

Sri Lanka Institute of Information Technology



Lavendra Photography Management System

Project Proposal Report

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## 1. Background

Lavendra Wedding Films [1] is a professional photography company with 8 photographers that provides various services, including Event photography, Wedding shoots, and Equipment Rentals. It is currently carried out through WhatsApp, Facebook, and phone calls. Currently it does not have a website.

Lavendra currently communicates with the customers through WhatsApp and phone calls. The photographer tells all the details about the packages through the phone call and the customer chooses a suitable package. The photographer records the booking details such as date and time in a book. After the event is over, the payment process is done by sharing bank details with the customer and the customer makes the payment and sends the payment receipt to the photographer through WhatsApp. It is difficult for the photographers to manually check the payment receipts and confirm whether the customer has actually paid or not. After confirming the customer has paid the relevant amount, the photographer delivers the photos to the customer in a pen drive or using a Google Drive.

The manual booking process of Lavendra Wedding Films photography business has led to many problems like inefficiencies in resource management, double bookings, and customer dissatisfaction. Photography businesses rely heavily on efficient scheduling and resource management to maintain customer satisfaction and operational efficiency. The manual-based business process will often result in scheduling conflicts, miscommunication, and makes it difficult for customers to book sessions. Additionally, the photography business faces the challenge of tracking the details related to renting the photography equipment for a certain period.

Digitalizing the manual process of the Lavendra Wedding Films Business will increase its competitiveness and will boost sales. It will provide a seamless experience for both Customers and Photographers.

The Lavendra Photography Booking Management Web Application will provide solutions for the above inefficiencies by allowing users to book packages on the website, and handle payments through an online payment portal. The system will also include Google Calendar-based optimization for booking management to maximize resource utilization and minimize conflicts. By adopting this solution, the client can improve customer engagement, reduce administrative workload, and enhance overall business operations.

## 2. Problems and Motivations

### **Problems**

Lavendra Photography is experiencing certain problems because of its manual business process, and they are affecting its efficiency and customer experience negatively. The primary problems which we experienced were:

- Manual booking process**

Currently, bookings are performed manually with the assistance of telephone communication and notebooks. This generates errors in scheduling due to booking information can be misspelled or lost. Additionally, it provides double bookings as the same slot can be allocated to multiple clients because of human error. As a result of these problems, the company loses potential customers in terms of scheduling inefficiencies and errors.

- No Centralized System for Handling Payments and Customer Information -**

There is no proper handling of customer records and payments. As a result, it is hard to track payments because payments can be lost or not recorded at all. Further, client information is not stored in a database with a valid structure, therefore follow-ups become cumbersome.

This could lead to delayed payments, customer dissatisfaction, and administrative bother.

- Inefficient and outdated Photo Delivery Mechanism –**

Currently, Lavendra Photography is emailing photos in the shape of USB drives, which is not convenient for the customers because the customers need to visit the studio to collect their photos and there are chances of losing data if the USB is misplaced or damaged. Also, the customers cannot download their photos instantly because there is no access online.

- Limited opportunities for business expansion**

There are not any marketing and blog features for promoting photography services. Moreover, customer review is a very important aspect of the business growth. There is not any appropriate way to collect customer reviews in this current process.

- Poor Customer Experience and Engagement –**

Customers cannot view and manage their bookings online and do not have a contact system for instant communication with the photographer. It is an old system, cumbersome, and does not provide smooth experience to clients.

## **Motivations**

With the implementation of an Automated Photography Booking Management System, Lavendra Photography can achieve greater efficiency, security, and usability. The main motivations are:

- Streamlining the Booking Process**

The customers can book their photography sessions online by selecting a suitable package and time slots. Automated scheduling reduces double booking and errors. It saves business time and customers' time with error-free bookings.

- Secure and Centralized Payment Management**

Secure payments are made online by customers using the automated system. Customer details and transaction history are stored in a central system. It provides benefits such as improved financial monitoring, reduced administrative work, and increased customer confidence.

- Online Photo Delivery System**

A secure online gallery allows customers to download their photos at any time and from anywhere. It is a fast, convenient, and secure method of delivering photos to enhance customer satisfaction.

- Expanding Business Opportunities**

A blog system helps in promoting Lavendra Photography's recent work by pointing out recent photoshoots. Because of that, Lavendra Photography can gain credibility and gain potential clients. Furthermore, a review system helps in improving the services provided by the company.

### **3. Aim and Objectives**

#### **Aim**

The Main aim of Lavendra Photography Management System is to avoid all the problems of manual bookings, inefficient payment system, outdated photo delivery methods and develop an efficient web application that digitizes bookings, enhances customer experience, secures user privacy, and provide a user friendly and reliable approach to both photographers and customers who use it.

- Enable Online Bookings**

The web application should allow users to choose their favorite package and add it to the shopping cart and customize package according to their need through the shopping cart.

- Ability to rent photography equipment online.**

Lavendra Photography Management System displays all the rental equipment they intend to sell on the Rental web page and other photographers can browse through that list and book the required item without any hassle.

- A safe payment portal**

A safe payment portal with options of stripe and bank cards will be provided to the user and the user can choose the preferred payment method and continue the payment with maximum security.

- Provide a digital gallery.**

A digital gallery where the photographer can upload photos will be provided to public albums and if the customer requests to keep their photos private, a private album will be shared to the customer with a unique access link.

#### **Objectives**

- Efficient Requirement Gathering and Analysis**

Collecting requirements using requirement engineering methods.

- Strategic System Design and Planning**

Design Architecture, database and Wireframes

- Comprehensive Frontend and Backend Development**

React for frontend and NodeJS, express.js for backend, MongoDB as database

- Create a Package Management feature.**

Photographers can add their packages to the website and the customers can browse and choose the preferred package.

- **Implement a Shopping cart feature.**

Customers can adjust the number of photographers they want, book multiple packages, and check the availability of the photographers in the Shopping cart.

- **Add secure Payment Management**

Implement a safe and easy-to-use payment system that enables hassle-free transactions.

- **Provide efficient Digital Gallery Management**

Allow photographers to upload and share photo albums while enabling customers to view and download their photos.

- **Enable digital Rental Photography Equipment Management**

Enable other photographers to browse available rental items and reserve the equipment they require without any issues.

- **Implement an effective Inquiry Management**

Allow customers to ask questions and receive quick responses.

- **Add a effective Reviews and Rating Management**

Allow customers to leave honest reviews and ratings about the website.

- **Develop an efficient Admin dashboard.**

Provide an all-in-one dashboard that automates administrative tasks and display insightful analytics for efficient management.

- **Enhance user profile management.**

Allow users to register, log in and manage their user profile with ease. This will include options for updating personal information and tracking booking history.

