**A PROPOSED OFFERING OF WEB-BASED RESERVATION SYSTEM FOR THE ADDLIB DANCE STUDIO AT DATAMEX COLLEGE OF SAINT ADELINE VALENZUELA BRANCH**

A Research Project 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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**PROJECT PROPOSAL**

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# **INTRODUCTION**

Addlib Studio is a well-loved dance studio in Cubao, Quezon City that offers a bunch of different classes for people of all ages and skill levels. Whether you’re a total beginner just wanting to try something new, or an experienced dancer looking to improve your skills, Addlib Studio has something for everyone. The studio is known for being welcoming and supportive, creating a space where people can have fun, stay active, and feel part of a dance community.

Right now, the studio mostly uses walk-in reservations, which means if you want to join a class, you have to actually go to the studio to book a spot. While this works, it’s not always convenient. Sometimes, you might make the trip only to find that the class you want is already full. It can be frustrating and feel like a waste of time, which makes booking more stressful than it should be.

For the staff, managing all these walk-in reservations can be tricky too. When a lot of people try to book at the same time, mistakes can happen like double bookings or missing a reservation. This can mess up the schedule and make things harder for everyone.

To fix these problems, Addlib Studio came up with an Online Reservation System. This system makes booking classes way easier because you can do it online, anytime, anywhere. All you have to do is sign up using your Gmail account, which keeps your profile safe and secure. Once you’re signed up, you can request a class reservation. The admin will then check your request and approve it. You won’t get an email notification, but you can log in to your user dashboard to see if your booking was approved and check your schedule.

The system also helps the staff a lot. Every booking is automatically recorded, so they can see which classes are full, avoid double bookings, and keep track of everything easily. The admin dashboard lets them manage schedules, approve or decline bookings, and even create reports, which makes running the studio smoother and less stressful.

All in all, the Online Reservation System makes life easier for everyone. Clients don’t have to go to the studio just to book a class, and staff can handle schedules without worrying about mistakes. With Gmail sign-up and a dashboard to check bookings, the system keeps accounts secure, bookings organized, and communication clear. It’s a simple, modern solution that helps Addlib Studio run better and makes booking a class way more convenient and stress-free for everyone.

**CLIENT INFORMATION**

The Addlib Dance Studio is a vibrant dance community located in Cubao, Quezon City, Philippines. Known as "your rainbow home," it offers a welcoming space for dancers of all levels. The studio provides various dance fitness and yoga classes, catering to diverse interests and skill levels. With experienced instructors and a supportive environment, TADS fosters growth and creativity. It's an ideal spot for those looking to express themselves through dance. The studio aims to make dance accessible to everyone, promoting inclusivity and fun. Whether you're a seasoned dancer or just starting out, TADS invites you to join their community.

The studio is home to the award-winning dance troupe, The Addlibs, who also teach classes. Their expertise and passion for dance are evident in every session. TADS offers a range of classes, including K\*Fit, Hip Hop Fitness, and Power Yoga. The studio's goal is to provide a safe and encouraging space for dancers to learn, grow, and thrive. With its positive vibe and supportive community, TADS is an excellent choice for those looking to improve their dance skills or simply have fun. The studio's location in Araneta City makes it easily accessible by public transportation or private vehicle. By joining TADS, dancers can expect to develop their skills, build confidence, and connect with like-minded individuals. The studio's emphasis on community and creativity makes it a unique and enjoyable experience for all members.



Name: Addlib Studio

Location: 2F New Frontier Theater Arcade, 7 Gen. Malvar Ave. Araneta City, Brgy. Socorro, Quezon City, Philippines 1109

Contact: 0939-904-2108

Owner: Missjoe Abuda

# **PROJECT SCOPE**

The project will create a secure, web-based Online Reservation System for Addlib Studio that makes booking classes easier and more organized. The system will automatically track class schedules to prevent double bookings and scheduling conflicts. Both staff and admins will have dashboards to help them manage schedules, monitor attendance, and generate reports.

