**A PROPOSED OFFERING OF ONLINE DANCE CLASS BOOKING**

**MANAGEMENT SYSTEM FOR ZERO STUDIO PH**

A Deployment Plan Document 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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**INTRODUCTION**

The Online Dance Class Booking Management System for Zero Studio PH is designed to streamline the process of booking, scheduling, and managing dance classes. The deployment of this system aims to automate manual tasks, reduce booking errors, and improve accessibility for both administrators and clients through an online platform.

The objective of this deployment is to ensure a smooth transition from manual booking processes to an automated, cloud-hosted system accessible 24/7. The deployment scope covers the full production implementation hosted on a cloud environment using Firebase and integrated web technologies.

**DEPLOYMENT PLAN**

The deployment strategy will follow a structured approach to ensure system stability and readiness.

**Phases and Milestones:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Description | Start Date | End Date | Status |
| Pre-Deployment | Prepare environment, configure cloud hosting and database | O9/10/2025 | 09/17/2025 | Completed |
| Deployment | Upload files to Firebase hosting and configure live server | 09/17/2025 | 09/26/2025 | In Progress |
| Post-Deployment | Testing, monitoring, and maintenance | 10/6/2025 | 10/11/2025 | Pending |

**DEPLOYMENT ENVIRONMENT**

**Hardware Requirements:**

- Client devices: any device with internet access (pc, laptop, tablet, or smartphone).

- server: cloud-hosted (firebase hosting).

- internet connection: minimum 5 mbps connection for optimal performance.

**Software Requirements:**

- operating system: cross-platform (windows, macos, android, ios).

- database: firebase firestore database.

- frameworks: node.js, react.js (for frontend), firebase sdk.

**Hosting Information:**

- cloud provider: firebase by google.

- domain: zerostudioph.com (to be configured).

- deployment type: cloud-based, continuous integration enabled.

## **4. Deployment Procedures**

### **4.1 Pre-Deployment Steps**

- backup existing client and schedule data.

- configure firebase project and enable firestore database.

- set up domain dns and ssl certificate.

- ensure compatibility across devices and browsers.

### **4.2 Deployment Execution**

- upload source files to firebase hosting environment.

- configure api keys and environment variables.

- initialize firestore database and link to frontend application.

- perform system testing and error verification.

### **4.3 Post-Deployment Steps**

- conduct live system monitoring for 48 hours.

- gather feedback from admin and users.

- apply necessary patches or bug fixes.

- begin regular system maintenance cycle.

## **5. User Training & Support**

- conduct online training for administrators and instructors on how to manage schedules and bookings.

- provide user manual and quick-start guide for clients.

- offer technical support via email and chat for 30 days after deployment.

## **6. Risks & Contingency Plan**

|  |  |  |
| --- | --- | --- |
| Risk | Impact | Mitigation Strategy |
| Server downtime | High | Enable automatic backups and use Firebase uptime monitoring. |
| Database connection failure | Medium | Test connections and use Firebase’s built-in redundancy. |
| User resistance to change | Low | Conduct training and provide clear user instructions. |
| Slow performance | Medium | Optimize assets and enable caching for faster loading. |

## **7. Deployment Verification & Sign-off**

Deployment verification involves validating that all system features function as expected, including booking, payment processing, and notification delivery. Upon successful testing, the deployment will be formally signed off by stakeholders.

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| --- | --- | --- | --- |
| Stakeholder | Role | Signature | Date |
| Huerto, Allen Ace | Project Leader |  |  |
| Yana, Jovan | | Software Engineer |  |  |
| Sang-an, Charlotte | | Data Gatherer |  |  |
| Tipay, Ronillo | | Data Gatherer |  |  |