- **Introducing a Notice Management system.**

Implement a noticeboard for admins to post new announcements and updates to keep the users informed.

- **Add a Blog Management**

Photographers can publish creative and eye-catching blogs about the events they have completed.

- **Implement an organized Delivery Management system.**

Establish a delivery system that has a leaflet map to identify routes.

- **Integrating Google Calendar**

When a user reserves a booking, it will be automatically recorded in the google calendar with the relevant date and the time

- **Testing and debugging**

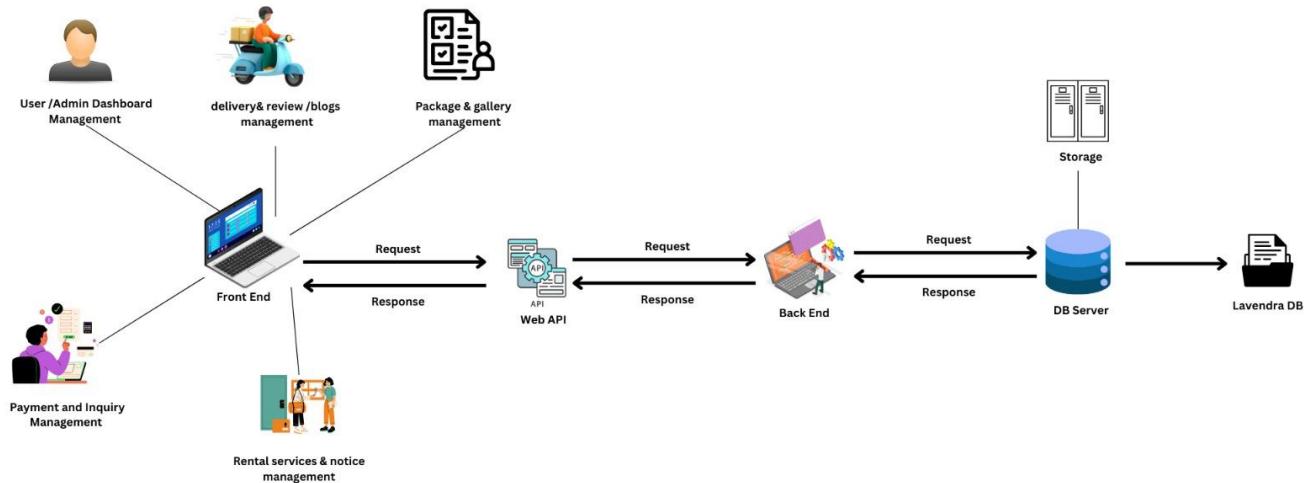
Evaluating functionality, security and performance

- **Maintenance**

Supports for future updates of the system

## 4. System Overview

### System Diagram



### Functional Requirements

#### 1. User / Admin dashboards

The user account management system under Lavendra Photography Booking provides an easy and secure way for users to manage their profiles at good speed. Users are empowered to set up their accounts, edit their profiles or cancel their accounts with full display of booking history, payment history, and rental services. The feature itself is very convenient and transparent; users are proud to view their past transactions easily. Security is foreseen at a higher level; the credentials are monitored, and user data is protected under all circumstances. The admin could have partial monitoring of user activity, identifying patterns, which could facilitate informative report generation from the embedded analytics dashboard. The admin can specify certain settings of the system concerning user roles and permissions to have a methodical and controlled user management system.

Admin Dashboard is action-oriented yet performs the real-time monitoring of activities-it enables administrator user(s) to add, check, modify or delete bookings and payments of system-wide integrity. An interface emphasizes an easy-to-use, stylish, and responsive dashboard usability from variety of devices like desktops and tablets. Designed to support a minimum of 100 concurrent users without compromising on system performance, the system backs instantaneous update for new booking and payments to guarantee data reliability tracking. Loading in just three seconds, the dashboard provides a wonderful user experience with smooth navigation and easy access to critical information.

## **2. Payment & Inquiry management**

Payment management function in Lavendra Photography Booking System is designed to facilitate smooth and secure payment process for customers . The system supports multiple payment methods including credit/debit cards, bank transfers and digital wallet .Lavendra integrates with Stripe API for seamless transactions. After a successful transaction , the system automatically confirms the payment while booking status updates occur with the generation of specific payment IDs. The system checks all payment information extensively before the transaction process to maintain safety and security standards. Users acquire PDF files with invoices when their bookings get confirmed via the system. User convenience is provided by payment confirmation emails which come with attached receipts. Users can view payment status updates in real-time through the system since payments display as Paid or Pending or Failed conditions and users have access to their transaction history for additional understanding. Users receive automatic payment reminders for incomplete payments and notified of transaction failures through system notifications along with retry functionalities which optimize the payment tracking process.

The Inquiry Management module aims to streamline the process of managing customer inquiries. Users access an online form to submit inquiries containing necessary fields that consist of name, email, phone number, subject and message. Users have access to an online form that enables them to add relevant images and documents with their inquiries for complete information collection. After submission users will receive instant emails verifying that their inquiry was received successfully. Each inquiry goes into predefined categories including General and Booking and Payment and Technical Support before the system generates individual reference numbers for simple inquiry following.

### **3. Rental Services and Notice Management**

The rental service platform of the Lavendra photo booking system ensures a seamless experience for users while providing administrators with a structured and efficient way to manage rental goods. The system features a filter option, allowing users to search for equipment based on their specific needs. The central section of the page presents visually available rental items with images, giving users a clear understanding of what can be hired. After selecting an item, users are redirected to a detailed view page that displays key information such as rental price, item specification, and availability status (whether or not the item is available) per day. Users can choose their desired rental time by choosing the item pick-up date and item return date, which makes it easier to plan their booking. This system is designed to simplify the rental process, improve user convenience, and improve overall operating efficiency for administrators.

The Lavendra photo booking system of the rental item add management feature is designed to educate users about important rental updates. Before integrating full functionality, this section will serve as an admin to display notifications related to rental items, such as available updates, forward benefit reminders, and booking confirmations. Users will be able to view the basic details of rental ads, ensuring they stay up to date on their rental status. Administrators are able to efficiently manage and organize ads while ensuring timely communication with users. This feature aims to streamline the rental process by improving user awareness and educating all stakeholders about essential rent-related information.

#### **4.Package and Photo Gallery Management**

The Lavendra Photography Management Web Application provides an option for the customers to browse through and view the details of the available packages and book the selected package after entering the date and time. Customers can add special requests they need when booking the packages. The bookings are automatically recorded in the Google Calendar integrated into the web application. The packages are listed in the Packages web page with price, the photographer's name with a "add-to-cart" button. The real-time availability of the package is shown to the customer. The customers can add one/multiple packages to the Shopping Cart and adjust the number of photographers they need in the Shopping Cart. The total is calculated automatically and shown to the customer. Next the customer can click on the button "proceed to pay".

