Bangabandhu Sheikh Mujibur Rahman Digital University, Bangladesh

Faculty of Cyber Physical Systems

Department of Internet of Things and Robotics Engineering

Lab Report Information:

Course Title: Software Engineering Lab

Course Code: ICT 4354

Submitted To:

Shifat Ara Rafiq

Lecturer,

Department of SE, BDU

Submitted By:

1. Avik Halder (2001009)
2. Akibul Hasan Anik (2001010)
3. Hrithik Das (2001016)

Date of Submission: 24-09-2024

Project Title: Khida Lagse(Restaurant Management System)

Functional Requirement:

1. User will be able to register and login with OTP verification.
2. User will be able to browse the food menu.
3. User will be able to make orders of multiple food items.
4. User will be able to track the status (Preparing, On the way, Delivered) of orders from the restaurant.
5. User will be able to accept the food orders from the delivery man by using the OTP verification.
6. User will be able to cancel the food orders within the defined time after placing order.
7. Admin will be able to manage user's orders (View, Update, Delete).
8. Admin will be able to add, edit or remove items from the food menu.
9. Admin will be able to update the order status in real time.
10. The system will have a secure online payment system.

Non Functional Requirement:

1. Authentication (JWT)
    - System will serve the actual owner of the account.
2. Scalability
    - System will be able to support adding more feature, more restaurants and users as the business grows.
3. Security
    - User's sensitive data must be encrypted using hashing.
    - Role Based Access Control will be implemented to restrict actions based on user type (admin, user, delivery man)
4. Performance
    - System will be able to support real-time updates for order statuses and inventory management.
5. Reliability
    - System will be ease to use.
6. Efficiency

- System will be able to perform in real time with ensuring continuous availability.

7. Usability
    - System will have a user-friendly simple UI and also it will be responsive.
8. Maintainability
    - The codebase will be modular and well-documented to facilitate future updates and debugging.