

**Bus Ticket Reservation System**

# “ GO

MOVE LEAVE HOME

# SAFE SAFE SAFE SAFE ”

Submitted ToLameya Islam Lecturer, Department of CSE,

Daffodil International University

Submitted By

Name : Avisheikh Kundu ID: 221-15-5009

Section: 61\_O Department of CSE,

Daffodil International University

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## Introduction

### Background

The online food delivery market is rapidly growing due to increased internet penetration and changing consumer preferences. This project aims to develop a web application that simplifies food ordering and delivery processes.

### Objective

* + - Develop a user-friendly platform for customers to order food online.
    - Ensure secure payment transactions.
    - Enable real-time tracking of orders.

### Motivation

To cater to the increasing demand for convenient food delivery services and to provide a seamless experience for users and restaurants.

### Related Works/Review

Existing platforms like Uber Eats, DoorDash, and Grubhub have set standards in the industry. Our project aims to integrate similar features with additional enhancements to improve user experience.

### Gap Analysis

Despite the availability of various food delivery applications, there is room for improvement in user interface design, real-time order tracking, and restaurant management. This project addresses these gaps.

## System Architecture

### System Overview

The system comprises a web-based application that connects customers, restaurants, and delivery personnel, facilitating seamless food ordering and delivery.

### System Components

* + - **Frontend:** HTML, CSS, JavaScript
    - **Backend:** PHP, MySQL
    - **Middleware:** APIs for payment processing and geolocation
    - **Database:** MySQL for data storage

### Architecture Diagram



Figure 1: Architecture of online food delivery system

## Project Features and Interface

### List of Features

* + - User registration and login
    - Restaurant and menu browsing
    - Order placement and payment processing
    - Real-time order tracking
    - Reviews and ratings
    - Admin panel for management

### User Interfaces

* + - **Customer Interface:** Allows browsing, ordering, and payment.
    - **Restaurant Interface:** Manages orders and menus.
    - **Delivery Interface:** Provides real-time order updates.
    - **Admin Interface:** Dashboard for system management.

### Input Output Demo

* + - **Input:** User registration details, order information, payment data.
    - **Output:** Order confirmations, real-time updates, notifications.

## System Implementation

### Development Tools & Technologies

* + - **Frontend:** HTML, CSS, JavaScript
    - **Backend:** PHP (Laravel), MySQL
    - **Tools:** Git, Visual Studio Code, Postman

### Implementation Plan

1. Requirement analysis and design
2. Frontend and backend development
3. Integration and testing
4. Deployment and maintenance

### Testing and Validation

* + - **Unit Testing:** Individual components
    - **Integration Testing:** Combined components
    - **System Testing:** Complete system functionality
    - **User Acceptance Testing (UAT):** Ensures system meets user requirements

## Future Scope and Limitation

### Limitation

* + - Initial version lacks advanced AI features.
    - Requires internet connectivity.
    - Continuous updates and maintenance are necessary.

### Future Scope

* + - Integration of AI for personalized recommendations.
    - Development of mobile applications for Android and iOS.
    - Support for multiple languages and currencies.

### Conclusion

This project aims to create an efficient and user-friendly online food delivery system, addressing current market gaps and enhancing user experience for both customers and restaurants.

## References

* + - "E-commerce Systems," John Wiley & Sons, 2021.
    - "Web Application Development," McGraw-Hill, 2020.
    - Uber Eats, DoorDash, Grubhub websites for feature analysis.