After the Event is conducted successfully, the edited photo Album will be provided to the customer in "Gallery" web page. These albums can be filtered according to the package name. Photographers can add, view, edit and delete these albums. If the customer needs an album with private access, photographer can add photos to a different User Interface which is integrated into Cloudinary software, and the customers will receive a private access link to their albums. Users can perform various enhancements such as crop, resize, perform AI enhancements to the photo album using Cloudinary Software [2]. These photo albums can be downloaded.

## **5. Delivery, Review and Blog Management**

The Delivery Management function in the Lavendra Photography Management system ensures seamless and efficient delivery of rental items such as lenses, tripods, and flashes. The system uses Leaflet, an open-source mapping library, to display the locations of all the deliveries. So, the delivery person can access an interactive map that shows the delivery addresses' locations. Customers can track their deliveries in real-time using the system, where each delivery is linked to a unique delivery ID. The admin or the delivery person can update delivery status by displaying them as Pending, Out for Delivery, or Completed. Furthermore, customers receive notifications about delivery status efficiently. Upon delivery completion, users receive a confirmation email. Admins can monitor and manage deliveries through a centralized dashboard, ensuring smooth tracking and order fulfillment.

The Review Management function allows customers to share their experiences about services provided by the Lavendra Photography Management system. Customers can rate the system from 1 to 5 using star ratings, and they can submit detailed reviews after completing their bookings. Also, customers can edit or delete their reviews, enabling them to update their feedback if necessary. The system provides searching and filtering features, allowing users to easily find specific reviews based on ratings, keywords, or date. This ensures a more convenient and efficient way for customers to explore reviews relevant to their interests. This feature helps to improve service quality by collecting valuable feedback from customers.

The Blog Management function allows admins to share updates about conducted events and photoshoot details within the Lavendra Photography Management system. Admins can create and publish blog posts featuring event highlights, behind the scenes moments, and photography experiences. This function also supports image uploads, enabling a more visual and engaging representation of past projects and showcasing the photographer's work. Both registered and unregistered users can view the published blog through the blog page. Additionally, the system offers search and filtering options, allowing users to filter blogs by publication date or category. This feature helps keep users informed and engaged by giving them a glimpse into previous events and successful photoshoots. Also, this helps to gather new customers to the system.

## **Non-functional requirements**

### **Accessibility**

The system must be accessible to users with disabilities or other special needs, with features that allow all users to access and use the system.

### **Performance**

The system must be able to perform its desired tasks quickly and efficiently, with fast response times and minimal downtime.

### **Usability**

The system must be easy to use and navigate, with an intuitive interface accessible to users with varying levels of technical expertise.

### **Functionality**

The system must meet the functional needs of users, which may include specific features or capabilities that the system must have to meet the user's needs.

### **Scalability**

The system must be able to scale to handle increasing amounts of data, users, or transactions without sacrificing performance or stability.

### **Maintainability**

The system can be maintained with the ability to update or modify the system as needed to correct errors, add features, or improve performance.

### **Security**

The system must be secure and protect user data and sensitive information from unauthorized access or attack.

### **Compatibility**

It should work seamlessly with other software or systems, enabling smooth data transfer and integration as needed.

### **Cost**

The system must be cost-effective, with a reasonable cost that is consistent with the value it provides to the user.

## **Reliability**

The system must be reliable and able to operate continuously without failure or unexpected downtime.

## **Technical requirements**

- **Storage** -The application utilizes local web browser storage to store user information and authentication tokens securely. This approach ensures rapid data access and provides offline availability, enhancing usability and reliability.
- **Security** -A robust user authentication system is implemented to protect sensitive information and prevent unauthorized access. Additionally, authorization mechanisms are integrated to restrict access to specific pages based on user roles, ensuring data security and privacy.
- **Databases** - MongoDB is employed for data storage and management due to its flexibility, scalability, and schema-less structure. A well-structured database design is developed to enable efficient organization and retrieval of data.
- **Client-Server Architecture** - The system adopts a client-server architecture, where the web browser (client) interacts with the server to process data operations. This architecture enhances security, scalability, and simplifies maintenance, contributing to the system's overall efficiency.
- **Compatibility with different Web Browsers** - The user interface is developed using React to ensure compatibility with widely used web browsers such as Chrome, Firefox, Safari, and Edge. This guarantees consistent and seamless user experience across different platforms.
- **Programming Languages and Frameworks** - JavaScript is utilized as the primary programming language for both front-end and back-end development. The React framework is leveraged to build dynamic, interactive, and user-friendly web applications.
- **Libraries** - Reduce is seamlessly integrated with React to efficiently manage application state and handle intricate state transitions. This integration enhances performance, scalability, and maintainability, ensuring the application runs smoothly and reliably.

## 5.Literature Review

Nowadays Photography industry is increasingly using technology to enhance workflow efficiency ,user experience , user satisfaction and booking managements. There are different web applications available that assist photographers in running their businesses. In this paper we review 5 existing web applications – **ShootProof** [3], **Pixieset** [4], **Studio Ninja** [5] and **Táve** [6] -focusing on the features that exist in those applications . This comparison is based on the following criteria.

- Service offering – types of photography services provided.
- Technology and Online presence – Use of
- Pricing and packages – affordable and flexible packages
- Customer experience and engagement

Feature	Lavendra	ShootProof	Pixieset	Studio Ninja	Tave
Rental management	✓	✗	✗	✗	✗
Inquiry management	✓	✗	✗	✓	✓
Package management	✓	✗	✓	✓	✓
Blog and review management	✓	✗	✓	✗	✗
Add to cart function	✓	✗	✓	✗	✗
Delivery system	✓	✗	✗	✗	✗
Online booking system	✓	✓	✓	✓	✓
Workflow automation	✓	✗	✗	✓	✓
Client communication	✓	✓	✓	✓	✓
Secure payment system	✓	✓	✓	✓	✓
Notice management	✓	✗	✗	✗	✗

According to the above table , it shows how Lavendra Photography Booking System stands out from other related webapps. Lavendra Photography Booking System includes features that are not common in the above mentioned webapps which make it unique from the rest of the apps such as,

- Rental management – unlike other apps Lavendra provides the ability to rent photography items.
- Inquiry management – Handle client inquiries for better communication and fast response time .
- Notice management - Provides an organized system for sending notices/ notifications to the users efficiently.
- Add to cart function – simplify the booking process by making it easy to add or remove from cart.
- Delivery management – a proper delivery system to manage delivery locations .

