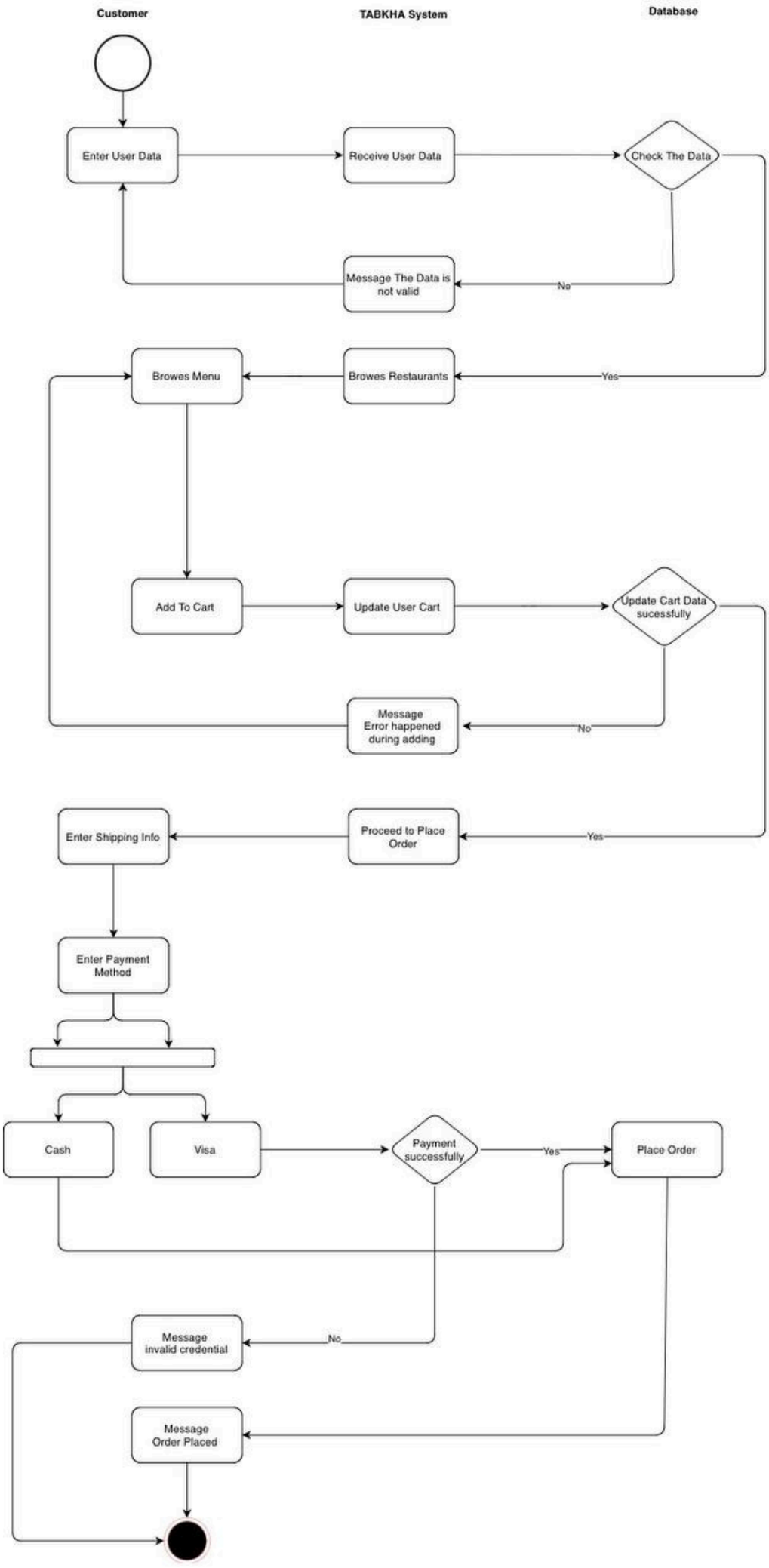
Menu Management: Oversee all menu items.