The system uses role-based access, so everyone has the tools they need. Clients will sign up using their Gmail account and confirm their registration by clicking a link in their email. Once their account is confirmed, they can request class reservations. Two admin users will review each request and either accept or deny it. Accepted bookings can be viewed on the client’s user dashboard, making it easy to check schedules without waiting for email notifications.

The platform is mobile-friendly, so clients can book classes, check waitlists, or cancel reservations anytime and anywhere. Staff and instructors can manage classes, while owners and admins can oversee schedules, reports, and client activity..

## **Expected Deliverables**

1. A working **online reservation system** that can be used on desktop or phone to manage studio booking.
2. An easy-to-use interface for clients to make bookings and for staff to check and update them. A search function will allow staff to quickly find reservations by name, date, or booking number.
3. Key features including schedule tracking, booking confirmation by admins, waitlists, and client dashboard to view accepted reservations
4. A login system with two roles Client and Admin each with the prop

## **Expected Outcomes**

1. Faster and more organized reservation process compared to the current walk-in method
2. Less time and effort for both staff and clients because booking can be done online.
3. Easier for owners and staff to see reports and booking history, which helps them make better decisions.
4. Avoids double bookings and schedule conflicts since everything is tracked in real time.
5. Happier clients because they can book anytime and get updates quickly.

## **Exclusion**

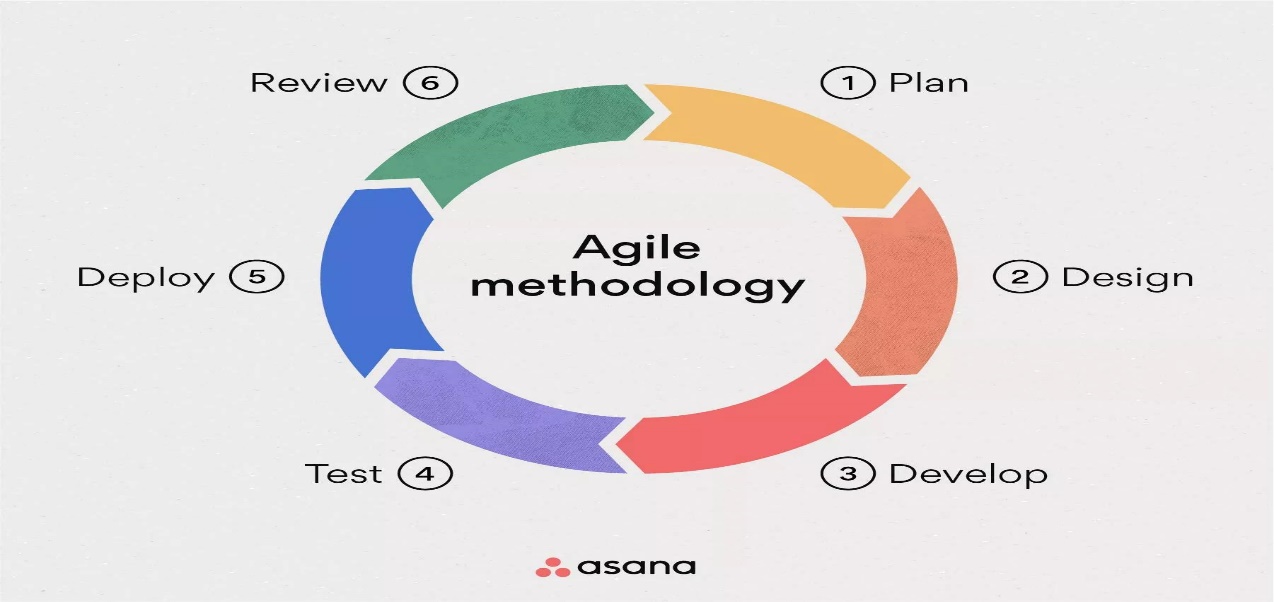
1. Physical cash payments at the studio are not tracked in the system.
2. Clients cannot see schedules for classes they haven’t booked.

