Wedding Photography Portfolio

Software Requirements Specification

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Prepared for

Continuous Assessment 3

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Revision History

Date	Description	Author	Comments
30-10-24	Version 1	Pavansai	Backend not done
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1. Introduction

1.1 Purpose

The purpose of this document is to define the requirements for the development of a wedding photography portfolio website. The primary objective of the website is to provide a visually appealing, user-friendly platform where the photographer can showcase their wedding photography portfolio, attract potential clients, and offer a glimpse into their style and expertise. This document outlines the functional, non-functional, and technical requirements necessary to achieve these objectives.

1.2 Scope

This website will serve as an online portfolio for a professional wedding photographer, highlighting featured wedding galleries, testimonials, and contact options. Key functionalities will include image galleries, client testimonials, an about section, and a contact form. The website will be responsive across devices and optimized for fast loading and user engagement

1.3 Definitions, Acronyms, and Abbreviations

CMS: Content Management System. A software platform used to manage and update website content without requiring in-depth programming knowledge.
Frontend: The part of the website that users interact with directly. Includes elements like the gallery, contact form, and testimonials.
Backend: The part of the website where the Admin can manage images, testimonials, and content.
Gallery: A collection of images from various weddings or events displayed on the website.

Responsive Design: A web design approach that ensures the website adjusts its layout and elements to fit screens of all sizes, from desktops to mobile devices.

1.4 References

Photographer's Guide to Portfolio Design
A guide on best practices for creating an effective and visually appealing photography portfolio website.
SEO Best Practices for Photography Websites
Resource on optimizing photography portfolio websites for search engines, enabling better visibility and reach for the photographer.
Client Requirement Document
The initial requirements document provided by the photographer, detailing specific features, design preferences, and business goals.
An Existing Wedding Photography Portfolio Website Analysis
A comparative study of similar websites to gather insights into common design features and functionalities that enhance the user experience.

1.5 Overview

The wedding photography portfolio website will cater to potential clients looking for a wedding photographer. It will be designed to showcase high-quality images in an organized format and offer insight into the photographer's style and approach. This document will specify the user requirements, system requirements, design constraints, and development plan to create an efficient, reliable, and aesthetically pleasing portfolio website.

2. General Description

2.1 Product Perspective

This wedding photography portfolio website serves as a standalone platform for showcasing the photographer's work, providing clients an organized, visually appealing way to explore wedding galleries, testimonials, and contact options. The site will be accessible across all device types.

2.2 Product Functions

Image Gallery: Displays categorized wedding photos.
About Section: Introduces the photographer and their style.
Client Testimonials: Shows feedback from previous clients.
Contact Form: Allows clients to inquire or book.

2.3 User Characteristics

Potential Clients: Browse, inquire, and learn about the photographer.
Admin: Manages and updates site content.

2.4 General Constraints

Responsiveness: The website must function on various screen sizes (desktop, tablet, and mobile) and adapt layout accordingly.
Loading Speed: The site must load quickly, especially image-heavy galleries, to enhance user experience and meet SEO standards.
Accessibility: The website should comply with WCAG 2.1 standards to be accessible for users with disabilities.
Browser Compatibility: The website should be compatible with all major browsers, including Chrome, Safari, Firefox, and Edge.

2.5 Assumptions and Dependencies

High-quality hosting and CMS support for easy updates.
Reliable internet access to ensure smooth performance..

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

UI1: The website should feature a clean, visually appealing layout to showcase the photography portfolio, with intuitive navigation for easy access to all sections.
UI2: The homepage should include links to the main sections: Image Gallery, About, Testimonials, and Contact.
UI3: The Contact Form interface should include labeled fields for name, email, date, and message with real-time validation and error messages.
UI4: The site must be responsive and adapt to different screen sizes (desktop, tablet, and mobile) for optimal viewing.

3.1.2 Hardware Interfaces

HI1: The website should be accessible from standard consumer devices, including desktops, laptops, tablets, and smartphones.