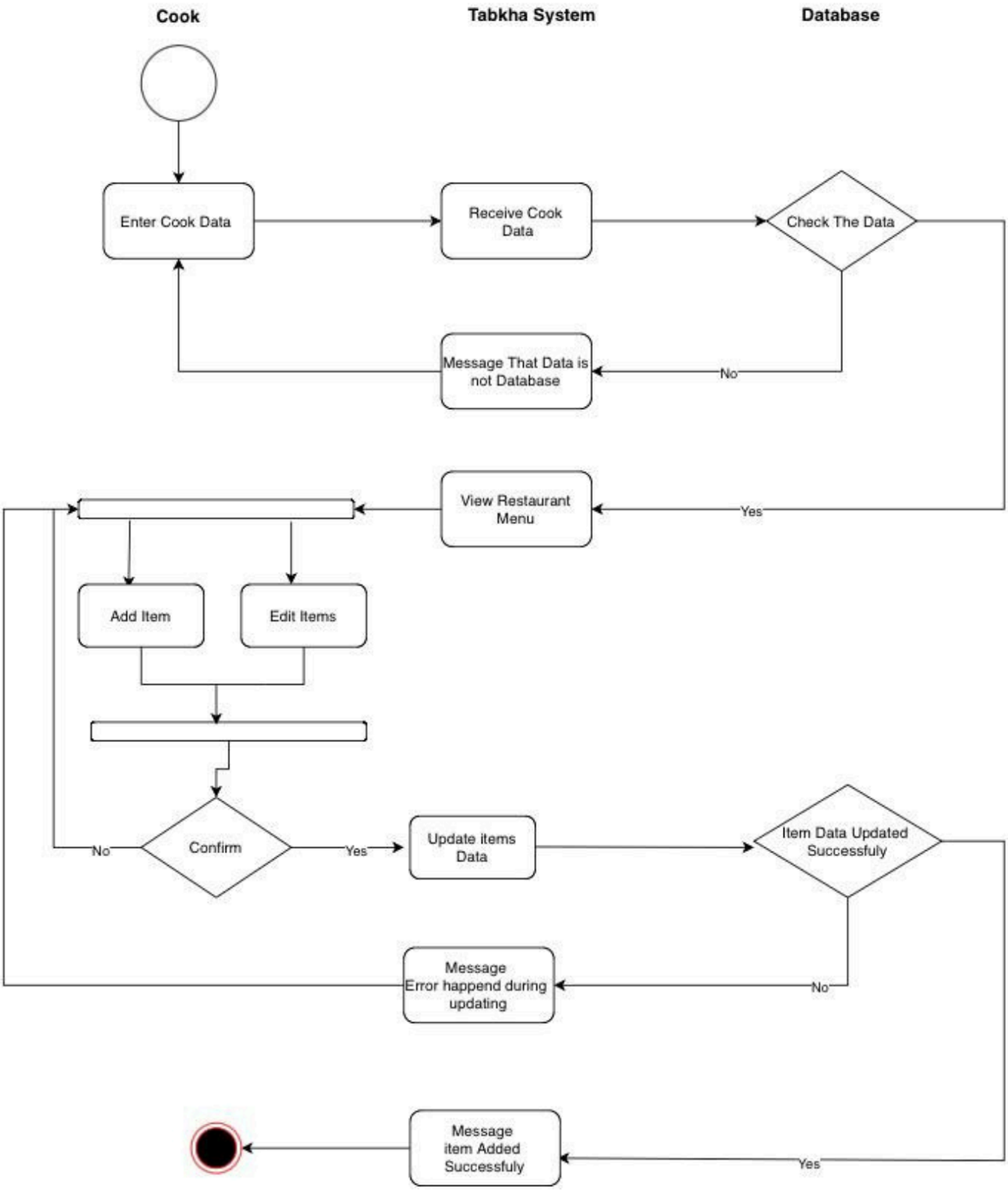
Feedback Moderation: View and manage customer feedback to address concerns or remove inappropriate comments