## **Assumptions**

1. Clients have internet and mobile access to make reservations.
2. The admin will always check and confirm bookings on time.
3. Clients will provide true and updated contact information.

## **Constraints**

1. Client need wifi to access our online booking system.
2. Notifications depend on our staffs to message you the notification and update toward your reservation

 **PROJECT APPROACH**

# The Client management and website development for Addlib studio will follow the Agile approach, allowing the development team to work in small phases. This method supports continuous feedback, quick adjustments, and ensures that the system meets the actual needs of the store throughout the project.

1.The project will start with **planning**. The team will talk with Addlib Studio to know what is needed. The main features to be included are online booking, schedule checking, booking confirmation, waitlists, notifications, and an admin dashboard.

2.Next is the **design stage**. Here, the team will make the layout of the system, the database, and the flow of how bookings will work. The design will make sure the system is easy for clients to use and helpful for staff and admins.

3.After the design, the team will **develop** the system. They will build the main functions, like making and updating bookings, searching for reservations, confirming or canceling requests, generating reports, and sending email or SMS updates.

4.When the system is built, it will go through **testing**. The team will check for errors, make sure bookings are correct, avoid double bookings, and confirm that notifications are working properly.

5.Once testing is done, the system will be **deployed** set up at Addlib Studio. The staff and admins will be shown how to use it through basic training.6.The last step is the **review stage**. The team will check how well the system is working, ask for feedback from users, and make improvements in future updates.

**PROJECT TEAM**

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| --- | --- |
| No description available. | Project Leader: Princess Mahallalel Bacani |
| No description available. | Programmer: Steven Carl Mejila |
| No description available. | System Analyst: Arjay Delos Angeles |
| No description available. | Data Gatherer: Sakura Ann Norte |

**PROJECT TIMELINE**

|  |  |
| --- | --- |
| Week 1–2: Planning | * Gather data and information about the system. * Identify the needs of the users (clients and staff). * Decide what type of system to develop and set project objectives. * Define scope, requirements, and initial resources. |
| Week 3–5: System Design | * Create flowcharts and use case diagrams to visualize processes. * Design the user interface (UI) and user experience (UX). * Prepare database design and overall system architecture. * Review design with the team to ensure it meets requirements. |
| Week 6–13: Development (Coding & Building Functions) | * Write code for front-end and back-end. * Develop core features and functions of the system. * Integrate database with system modules. * Conduct unit testing for individual components while coding. * Document the development progress. |
| Week 14: Testing | * Perform system testing to check for bugs or errors. * Conduct functional testing (check if all features work as intended).   Perform compatibility and usability testing.   * Fix detected errors and optimize performance. |
| Week 15: Deployment | * Install and set up the system in the real working environment. * Ensure system is accessible on required devices (computer, mobile). * Provide initial training for staff and users. * Monitor the system during the launch for unexpected issues |
| Week 16: Review and Feedback | * Collect feedback from clients and staff regarding usability and performance. * Identify possible improvements or additional features. * Prepare documentation for future updates or expansions. * Final evaluation and project closure. |

# **PROJECT RESOURCES**

1. Hardware Resources

* Personal Computers (PCs): Used by developers for coding, database management, and testing.
* Laptops: Provide flexibility for team members to work remotely or during client meetings.
* Server (optional): For hosting the backend system and database during deployment.
* Networking Devices (Router, Switch, Internet Connection): To ensure connectivity and collaboration between team members.
* External Storage/Cloud Storage: For backup of project files, database, and documentation.

2. Software Resources

* Backend Development:*Node.js* – To handle server-side logic and API development.
* Database Management:*SQL Server Management Studio (SSMS)* – For designing, managing, and maintaining the database.
* Frontend Development:*HTML, CSS, JavaScript* – To design and develop the user interface of the system.
* Design Tools:*Figma / Adobe XD / Canva* – For UI/UX design and prototyping.

3. Human Resources

* Programmer/Developer:Responsible for coding, debugging, and integrating system modules (frontend & backend).
* Designer (UI/UX):Creates user-friendly and visually appealing interface layouts.

