**A PROPOSED OFFERING OF BUS TICKETING AND BOOKING SYSTEM**

**FOR VICTORY LINER INC.**

A Project Proposal Presented to the

Faculty of Datamex College of Saint Adeline, Inc.

In Partial Fulfillment of the Requirements for the

Degree of Bachelor of Science in Information Technology

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**DEPLOYMENT DOCUMENTATION**

**INTRODUCTION**

**Project Description:**

The Bus Ticketing System is designed to efficiency ticket reservations, seat allocation, fare calculation, scheduling, and user management for bus operators. It replaces manual processes with a digital solution for efficiency and accuracy.

**Objective of the Deployment:**

To launch the Bus Ticketing System into the live environment so it can be used by staff, dispatchers, conductors, and customers.

**Scope of Deployment:**

Full deployment across all relevant terminals and departments, including admin portal, booking interface, and reporting modules.

**Deployment Plan**

**Overall Strategy:**

Use a staged rollout, beginning with pre-deployment setup, followed by system installation, and ending with monitoring and user feedback.

**Deployment Schedule & Milestones:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Phase** | **Description** | | | **Start date** | | **End date** | | **Status** |
| Pre-Deployment | Preparing the environment, configuring settings | | | 09/19/2025 | | 10/20/2025 | | Completed |
| Deployment | Installing and setting up the system | | | 09/23/2025 | | 10/25/2025 | | In Progress |
| Post deployment | | | Testing, monitoring, and support | 10/28/2025 | | 11/12/2025 | | Pending | |

**Deployment Environment**

**Hardware Requirements:**

Server with sufficient storage and RAM (8GB+ RAM, 500GB storage)

Stable network connection

**Client devices:** desktops, laptops, tablets

**Software Requirements:**

**Operating System:** Windows Server / Linux

**Database:** MySQL / PostgreSQL

**Frameworks:** Visual Basic

**Web server:** Apache / Nginx

**Hosting Information:**

Hosted on cloud server or local data center

Domain and SSL configured (if applicable)

**Deployment Procedures**

**Pre-Deployment Steps**

Backup existing records or legacy system data

Install required software and configure the database

Test network connectivity and compatibility

**Deployment Execution**

Upload application files to the server

Configure environment variables, API keys, and database connections

Initialize the system and check for deployment errors

**Post-Deployment Steps**

Run test cases to verify functionality (booking, cancellation, schedules)

Monitor system stability and performance

Provide initial user training (admins, ticketing staff)

**User Training & Support**

**Training Schedule:** Admin and booking staff training immediately after deployment

**User Documentation:** Quick guides and manuals for booking, reporting, and account management

**Support Contact:** IT support team or system administrator for troubleshooting

**Risks & Contingency Plan**

|  |  |  |
| --- | --- | --- |
| **Risk** | **Impact** | **Mitigation Strategy** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Server downtime** | | **High** | **Maintain backup servers and inform users in advance** | | |
| **Database connection failure** | **Medium** | | | **Test connections before deployment and monitor logs** | |
| **User resistance** | **Low** | | **Provide proper training and support** | | |
| **Network interruptions** | **Medium** | | | | **Ensure redundant connectivity and offline booking options** |
| **Data migration errors** | **Medium** | | **Perform backups and test imported data beforehand** | | |

**Deployment Verification & Sign-off**

**Summary:**

All core modules of the Bus Ticketing System (booking, schedule management, reporting, seat allocation) were tested and confirmed functional during deployment. No major issues remain.

**Sign-off:**

Stakeholder Role Signature DateName Project Manager Name Client Representative