While existing photography management platforms provide valuable tools for photographers, the most of them function only as standalones and lack integrated rental management, inquiry handling, notice management, and an add-to-cart function.

Lavendra is an all-in-one platform providing complete business solutions for photographers, with a strong emphasis on automation and efficiency of business processes, most of which traditional systems do not provide.

## 6. Methodology

### **Agile Software Engineering Methodology**

We have chosen the Agile methodology [7] for the development of our Photography management system due to its flexibility, iterative development, and ability to quickly adapt to customer requirements. Since this web application requires continuous updates, feature enhancements, and customer interactions, Agile allows us to deliver functionalities incrementally while ensuring customer feedback is incorporated.

#### **Agile Key Values and Justification**

1. Individuals and interactions over processes and tools –  
We need continuous collaboration with our client to ensure that the system meets their workflow needs. Agile allows frequent discussions, sprint reviews, and direct feedback, ensuring that every feature is designed as per real-world requirements.
2. Working software over comprehensive documentation –  
Instead of spending excessive time on documentation, we can focus on rapidly building and testing the main features of the web application. This ensures that client can start using essential functionalities early in the development cycle.
3. Customer collaboration over contract negotiation –  
We need to work closely with the client to understand their actual requirements, instead of strictly following a pre-defined contract. Agile allows us to continuously refine and adjust the system based on real-time feedback from the client. This ensures that the final product aligns perfectly with their specific needs.
4. Responding to change over following a plan –  
The client's requirements may change while developing the system. So, instead of rigidly following an initial plan we remain adaptable, making iterative changes to accommodate these new requests. This ensures that the system stays relevant and useful.

## Reasons for choosing Agile methodology

- Quicker product delivery

Agile allows to deliver the working product in incremental cycles called sprints, so that client can have early access to the software and can perform implemented functionalities in usable product.

- Flexibility and adaptability

Client's requirements can be changed frequently throughout the project. Agile encourages responding to changes of requirements. So, this adaptability ensures that the product remains according to the customer's needs, even if requirements change during development.

- Improved customer satisfaction

In Agile methodology, customer interaction is very high. Because of that, customers can frequently provide their feedback throughout the software development process. It ensures that the product is aligned with the customer's needs, leading to highest satisfaction with the final product.

- Better collaboration and communication

Agile emphasizes better communication and collaboration among team members, stakeholders, and customers through daily standups and sprint reviews. This provides the ability to resolve issues quickly and share ideas among team members.

- Continuous improvement

In Agile, teams assess their performance and identify areas for improvement. This helps to continuously refine processes and practices, improving team productivity over time.

- Increased transparency

By providing frequent updates, Agile ensures that stakeholders are always informed and can track project progress in real time. This minimizes misunderstandings and builds trust.

## **Methods**

### **Requirement engineering methods**

- Interviews

Interviews are one of the most widely used techniques to gather detailed information about the requirements of stakeholders for a software system. We use interviews as a method to gather the requirements because it is very easy to understand client's requirements by having direct interviews with them.

- User stories

A user story [8] is an informal, natural language description of features of a software system. We use user stories to gather and analyze the requirements as it is very simple, and we can understand specific requirements for different users of the system.

- Use case diagram

Use case diagram can be used to model the requirements. It provides clear, visual representation of functional requirements. So, we use this diagram to get a clear idea about the system.

- Use case scenarios

Use case scenarios describe how users will interact with the system to achieve specific goals. By using case scenarios, we can understand what the system should do from the user's perspective.

### **Design methods**

- Wireframes

We use wireframes to plan the basic structure of the user interface. They show the basic layout, structure, and functionality of a web page, without detailed design elements such as colors, images, and fonts.

- UI designing

By designing user interfaces using tools like Figma, we can build interfaces focusing on appearance of the user interfaces. It provides a way to organize elements like buttons, images, and text. Also, we can choose suitable fonts, text styles, and colors.

- UML diagrams

We use UML diagrams such as sequence diagram, class diagram, use case diagram, activity diagram to visualize the system structure and identify interactions and behaviors of the system.

## **Testing methods**

- Unit testing

We use unit testing as a testing method as we can test individual functions of the system to ensure they work as expected. So that, we can find issues at early stage.

- Integration testing

In integration testing, we can combine individual components and test whether they work together as expected.

- User acceptance testing

We use this to verify that the system meets the requirements and expectations of the end users. This leads to higher customer satisfaction.

## **Integration methods**

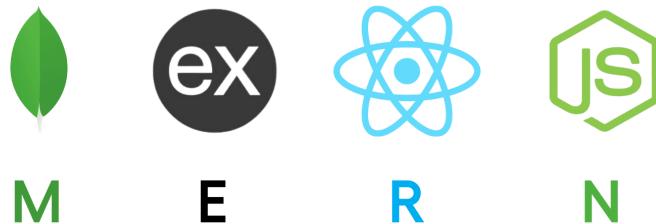
- Continuous integration

We use continuous integration method as an integration method. By using this method, we can integrate our code into a shared repository multiple times a day. It allows us to identify issues quickly and provides the ability to get frequent updates.

## Tools and Technologies

### MERN stack

We use MERN stack to develop our web application. It is a collection of JavaScript based technologies. It consists of MongoDB, Express, React and Node.js.



- MongoDB

MongoDB [9] is a document-oriented and NoSQL database which is used to store large amounts of data. We chose MongoDB to handle our database because it provides high availability, scalability, and flexibility.

- Express.js

Express [10] is a minimal, flexible Node.js web application framework that simplifies the development of server-side applications, handling routing, middleware, and HTTP requests. We use Express.js for backend development as it provides easy-to-use tools.

- React.js

React [11] is a JavaScript based library used to develop user interfaces. We use React.js to develop frontend as React's component-based architecture allows us to create reusable elements in our web application efficiently.

- Node.js

Node.js [12] is an open-source and cross-platform JavaScript runtime environment. It provides the ability to run JavaScript code on the server side. We use Node.js to develop backend as it offers high performance and scalability for handling concurrent requests efficiently.

## **Visual Studio Code**



We use Visual Studio Code [13] as the code editor. It is a free, open-source code editor with powerful developer tooling like IntelliSense code completion and debugging. Also, it supports version controlling.

## **GitHub**



GitHub [14] is a web-based platform that provides tools for version control, collaboration, and project management. We use GitHub for version controlling because it enables us to work together on our project from anywhere.

Some other tools we use for our project are given below.

## **Trello**



Trello [15] is a project management tool that allows users to streamline their projects. It helps us to collaborate, organize, plan on our project. Also, this provides an easy way to track tasks. Because of these features we can manage our project in an organized way.