3.1.3 Software Interfaces

SI1: The website will interact with a Content Management System (CMS) for managing images, testimonials, and blog posts.
SI2: The website will integrate with an email service to handle contact form submissions.
SI3: The site should be compatible with major web browsers (Chrome, Firefox, Safari, Edge).

3.1.4 Communications Interfaces

CI1: The website should support HTTPS for secure communication between users and the server.
CI2: Contact form submissions should be transmitted securely and forwarded to the Admin's designated email.

3.2 Functional Requirements

This section describes specific features of the software project. If desired, some requirements may be specified in the use-case format and listed in the Use Cases Section.

3.2.1 Image Gallery

FR1.1: Admin can upload and categorize images into separate albums or galleries.
FR1.2: Users can browse and view images in a full-screen slideshow with navigation options.
FR1.3: The gallery should implement lazy loading to improve performance.

3.2.2 About Section

FR2.1: The Admin can update text and images in the About section.
FR2.2: Users can access the About section from the homepage or as a dedicated page.

3.2.3 Client Testimonials

FR3.1: The Admin can add, edit, or remove testimonials.
FR3.2: Testimonials should be displayed in a visually appealing format, such as a slider or carousel.

3.2.5 Contact Form

FR4.1: The form should allow users to enter their name, email, event date, and a message.
FR4.2: Form submissions should be stored and forwarded to the Admin's email.
FR4.3: Error messages should guide users on required fields and format (e.g., valid email format).

3.5 Non-Functional Requirements

3.5.1 Performance

NFR1: Website should load in under 3 seconds on average, even with high-resolution images.
NFR2: The site should use image optimization techniques to maintain speed.

3.5.2 Reliability

NFR3: The website should maintain an uptime of 99.9% on an annual basis, ensuring availability for potential clients

3.5.3 Availability

NFR4: The website must be accessible 24/7, with hosting solutions that provide redundancy and failover capabilities.

3.5.4 Security

NFR5: The site should use HTTPS for secure communication.
NFR6: Data from the contact form must be validated and sanitized to prevent attacks like SQL injection.

3.5.5 Maintainability

NFR7: The codebase should be modular to allow for future enhancements without extensive rework.

NFR8: The website should support updates without downtime.

3.5.6 Portability

NFR9: The website should be easily transferable between servers if hosting changes are required.

3.7 Design Constraints

DC1: The website design must prioritize visual appeal, showcasing the photographer's work while remaining easy to navigate.
DC2: The layout must be responsive to ensure usability across all devices.

3.9 Other Requirements

OR1: The website should comply with Web Content Accessibility Guidelines (WCAG) 2.1 Level AA.
OR2: Image captions and alt text must be provided for all images to enhance accessibility.

4. Analysis Models

4.1 Data Flow Diagrams (DFD)

4.1.1 Context Diagram (DFD Level 0)

The context diagram provides a high-level view of the system, showing interactions between external entities and the main system components. Here's an overview:

- **External Entities**:
  - **User (Client)**: Interacts with the website to view galleries, testimonials, and contact the photographer.
  - **Admin**: Manages content such as galleries, testimonials, and blog posts.
- **System Processes**:
  - **Image Gallery Management**: Allows the Admin to upload, categorize, and update images.
  - **Content Management**: Enables the Admin to add or edit About content, testimonials, and blog posts.
  - **Contact Management**: Sends inquiries from users to the Admin's email.
- **Data Stores**:
  - **Gallery Images**: Stores images categorized by event or theme.
  - **Testimonials**: Stores client testimonials.
  - **Contact Form Submissions**: Logs contact form entries for reference or backup.

