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Capture X – Photography Studio Management System

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ABSTRACT: Capture X is a web-based Photography Studio Management System developed to automate and simplify studio operations. It includes three main modules: Admin, Photographer, and Customer. Admins manage photographers, bookings, packages, payments, galleries, and notifications through a centralized dashboard. Photographers handle assigned shoots, gallery updates, and customer communication. Customers can browse packages, book events, pay via UPI/QR code, and track booking status. A key feature is the Booking and Package Management Module, offering Diamond, Gold, and Silver service tiers across event categories such as Wedding, Birthday, Portrait, Corporate, and Maternity. The system also provides real-time notifications to improve coordination, transparency, and overall service efficiency.

I. INTRODUCTION

Capture X Photography Studio Management System is a web-based platform developed to automate and simplify photography studio operations, reducing manual work and improving efficiency. Traditional studio management methods often lead to scheduling conflicts, payment tracking issues, communication delays, and poor record maintenance. To solve these challenges, the system provides a centralized solution with three modules: **Admin, Photographer, and Customer**. The Admin manages photographers, packages, bookings, payments, galleries, and notifications through a centralized dashboard, while Photographers can view assigned shoots, manage schedules and galleries, and communicate with customers. Customers can browse service packages, book events, make secure payments using UPI/QR Code, and track booking status. Developed using **Python Django, HTML, CSS, JavaScript, and SQLite**, the system supports automated booking workflows, package management, and real-time notifications to improve coordination and customer experience. By maintaining centralized records and reducing administrative effort, Capture X enhances scheduling accuracy, transparency, productivity, and overall photography studio management.

II. EXISTING SYSTEM

In many photography studios, booking and client management is still performed manually using phone calls, WhatsApp messages, or basic spreadsheets. This process is time-consuming and may lead to duplicate bookings, uneven photographer workload, scheduling errors, and communication delays. Managing payment records, leave requests, and shoot schedules manually becomes difficult, especially when handling multiple photographers and events simultaneously. Existing systems also lack proper package management and transparent pricing structures, causing confusion for customers during the booking process. High-value events may not always be assigned to the most experienced photographer, affecting the quality of service delivery. During peak seasons or sudden cancellations, updating schedules manually becomes challenging and increases the likelihood of human errors. Therefore, an automated Photography Studio Management System is needed to ensure fair booking distribution, improve transparency, reduce manual effort, and support efficient studio operations.

DISADVANTAGES

- Manual booking management takes more time and effort from administrators.
- There is no proper system for transparent package comparison and pricing.
- Managing payment records, photographer schedules, and client communication manually is difficult.
- Manual scheduling may cause errors, duplicate bookings, and communication delays.