**RISK MANAGEMENT**

Managing potential risks is important for the smooth implementation of the **Online Reservation System for Addlib Studio**.these are the possible technical issues that we may face.

**1. Technical Issues** One possible risk is facing technical problems, such as system bugs, server errors, or software not working properly. These issues can delay development or affect the system when it is in use. To avoid this, the team will do regular testing, use trusted tools, and keep technical documentation updated so problems can be fixed quickly.

**2. Data Loss or Security Problems**  
 Since the system will store important client information and reservation details, data loss or security breaches are a concern. Losing information or having it accessed by the wrong people could harm the studio’s operations and client trust. To reduce this risk, we will back up data regularly, use strong passwords, limit access to authorized staff only, and apply basic security measures such as encryption.

**3. Delays in Development**  
 Delays may happen if some tasks take longer than expected or if unplanned issues come up. To handle this, we will use a flexible 16-week timeline with some buffer time and check progress regularly to keep the project on track.

**COMMUNICATION PLAN**

Kick-off Meeting

* Frequency: Once at the start of the project
* Format: In-person or virtual meeting
* Purpose: Introduce team members, explain project goals, deliverables, timeline, and assign roles

Weekly Status Meetings

* Frequency: Once a week
* Format: Virtual meeting (video conferencing)
* Purpose: Review project progress, discuss challenges, and update tasks. Each team member will share their current status and any issues they face.

Testing Review Meetings

* Frequency: After each testing phase
* Format: In-person or virtual
* Purpose: Check system testing results, review bugs found, and assign fixes

Deployment Meeting

* Frequency: Once, before system deployment
* Format: In-person or virtual
* Purpose: Final review of the system, confirm readiness for use, and plan basic training for staff

Project Review Meeting

* Frequency: Once at the end of the project
* Format: In-person or virtual
* Purpose: Review overall project performance, gather feedback from the team and Addlib Studio, and discuss improvements for future updates

**PROJECT GOVERNANCE**

The **Project Manager** will guide the whole development of the Online Reservation System for Addlib Studio. The Project Manager’s job is to lead the team, assign tasks, check progress, and make sure that work is finished on time. They will also make sure the system is built based on what Addlib Studio needs.All big decisions about the **scope** (what the system will include) and the **timeline** (how long the project will take) will be decided together by the **Project Manager** and the **Studio Owner**. This way, both the team and the studio are always in agreement, and the project can run smoothly

**Approval**

This document and the system described herein have been read and accepted by the undersigned. The acceptance confirms that the requirements were properly addressed and that the Online Reservation and Management System developed meets Addlib Dance Studio's expectations and operational needs.

**Prepared by: Approved**

**Rezivo Gabriel Thomas Torneros**

**Product Owner SoftEngineer Teacher**

**APPENDIX**

Online reservation and management systems are now common in many businesses because they make transactions faster and easier. These systems help companies manage bookings, save time, and keep records more organized. They are also useful for customers since reservations can be done anytime and anywhere using the internet.

Local Studies

Some local studies show how reservation systems are applied in the Philippines. For example, Lapuz, Riguera, Sesbreno, Torres, and Franco (2021) created a web-based venue and reservation system that also has data visualization to help with event management. Their study shows how online systems can make processes more efficient. In another study, Firmansyah, Razak, and Sofyan (2024) developed an online reservation system for a photo studio. The result of their project showed that it improved the speed of transactions and reduced errors. These studies prove that reservation systems are very useful for businesses in the local setting.

Foreign Studies

There are also studies from other countries that explain the benefits of online reservation systems. Halkiopoulos, Antonopoulou, Papadopoulos, Giannoukou, and Gkintoni (2020) discussed how online reservation systems affect decision-making in e-tourism. Hardiyansyah and Zen (2023) studied how websites with company profiles and reservation features can attract more customers. Another study by Işkın, Prentice, Eker, and Şengel (2024) showed that reservation systems help travel agencies become more competitive by improving their services. These foreign studies show that reservation systems are important not only in local businesses but also in the global market.

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