4.1.2 DFD Level 1 – Major Processes

Process 1: Gallery Management

- **Input**: Images uploaded by Admin.
- **Output**: Displayed images in galleries for the User.
- **Description**: The Admin uploads, categorizes, and edits images, which are stored in the "Gallery Images" data store and displayed to users in organized galleries.
-

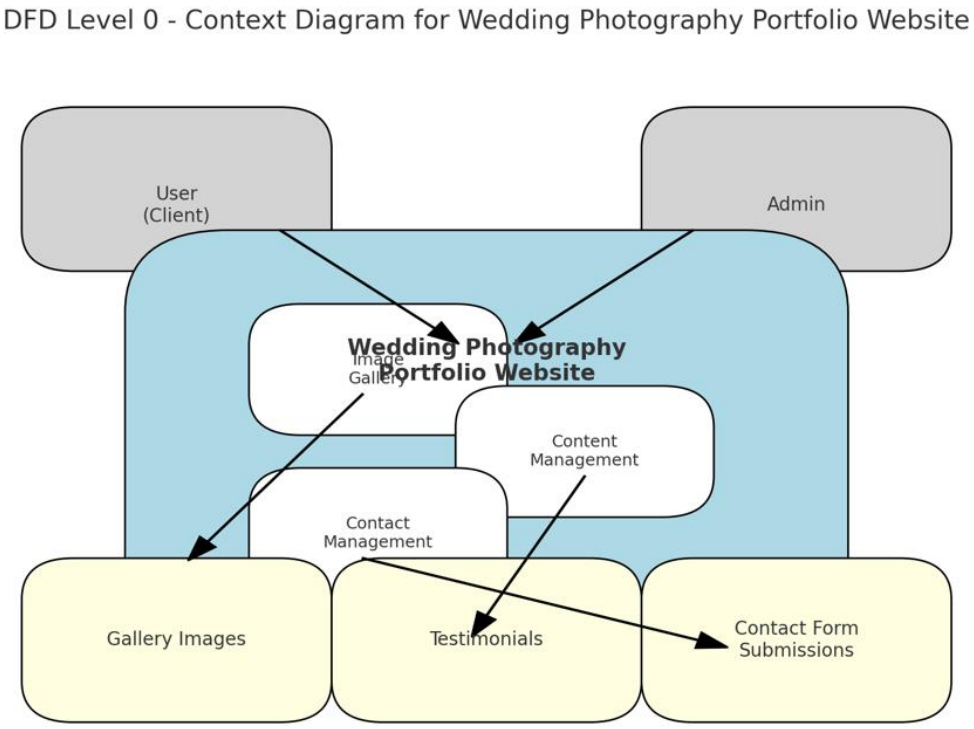
Process 2: Content Management

- **Input**: About information, testimonials, and blog posts.
- **Output**: Updated content displayed to users.
- **Description**: The Admin adds or edits content in About, Testimonials, and Blog sections. Content is stored and retrieved for user viewing.
-

Process 3: Contact Management

- **Input**: User contact form submissions (name, email, date, message).
- **Output**: Email sent to the Admin.
- **Description**: User submits a contact form, and the system validates and forwards the message to the Admin.

DFD Level 0 Example:



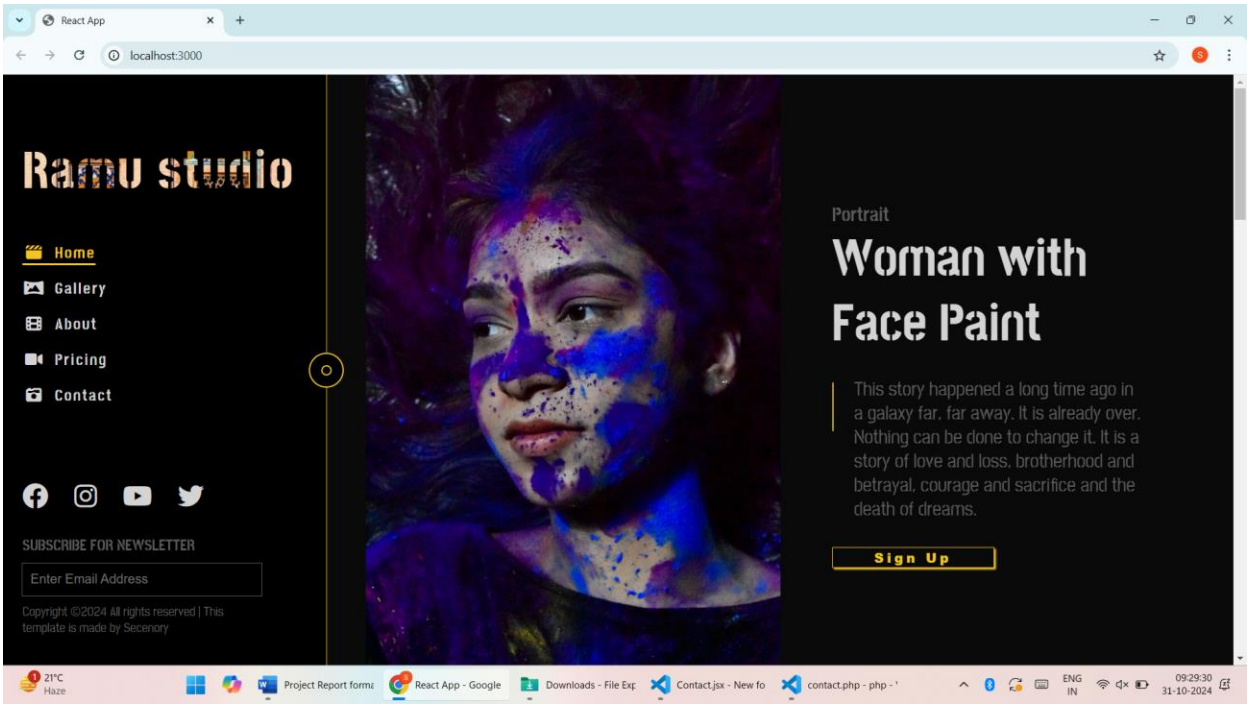
5. GITHUB LINK:

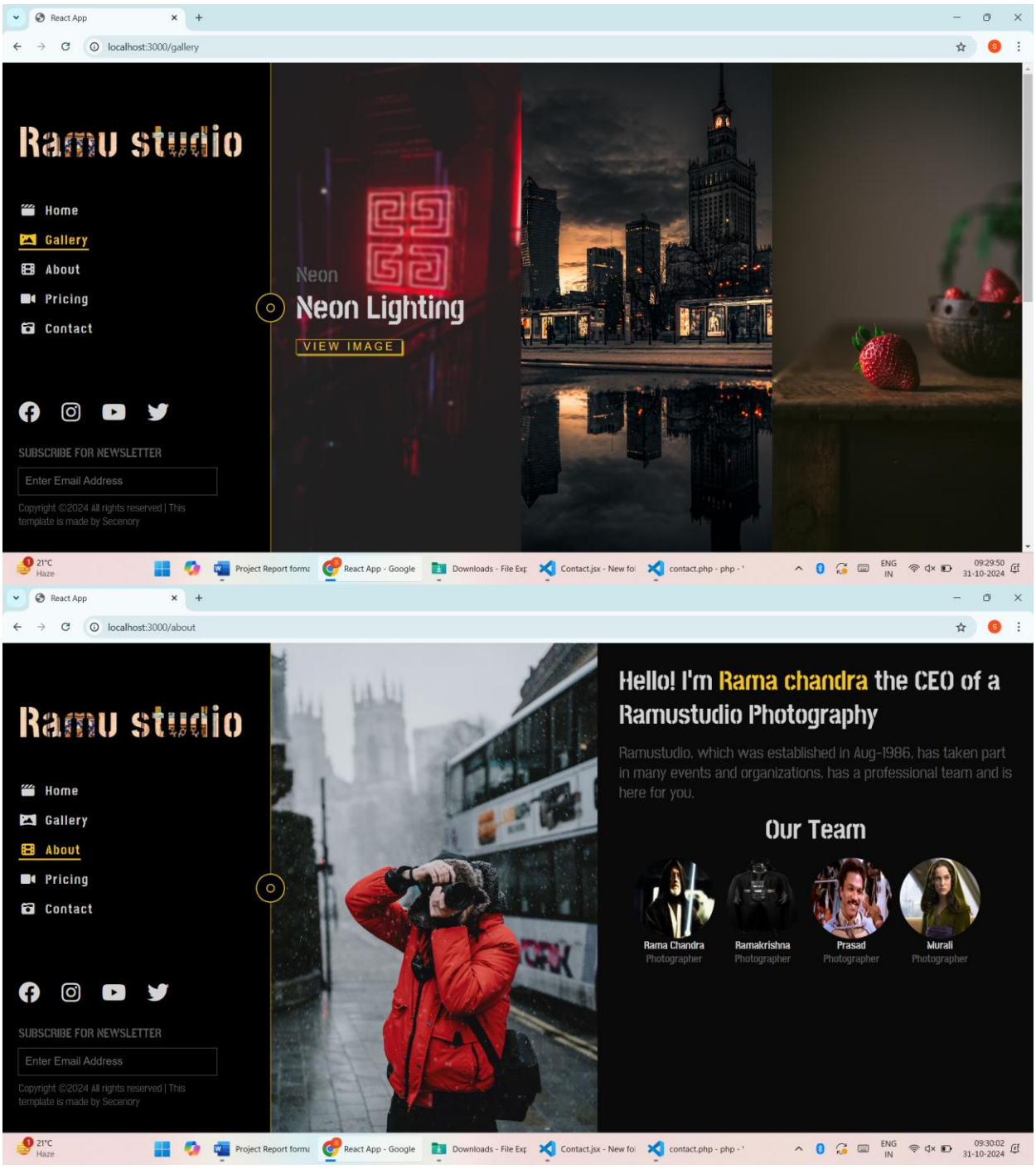
https://github.com/pavansai2205/ReactJs-Photo-Studio-Portfolio.git