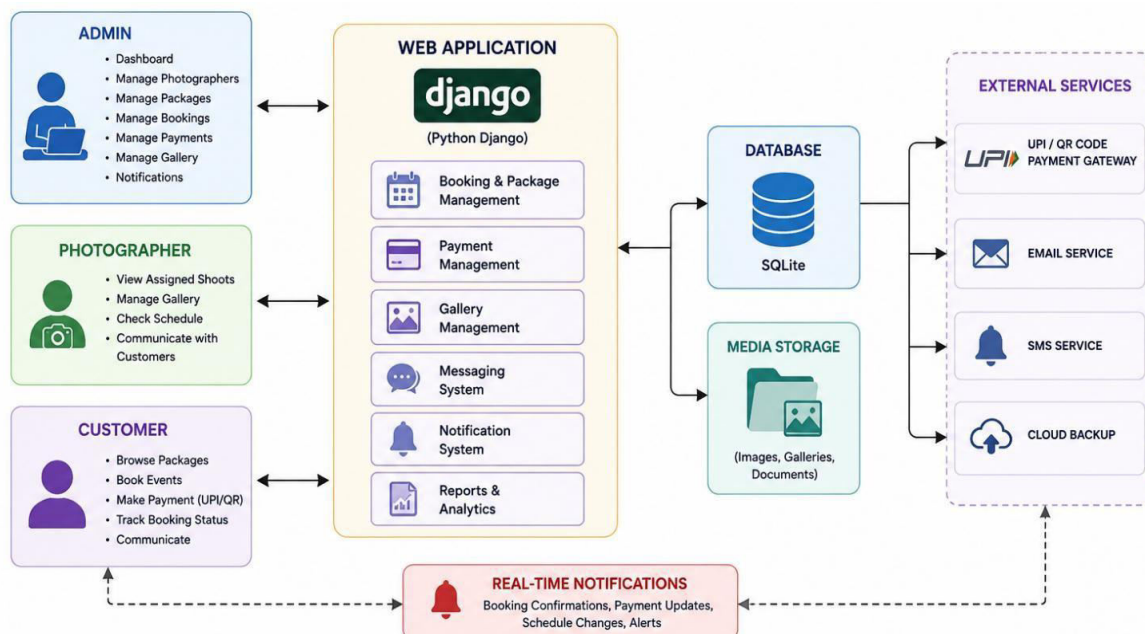
III. PROPOSED SYSTEM

The proposed Capture X Photography Studio Management System is designed to automate and simplify booking and management operations for a professional photography studio. The system manages photographer deployment, event bookings, package selection, payment processing, and client communication efficiently through a centralized platform. Bookings are assigned based on photographer availability, package tier, event type, and customer preference, reducing manual effort and scheduling errors. The system uses tiered package management (Diamond, Gold, Silver) and online booking to ensure fair service delivery and avoid confusion. High-value events such as weddings are assigned to experienced photographers for better service quality. Administrators can manage photographer records, packages, payments, and schedules easily from the admin dashboard. Overall, the system improves transparency, coordination, workload management, and operational efficiency in photography studio activities.

ADVANTAGES

- Reduces manual effort and saves time in booking scheduling and management.
- Ensures transparent package comparison and fair booking distribution.
- Avoids scheduling conflicts and minimizes human errors in booking allocation.
- Improves coordination, transparency, and efficiency in studio management operations.

IV. SYSTEM ARCHITURE



MODULE DESCRIPTION

- Requirement Analysis
- Technology Used
- System Interface Design
- Booking and Package Management
- Payment Processing
- Notification System
- Testing

1. Requirement Analysis

The project aims to develop a web-based system for photography studio management. It supports photographer management, package configuration, online booking, UPI/QR payment processing, gallery management, messaging, and real-time notifications.

2. Technology Used

The system is built using Python and the Django framework. HTML, CSS, JavaScript, and SQLite are used for interface design and data storage. The qrcode Python library is used for generating unique UPI payment QR codes per transaction.

3. System Interface Design

A user-friendly interface is provided for administrators, photographers, and customers. Admins can manage photographers, packages, and bookings, while photographers can view their schedules and manage their gallery. Customers browse packages and track their bookings.

4. Booking and Package Management

The system uses a tiered package structure (Diamond, Gold, Silver) for fair and transparent service delivery. Bookings are assigned based on package selection, photographer availability, and event date. Conflict detection prevents double-booking on the same date.

5. Payment Processing

The system tracks payment details through UPI/QR Code integration. Each booking generates a unique QR code linked to the studio's UPI ID. Payments are verified by the admin, and notifications are sent automatically upon payment confirmation.