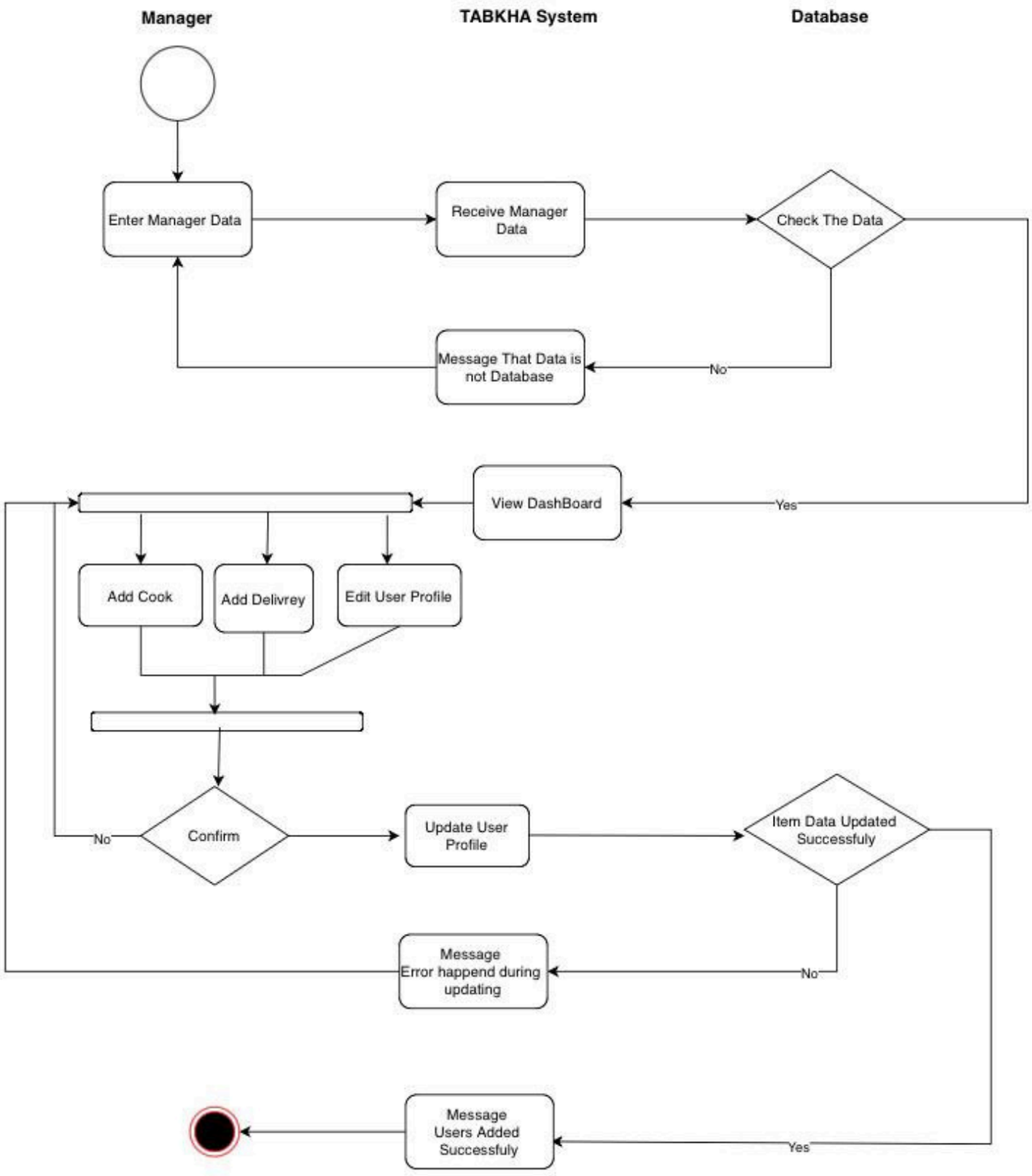
Context Diagram



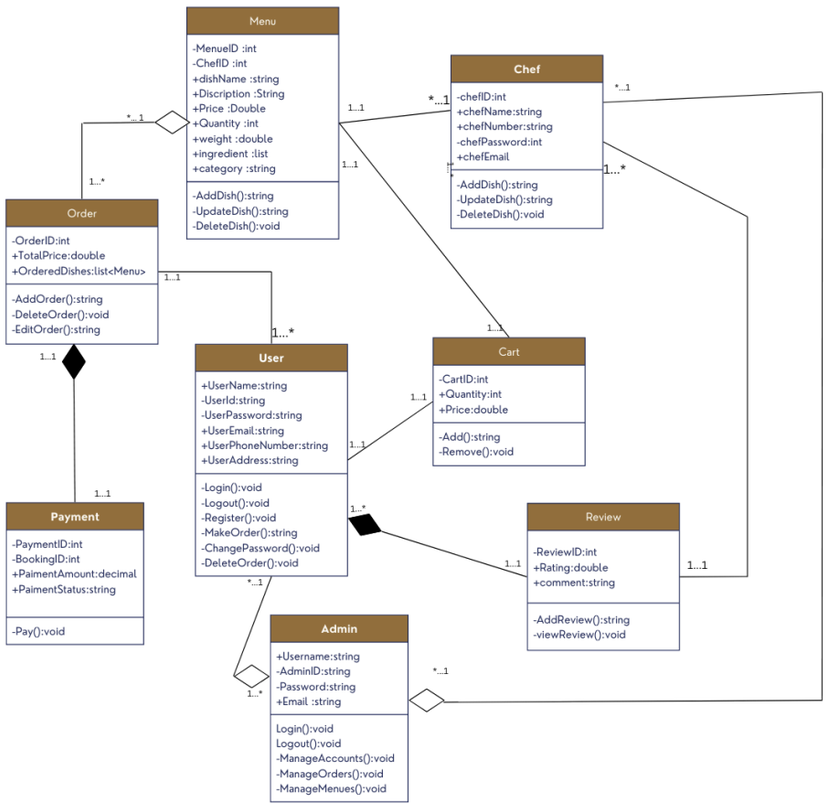
Activity Diagram



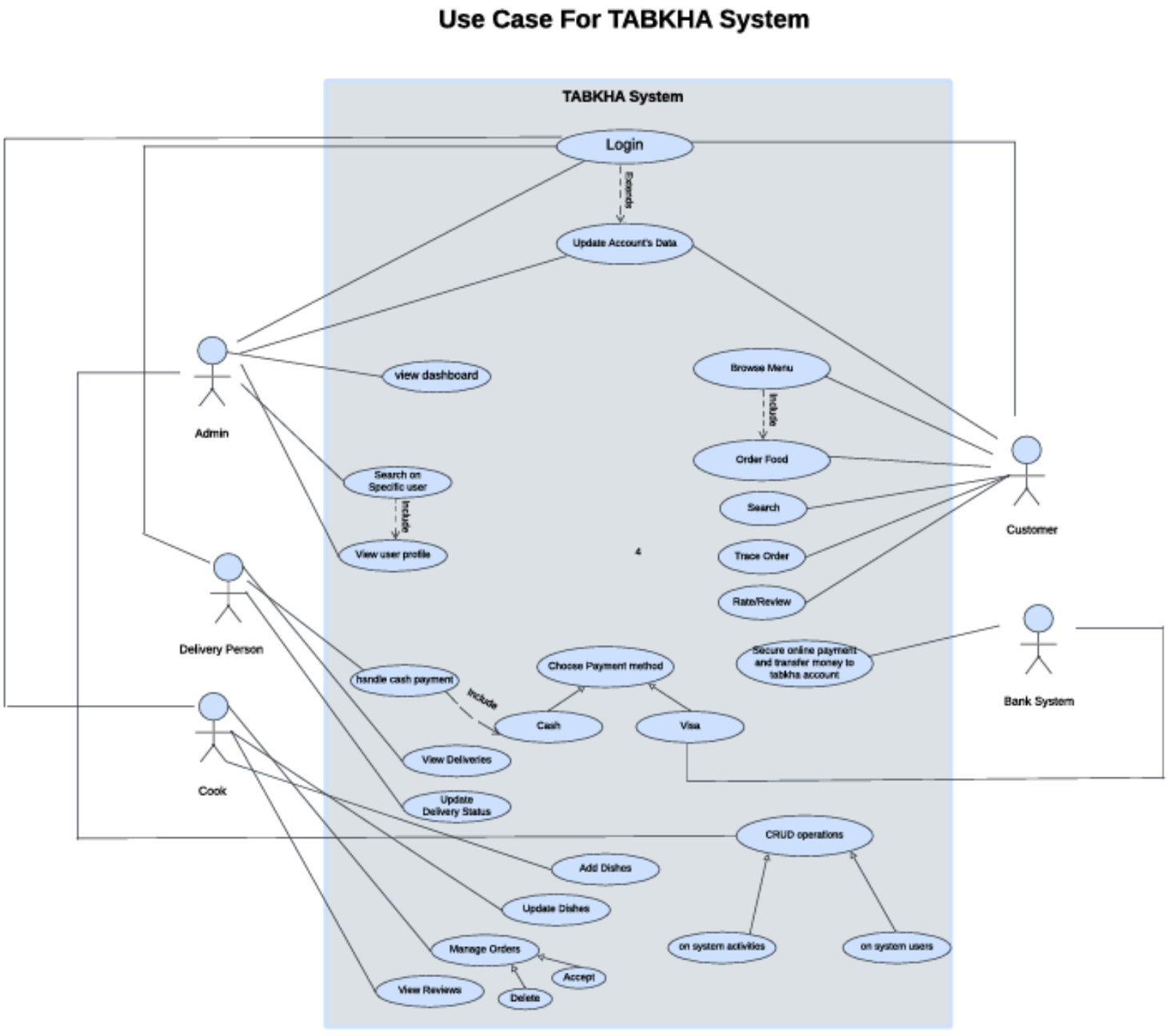

Cook
Tabkha System
Database
Enter Cook Data
Receive Cook Data
Check The Data
Message That Data is not Database
No
View Restaurant Menu
Yes
Add Item
Edit Items
Confirm
No
Yes
Update items Data
Item Data Updated Successfuly
Message Error happend during updating
No
Message item Added Successfuly
Yes


Manager
TABKHA System
Database
Enter Manager Data
Receive Manager Data
Check The Data
Message That Data is not Database
No
View DashBoard
Yes
Add Cook
Add Delivrey
Edit User Profile
Confirm
No
Update User Profile
Item Data Updated Successfuly
Message Error happend during updating
No
Message Users Added Successfuly
Yes