6. DEPLOYED LINK:

https://pavansai2205.github.io/ReactJs-Photo-Studio-Portfolio/

7. Screenshot:




React App
localhost:3000/gallery
Ramu studio
Home
Gallery
About
Pricing
Contact
Neon
Neon Lighting
VIEW IMAGE
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Ramustudio, which was established in Aug-1986, has taken part in many events and organizations, has a professional team and is here for you.
Our Team
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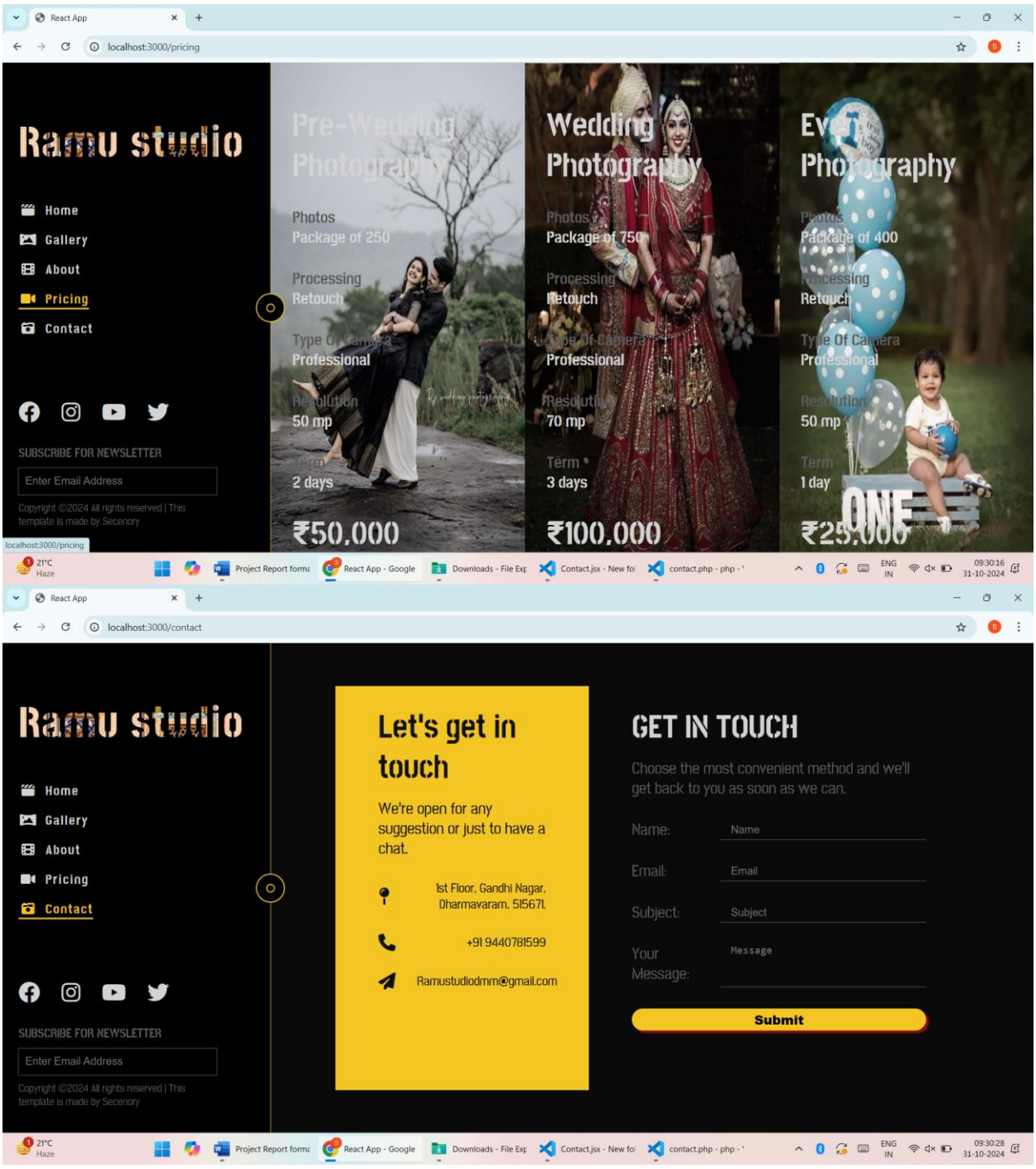
Photographer
Ramakrishna
Photographer
Prasad
Photographer
Murali
Photographer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About
Pricing
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2 days