## **Postman**



Postman [16] is a popular API development tool used for building, testing, and managing APIs. We use this because it allows for easy testing of APIs by sending requests.

## Figma



Figma is a powerful and flexible design tool, which we can create user interfaces for web applications. We use this for UI designing of the project as it is easy to use.

## Draw.io



Draw.io [17] is a free and open-source diagramming tool that allows users to create a wide variety of diagrams such as flow charts, UML diagrams, mind maps, and organizational charts. We chose this because it allows us a user-friendly interface and allows team members to collaborate on diagrams in real-time.

## **Work breakdown structure**

<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>
1. Planning and Analysis	1.1 Requirement Gathering	1.1.1 Identify user needs and system scope 1.1.2 Conduct interviews with client
	1.2 Requirement Analysis	1.2.1 Define key functionalities 1.2.2 Create case scenarios and UML diagrams.
	1.3 Project Proposal	1.3.1 Document system requirements
2. System Design	2.1 UI/UX Design	2.1.1 Create wireframes & UI structure using Figma. 2.1.2 Design color themes and layouts
	2.2 System Architecture design	2.2.1 Define database schema
3. Web application development	3.1 Backend Development	3.1.1 Develop User Management
		3.1.2 Develop Admin Dashboard
		3.1.3 Develop Package Management
		3.1.4 Develop Gallery Management
		3.1.5 Develop Payment Management
		3.1.6 Develop Inquiry Management
		3.1.7 Develop Rental Management
		3.1.8 Develop Notice Management
		3.1.9 Develop Review Management
		3.1.10 Develop Blog Management

		3.1.11 Develop Delivery Management
	3.2 Database Setup	3.2.1 Configure MongoDB
	3.3 API Development	3.3.1 Develop APIs for backend functions.
3.4 Frontend Development		3.4.1 Implement User Management
		3.4.2 Implement Admin Dashboard
		3.4.3 Implement Package Management
		3.4.4 Implement Gallery Management
		3.4.5 Implement Payment Management
		3.4.6 Implement Inquiry Management
		3.4.7 Implement Rental Management
		3.4.8 Implement Notice Management
		3.4.9 Implement Review Management
		3.4.10 Implement Blog Management
		3.4.11 Implement Delivery Management
4. Testing and debugging	4.1 API Testing	4.1.1 Validate backend functions using postman.
	4.2 Testing the system	4.2.1 Test each system module for bugs
5. Deployment and finalization	5.1 Finalize the project	5.1.1 Merge final code
	5.2 Deployment	5.2.1 Deploy backend and frontend
	5.3 Handover to client	5.3.1 Deliver the fully functional web application to the client.
		5.3.2 Ensure the client can access and use the system without issues.

## 7. Evaluation Method

Using evaluation methods in Lavendra Photography booking system is essential because it ensures system functionality , improve user experience , enhances system performance and support decision making and continuous improvements. So, the following methods will be used in Lavendra to evaluate the system performance.

- **Functional Testing**
  - Verify that core functionalities work as expected
  - test different user roles.
- **Usability Testing**
  - Conduct user testing with real users
  - measure completion time for key features
  - users describe their thoughts while using the system .
- **Performance Testing**
  - Check system speed and responsiveness under normal and peak loads
- **Security Testing**
  - Ensure secure payment transactions and data encryption.
- **Compatibility Testing**
  - Test on multiple browsers (chrome, Firefox, edge)
- **User feedback and surveys**
  - Collect feedback through questionnaire and interviews
  - use ratings to measure client satisfaction.
- **Real-world Pilot Testing**
  - Deploy the system to small group of real users and monitor how they interact with it.
  - make improvements before final launching.

According to the results of the above evaluations, necessary improvements and optimizations will be made before final deployment. That will ensure that the system operates efficiently and effectively.

## References

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- [16] [Online]. Available: <https://www.postman.com/product/what-is-postman/>.
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## Appendices

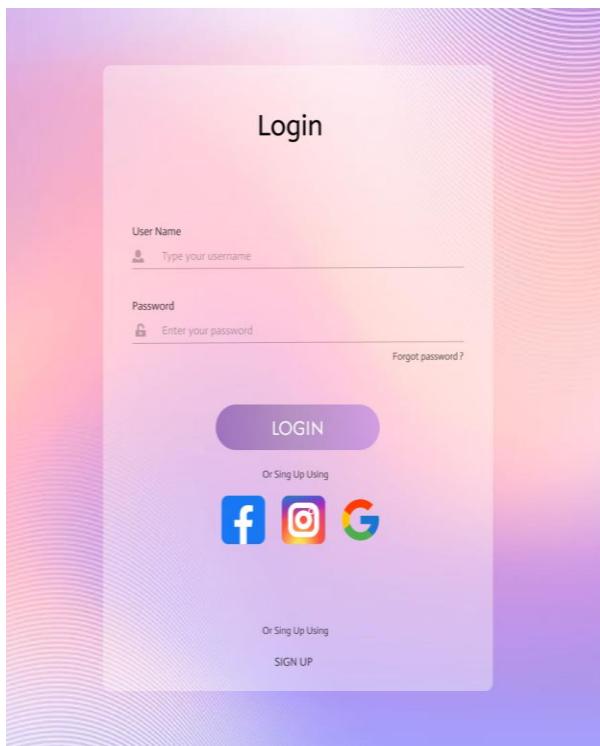
### *Appendix A - Logo of Lavendra Wedding Films*



### *Appendix B - Facebook Page of Lavendra Wedding Films*

A screenshot of a Facebook page for "Lavendra Wedding Films". The page header features a purple background with a collage of wedding photos at the top. Below the collage is the Lavendra logo and the tagline "WHERE DREAMS BECOME MEMORIES AND MEMORIES BECOME TIMELESS TREASURES...". The main content area shows the page's name, "Lavendra Wedding Films", in a large, bold, black font, followed by the text "11K likes • 12K followers". To the left of the main content, there is a circular profile picture of the Lavendra logo.