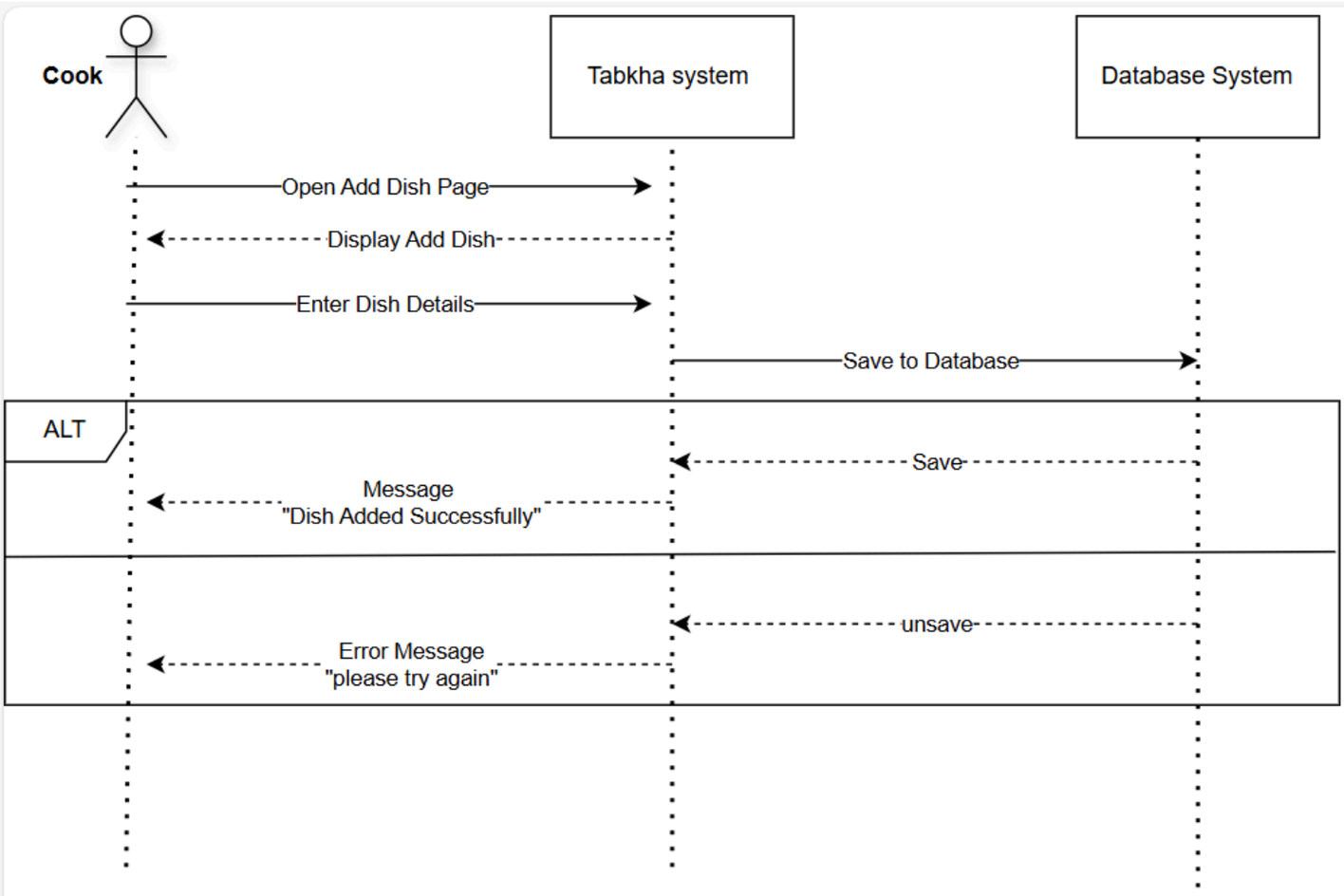
Class Diagram

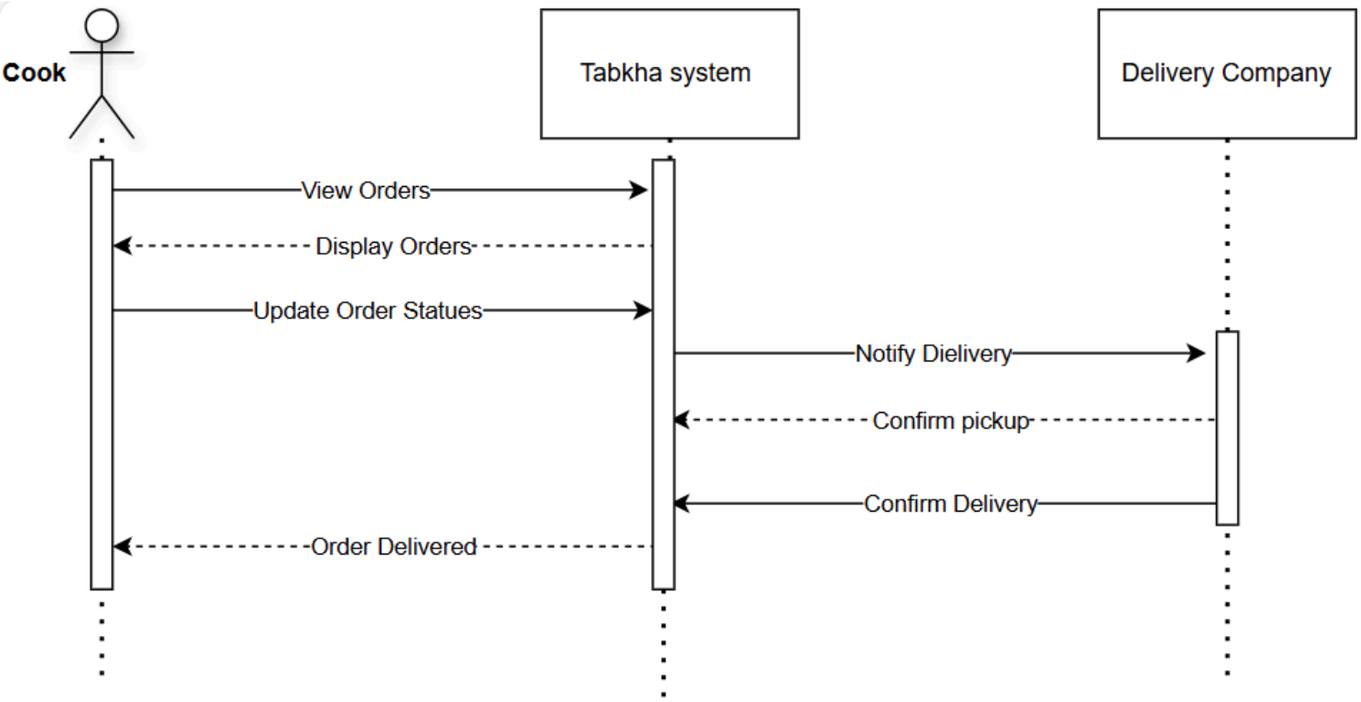


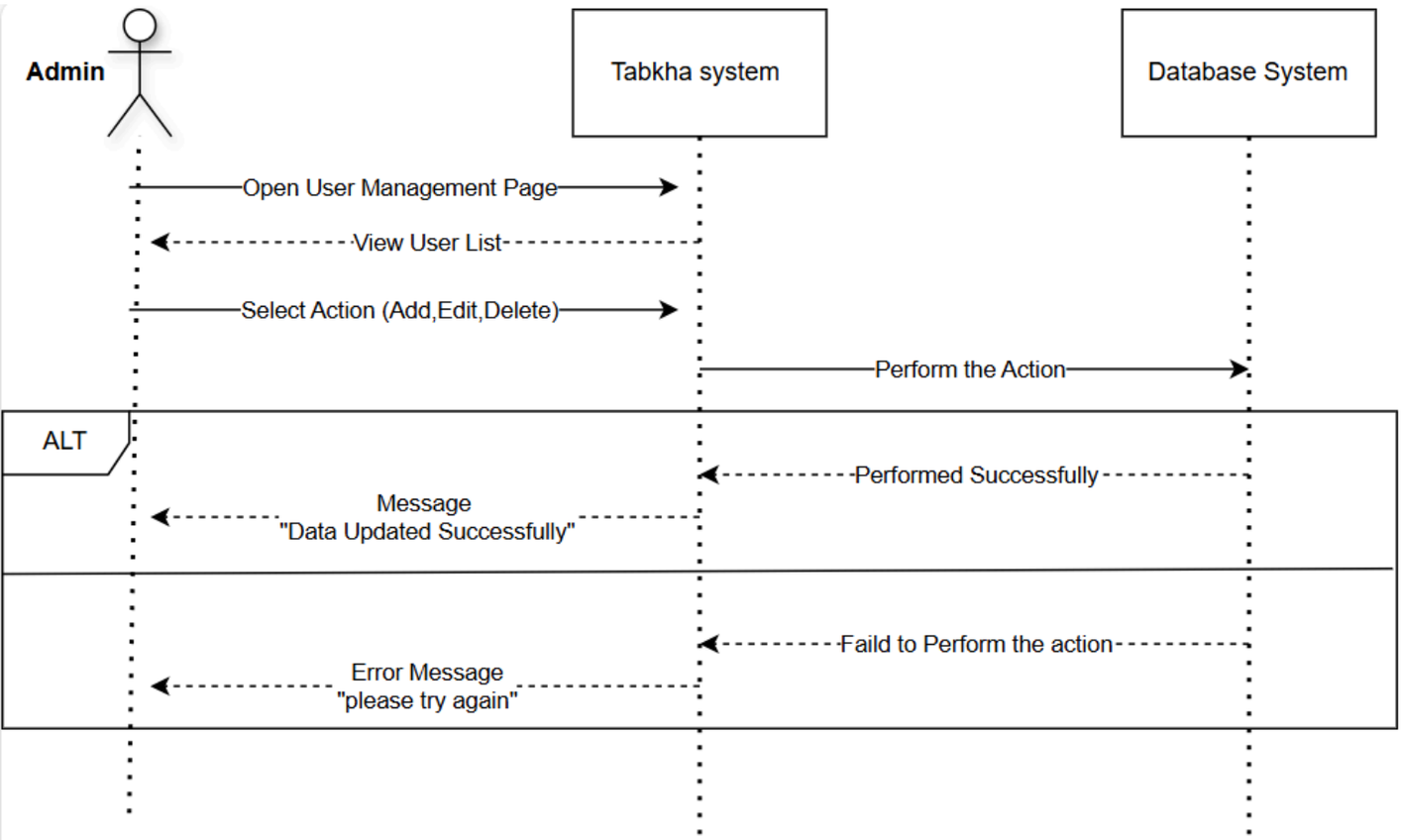
Use Case Diagram

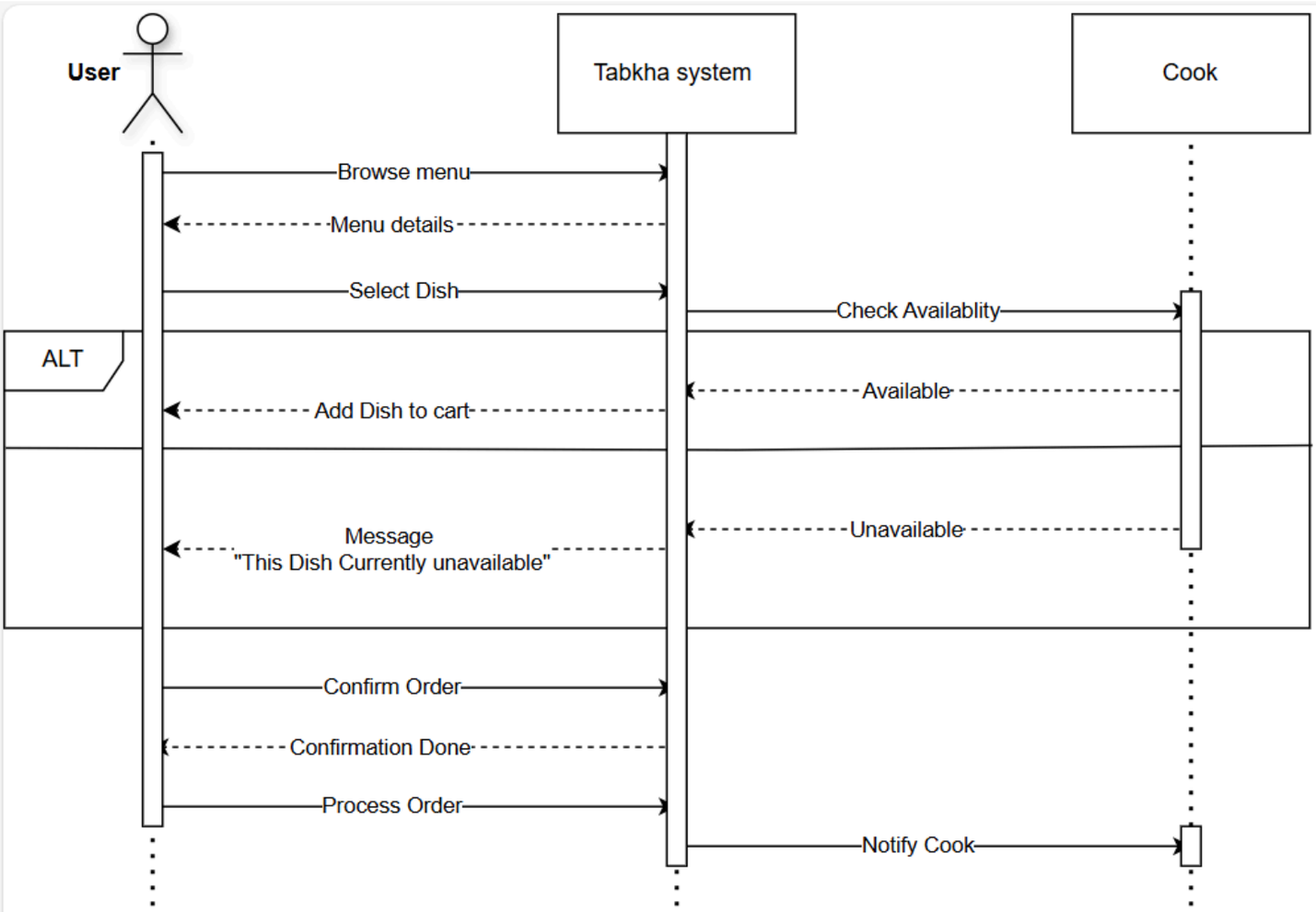


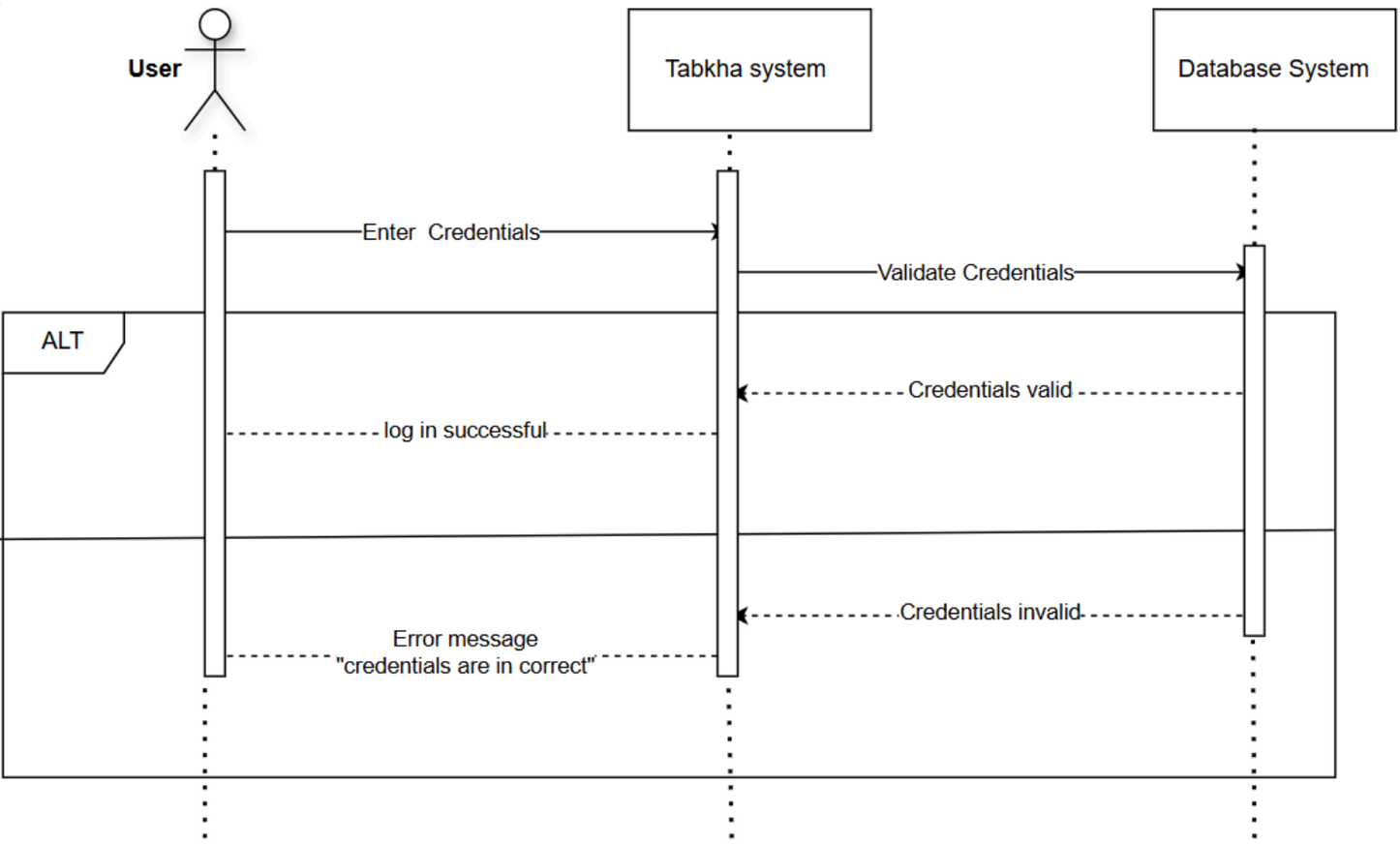
Sequence Diagram



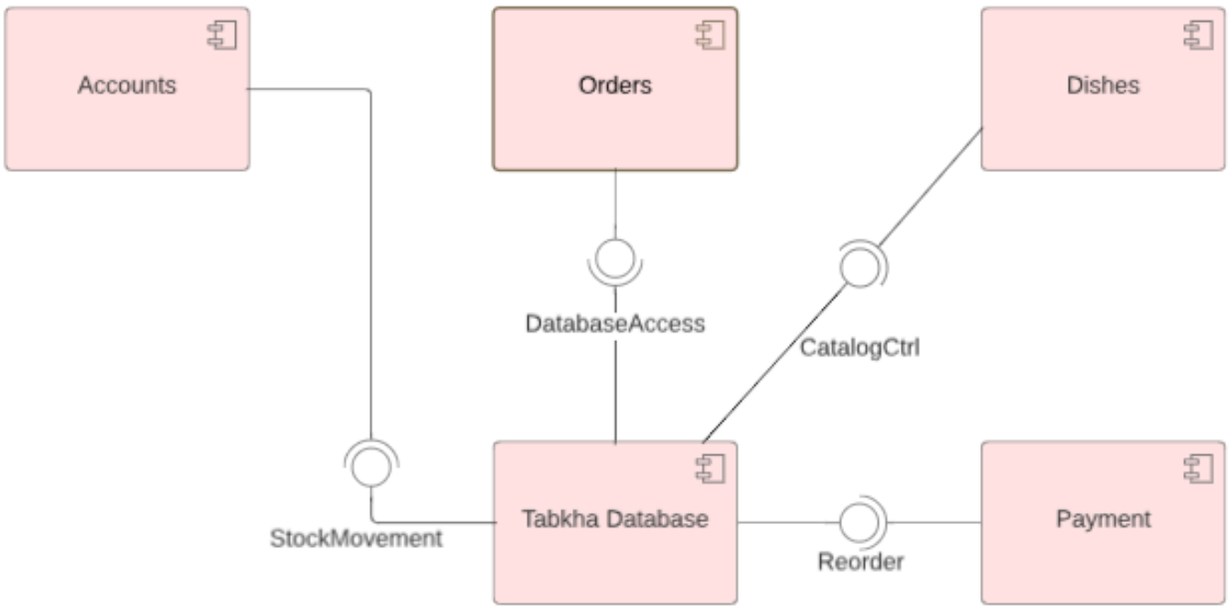

Cook
Tabkha system
Delivery Company
View Orders
Display Orders
Update Order Statues
Notify Dielivery
Confirm pickup
Confirm Delivery
Order Delivered


Admin
Tabkha system
Database System
Open User Management Page
View User List
Select Action (Add,Edit,Delete)
Perform the Action
ALT
Performed Successfully
Message
"Data Updated Successfully"
Faild to Perform the action
Error Message
"please try again"


User
Tabkha system
Cook
Browse menu
Menu details
Select Dish
Check Availablity
ALT
Available
Add Dish to cart
Message
"This Dish Currently unavailable"
Unavailable
Confirm Order
Confirmation Done
Process Order
Notify Cook


User
Tabkha system
Database System
Enter Credentials
Validate Credentials
ALT
Credentials valid
log in successful
Credentials invalid
Error message
"credentials are in correct"

Component Diagram



Conclusion

Project Outcomes	Now after our project is done student , worker and all those who don’t have time to cook their own traditional and untraditional food. can download our application and order their dishes.