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Professional
70 mp
Term
3 days
₹100,000
Photography
Photos
Package of 400
Retouch
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ONE
₹25,000
localhost:3000/contact
Let's get in touch
We're open for any suggestion or just to have a chat.
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Ramustudiodmm@gmail.com
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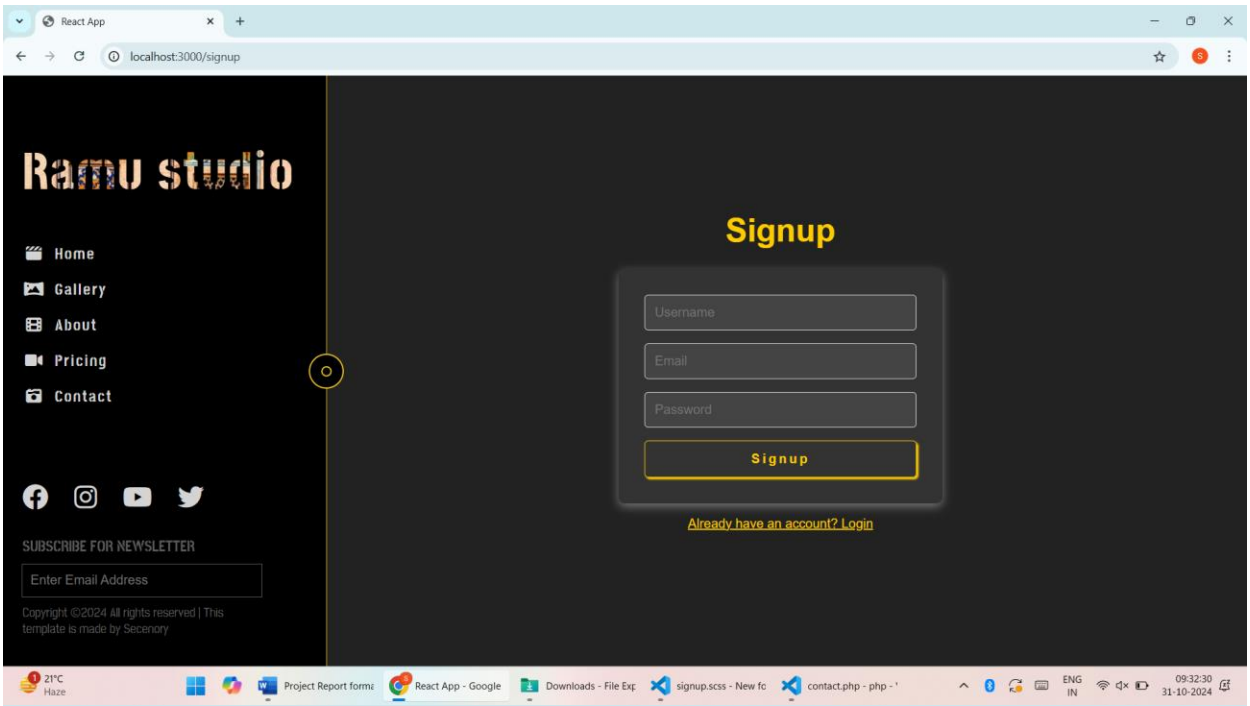
Choose the most convenient method and we'll get back to you as soon as we can.
Name:
Email:
Subject:
Your Message:
Submit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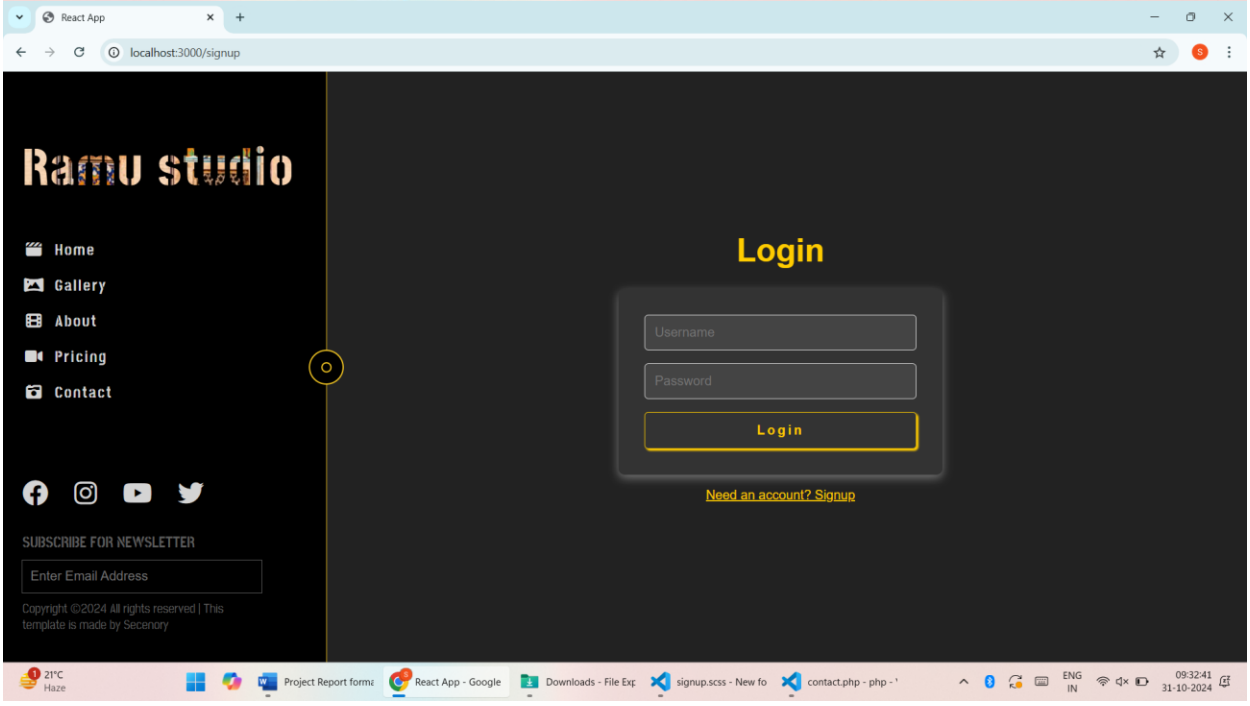
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