## **Appendix C - User Management User Interfaces**





**Thisuri Perera**  
thisuriperera1990@gmail.com

### Profile Settings

Name	Surname
<input type="text"/>	<input type="text"/>
Mobile Number	State
<input type="text"/>	<input type="text"/>
Address Line 1	Area
<input type="text"/>	<input type="text"/>
Address Line 2	Country
<input type="text"/>	<input type="text"/>
Postcode	State/Region
<input type="text"/>	<input type="text"/>
Email	
<input type="text"/>	

**Save Profile**

LOGO
About Us  
Contact Us  
Terms & Conditions  
FAQs
Gallery  
Blog  
Reviews  
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+94 77 123 4567

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### Appendix D - Admin Dashboard User Interface

LOGO
Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

- Dashboard
- Inventory
- Orders
- Customers

Orders  
2,328

Inventory  
100

Customers  
100

Revenue  
1,942

Recent Orders

Title	Quantity	Price

Order Revenue

Order Revenue	Count
0	~800
1	~600
2	~850
3	~750
4	~550
5	~450
6	~350
7	~600
8	~500
9	~400

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## Appendix E - Payment Management User Interfaces

The screenshot shows a payment management interface. At the top, there is a navigation bar with a logo, Home, Gallery, Rental Service, Blog, Payment (which is highlighted), Contact us, Cart, and Login.

The main content area displays a summary box with the word "Total" and the amount "\$147,45". Below this is a redacted card number placeholder. To the right is a payment form with fields for Email, Card information (with sample numbers and logos for Visa, Mastercard, American Express, and Discover), Cardholder name, Country or region (United States), and ZIP code. A "Pay" button is at the bottom of the form, accompanied by a small note about agreeing to terms and privacy policy.

At the bottom, there is a footer with a logo, links to About Us, Contact Us, Terms & Conditions, FAQs, and other site sections like Gallery, Blog, Reviews, and Rental Service. It also includes contact information: 20, Main Road, Colombo, lavenderphotography@gmail.com, and +94 77 123 4567.

This screenshot shows a payment confirmation message overlaid on a background image of a keyboard and a smartphone. The message features a large green checkmark icon and the text "Your payment was successful". Below it, a smaller message reads: "Thank you for your payment. We will be in contact with more details shortly".

The layout is identical to the one above it, with a navigation bar at the top and a footer at the bottom containing links to various site sections and contact information.

LOGO
Home
Gallery
Rental Service
Blog
Payment
Contact us
Cart
Login

### Payment Details

Payment ID	Order ID	First name	Last name	Payment method	Payment date	Status
001	1	Anne	Perera	Credit card	2/1/2024	Successful
002	2	Nimal	Gamage	Credit card	3/5/2024	pending
003	3	Saman	Fernando	PayPal	10/3/2024	failed

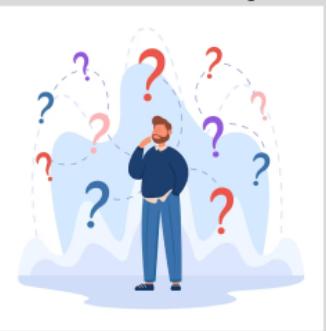
Update

LOGO
About Us
Gallery
Contact Us
Blog
Reviews
Terms & Conditions
Rental Service
FAQs
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+94 77 123 4567

## ***Appendix F - Inquiry Management User Interfaces***

LOGO
Home
Gallery
Rental Service
Blog
Payment
Contact us
Cart
Login

Reach out to us for inquiries !



Name
Phone number

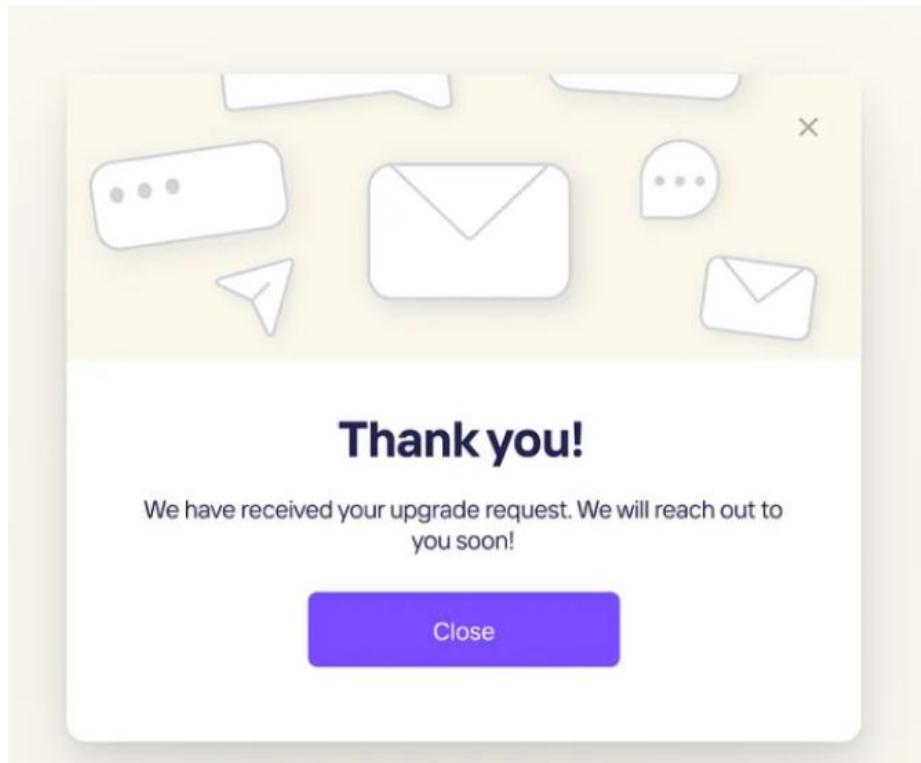
Email

Inquiry type
Subject

Message

Submit

LOGO
About Us
Gallery
Contact Us
Blog
Reviews
Terms & Conditions
Rental Service
FAQs
20, Main Road, Colombo.
lavendraphotography@gmail.com
+94 77 123 4567



LOGO

Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

### Inquiry Details

InqID	Name	email	Phone	Inquiry type	Subject	Message	Status
IN01	A.R.Perera	12@hjc.gc	0912345578	General	About packages	How to add further requirements for a package... ...	Pending
IN02	B.W.Fernando	F2@yf.nv	0389123914	Support	Issue in downloading	Can't download my photos from drive...	Resolved
IN03	P.R.Gamage	9u@hnj.oij	0213844529	Other	About Hiring	We want to hire you for our shoot.... ...	Resolved

Update    Delete

Update    Delete

Update    Delete

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FAQs

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Blog  
Reviews  
Rental Service

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## Appendix G - Rental Services Management User Interfaces

LOGO

Home Gallery Rental Service Blog Inquiry Notice Admin Login

Item Name

Image  
 No file Choose

Price Per Day

Description



LOGO

About Us Contact Us Terms & Conditions FAQs

Gallery Blog Reviews Rental Service

Get in Touch

20, Main Road, Colombo,  
lavendraphotography@gmail.com  
+94 77 123 4567

LOGO

Home Gallery Rental Service Blog Payment Contact us Cart Log in

Rental Item



**Lens**  
Various lenses for different photography needs.  
Price :1000.00 (Per day)

**Flash**  
External flash for better lighting  
Price :1500.00 (Per day)

**Tripod**  
Stable tripod for steady shots  
Price :1700.00 (Per day)

LOGO

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Gallery Blog Reviews Rental Service

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[Rental Service](#)
[Blog](#)
[Payment](#)
[Contact us](#)
Cart
Log in



**Item Info**

DSL Camera  
Rs.1000,00 per day

**Select Time Slots**

Start Date

End Date

Total days = 2  
Total Price = 20000

[Pay Now](#)

LOGO

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[Contact Us](#)
[Terms & Conditions](#)
[FAQs](#)

[Gallery](#)
[Blog](#)
[Reviews](#)
[Rental Service](#)

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[Gallery](#)
[Rental Service](#)
[Blog](#)
[Inquiry](#)
[Notice](#)
Admin Login

### Rental Item Details

Rental Item ID	Title	Image	Description	Rent Price (perDay)	
R001	Lens		Various lenses for different photography needs.	Rs.1000.00	<a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Edit</a> <a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Delete</a>
					<a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Edit</a> <a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Delete</a>
					<a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Edit</a> <a href="#" style="border: 1px solid black; border-radius: 5px; padding: 2px 5px;">Delete</a>

LOGO

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[FAQs](#)

[Gallery](#)
[Blog](#)
[Reviews](#)
[Rental Service](#)

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## Appendix H - Notice Management User Interfaces

LOGO

Home   Gallery   Rental Service   Blog   Inquiry   Notice   Admin Login

### Add new Notices

Date

Description



LOGO

About Us   Contact Us   Terms & Conditions   FAQs

Gallery   Blog   Reviews   Rental Service

Get in Touch  
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lavendraphotography@gmail.com  
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LOGO

Home   Gallery   Rental Service   Blog   Payment   Contact us   Cart   Log in

### Notices

4 March 15.35pm   New camera models available for rent.

27 Feb 08.15am   "Exclusive Discount for Students (Next Week) – Rent Lenses at Half Price!"

20 Feb 20.35pm   "Scheduled Maintenance on March 10 – System Downtime Expected!"

15 Feb 09.00am   "Latest Professional Lighting Kits Added to Our Inventory!"



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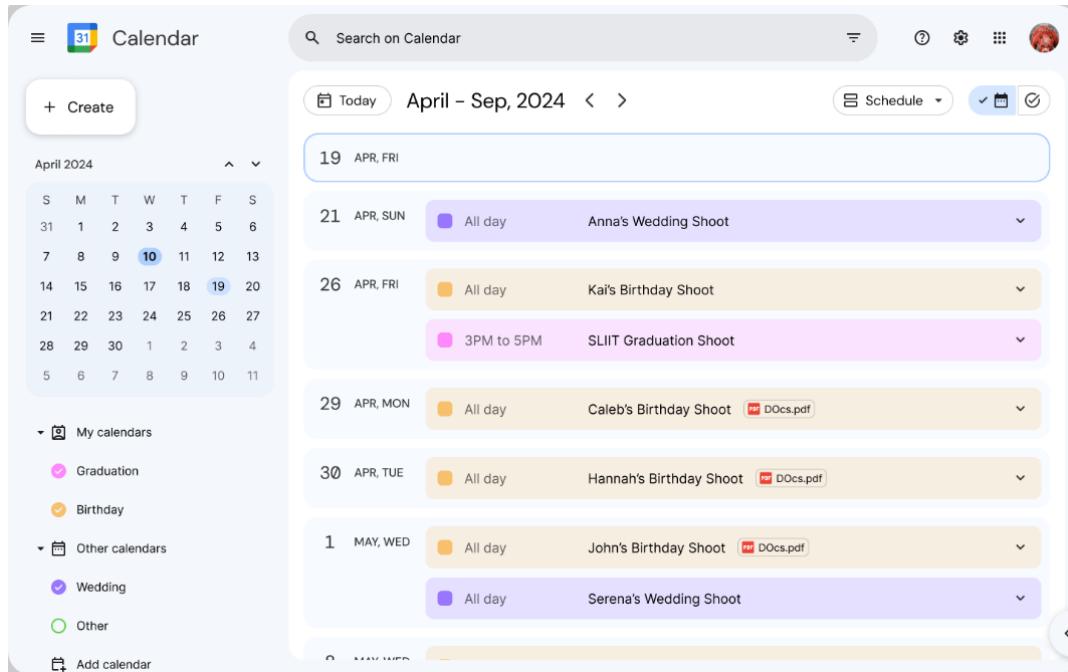
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LOGO		Home	Gallery	Rental Service	Blog	Inquiry	Notice	Admin Login																					
<b>Notices Details</b>																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Notice ID</th> <th>Time</th> <th>Description</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>N001</td> <td>27 Feb 08.15am</td> <td>"Exclusive Discount for Students (Next Week) – Rent Lenses at Half Price!"</td> <td><b>Edit</b></td> <td><b>Delete</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td><b>Edit</b></td> <td><b>Delete</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td><b>Edit</b></td> <td><b>Delete</b></td> </tr> </tbody> </table>										Notice ID	Time	Description			N001	27 Feb 08.15am	"Exclusive Discount for Students (Next Week) – Rent Lenses at Half Price!"	<b>Edit</b>	<b>Delete</b>				<b>Edit</b>	<b>Delete</b>				<b>Edit</b>	<b>Delete</b>
Notice ID	Time	Description																											
N001	27 Feb 08.15am	"Exclusive Discount for Students (Next Week) – Rent Lenses at Half Price!"	<b>Edit</b>	<b>Delete</b>																									
			<b>Edit</b>	<b>Delete</b>																									
			<b>Edit</b>	<b>Delete</b>																									

LOGO		About Us	Gallery	Get in Touch		
		Contact Us	Blog	20, Main Road, Colombo.		
		Terms & Conditions	Reviews	lavendraphotography@gmail.com		
		FAQs	Rental Service	+94 77 123 4567		

## Appendix I - Package Management User Interfaces

LOGO		Home	Gallery	Rental Service	Blog	Payment	Contact us	Cart	Login
		<div style="border: 1px solid black; padding: 10px; margin-top: 20px;"> <h3 style="margin: 0;">Book Your Photography Session</h3> <p>Select Package:</p> <div style="border: 1px solid #ccc; padding: 2px; width: fit-content; margin-bottom: 5px;">Basic Package</div> <p>Select Date and Time:</p> <input style="width: 100%; height: 25px; border: 1px solid #ccc; padding: 2px; margin-bottom: 5px; font-size: 0.8em;" type="text"/> <div style="background-color: blue; color: white; padding: 2px 10px; border-radius: 5px; font-weight: bold; text-decoration: none; cursor: pointer; width: fit-content;">Book Now</div> </div>							
<p>LOGO</p> <ul style="list-style-type: none"> <li><a href="#">About Us</a></li> <li><a href="#">Contact Us</a></li> <li><a href="#">Terms &amp; Conditions</a></li> <li><a href="#">FAQs</a></li> </ul>		<ul style="list-style-type: none"> <li><a href="#">Gallery</a></li> <li><a href="#">Blog</a></li> <li><a href="#">Reviews</a></li> <li><a href="#">Rental Service</a></li> </ul>		<p><b>Get in Touch</b></p> <p>20, Main Road, Colombo. lavendraphotography@gmail.com +94 77 123 4567</p>					
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**LOGO**

Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

Available Packages

**Birthday Bliss Package**



**Rs.2000**

1 Hour Photoshoot  
1 location  
50 Edited photos

Photographer - Sandun Perera

**Unavailable**

**Eternal Love Bundle**



**Rs.50 000**

1 day Photoshoot  
5 locations  
1000 Edited photos

Photographer - Ann Perera

**Add to Cart**

**Graduation glory Package**



**Rs.5 000**

1 Hour Photoshoot  
1 location  
50 Edited photos

Photographer - Sandun Perera

**Add to Cart**

**LOGO**

<a href="#">About Us</a> <a href="#">Contact Us</a> <a href="#">Terms &amp; Conditions</a> <a href="#">FAQs</a>	<a href="#">Gallery</a> <a href="#">Blog</a> <a href="#">Reviews</a> <a href="#">Rental Service</a>	<p><b>Get in Touch</b></p> <p>20, Main Road, Colombo.  <a href="mailto:lavendraphotography@gmail.com">lavendraphotography@gmail.com</a>  +94 77 123 4567</p>
--	--	--

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SHOPPING CART			
Product	Quantity	sub total	
 package 1 rs2000	(-) 1 (+)	rs2000	
 package 2 rs5000	(-) 1 (+)	rs5000	
Total			rs7000
<a href="#" style="background-color: blue; color: white; padding: 10px 20px; border-radius: 10px; text-decoration: none;">Proceed to checkout →</a>			

## Appendix J - Digital Gallery Management User Interfaces

LOGO
[Home](#)
[\*\*Gallery\*\*](#)
[Rental Service](#)
[Blog](#)
[Payment](#)
[Contact us](#)
Cart
Login



 Event Name

 Photos

 Date

 Description

[Add to Gallery →](#)

LOGO

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**LOGO**

Home Gallery Rental Service Blog Inquiry Notice Admin Login

All Birthday Wedding Graduation

**Wedding**

**Birthday**

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Gallery Blog Reviews Rental Service

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**Media Library**

Home Assets Folders Collections Moderation

Search Media Library

Type to filter

ann's wedding

▼ Assets (2)

Display name	Containing folder	Asset type	Format	Size	Dimensions	Duration	Delivery	Access
 hnodd9a4iahqyziprof	ann's wedding	Image	JPG	8.74 KB	275 × 183		<input type="button" value="Upload"/>	<input type="button" value="Put"/>
 ro808w5mrnl3c5a48rfk	ann's wedding	Image	JPG	198.96 KB	1024 × 6...		<input type="button" value="Upload"/>	<input type="button" value="Put"/>

## Appendix K - Delivery Management User Interfaces

LOGO

Home    Gallery    Rental Service    Blog    Payment    Contact us    [Cart](#)    [Login](#)

**Enter Your Delivery Details here**



Order Id

Name

Phone

Address

Date  
 [Calendar](#)

**Submit**

LOGO

About Us    Contact Us    Terms & Conditions    FAQs

Gallery    Blog    Reviews    Rental Service

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**Delivery Details**

Order Id: Or001  
Name: Kamal Ratnayake  
Phone: 0771234567  
Address: Galle, Sri Lanka.  
Status: Delivered

**Update Status**

Order Id: Or002  
Name: Saman Fernando  
Phone: 0711223344  
Address: Colombo, Sri Lanka.  
Status: Out for Delivery

**Update Status**

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## Appendix L - Review Management User Interfaces

LOGO

Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

### Leave a Review

Name

Email

Rating

Review

**Submit**

---

LOGO

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LOGO

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### See What Our Customers Say About Us

**Sanath Perera**

This website made managing my photo session so much easier...

**Kamal Liyanage**

Very easy to use. I can manage bookings effortlessly...

**Namalee Dias**

A simple system with useful features...

**Sunil Gamage**

This website made managing my photo session so much easier...

**Ramani de Silva**

A simple system with useful features...

**Anusha Perera**

Very easy to use. I can manage bookings effortlessly...

---

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Gallery    Blog    Reviews    Rental Service

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**Review Details**

Review ID	Customer Name	Email	Rating	Review Text	Action
R001	Sanath Perera	sanath@gmail.com	4	This website made managing my photo session so much easier...	<a href="#">Edit</a> <a href="#">Delete</a>
R002	Kamal Liyanage	kamal@gmail.com	5	Very easy to use. I can manage bookings effortlessly...	<a href="#">Edit</a> <a href="#">Delete</a>
R003	Namalee Dias	namalee@gmail.com	3	A simple system with useful features...	<a href="#">Edit</a> <a href="#">Delete</a>

**LOGO**

About Us  
Contact Us  
Terms & Conditions  
FAQs

Gallery  
Blog  
Reviews  
Rental Service

**Get in Touch**

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## Appendix M - Blog Management User Interfaces

**Add new Blog**

Title

Image  
 No file chosen

Published Date

Description

**Submit**

**LOGO**

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Gallery  
Blog  
Reviews  
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LOGO

Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

## Blog



Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et

[See More](#)



Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et

[See More](#)



Title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et

[See More](#)

---

LOGO

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LOGO

Home    Gallery    Rental Service    Blog    Payment    Contact us    Cart    Login

## Blog Details

Blog ID	Title	Image	Description	Published Date	Action
B001	Shehani&Nuwan's Magical Beach Wedding		A breathtaking beach wedding at Mirissa....	18/12/2024	<a href="#">Edit</a> <a href="#">Delete</a>
B002	Annual Get Together of Sujatha Vidyalaya Matara		A heartwarming reunion of alumni....	27/12/2024	<a href="#">Edit</a> <a href="#">Delete</a>
B003	Aanya & Roshan's Baby Gender Reveal Party		A joyful celebration filled with excitement....	14/01/2025	<a href="#">Edit</a> <a href="#">Delete</a>

---

LOGO

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