6. Notification System

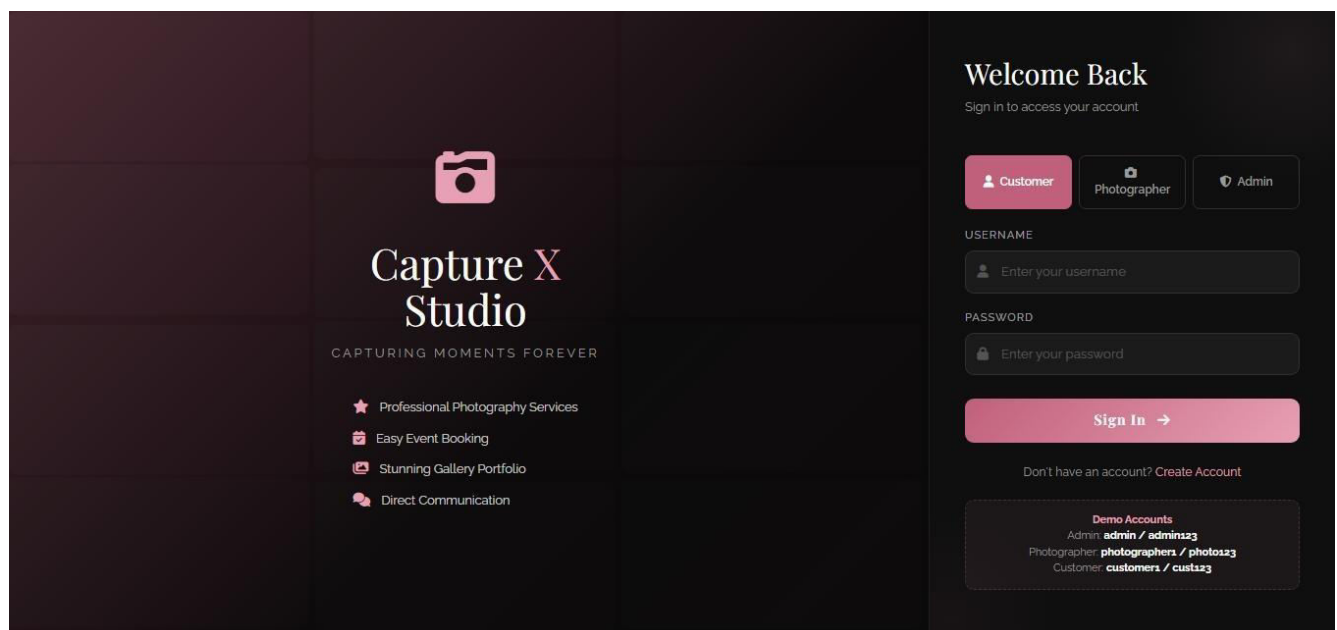
Notifications are sent to customers and photographers about booking confirmations, payment updates, and schedule changes, improving communication and coordination across the platform.

7. Testing

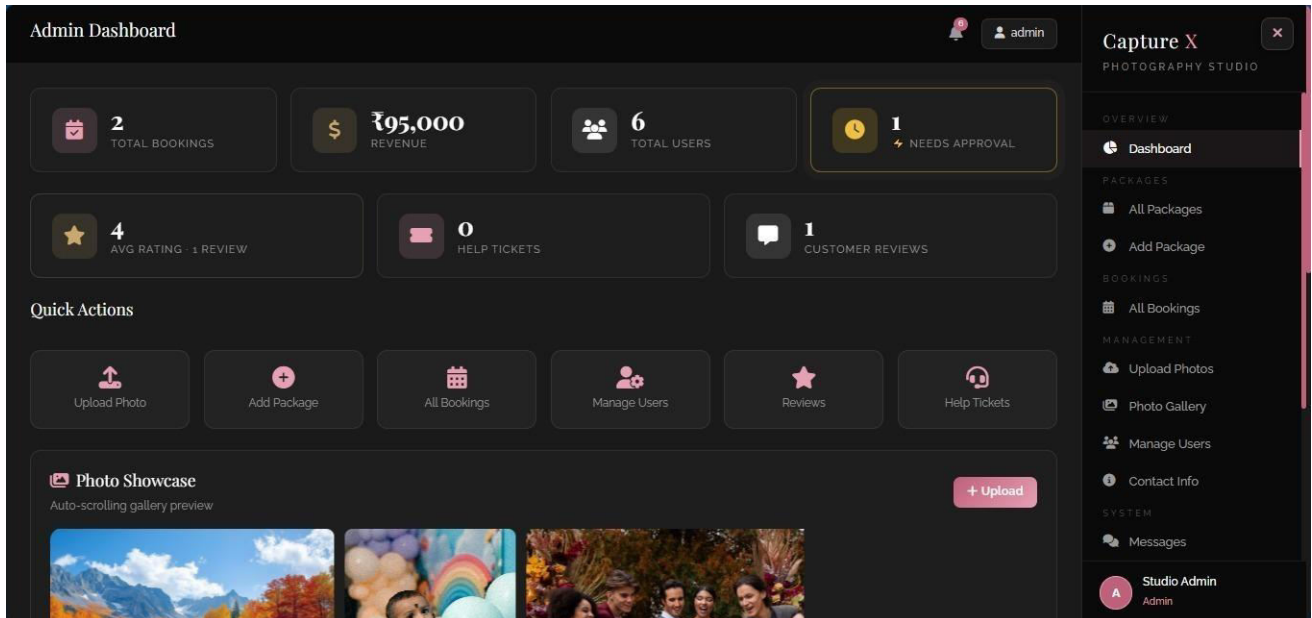
The system is tested using different booking, payment, and messaging scenarios to ensure accurate scheduling, payment handling, and reliable notification delivery across all user roles.

V. SCREENSHOT

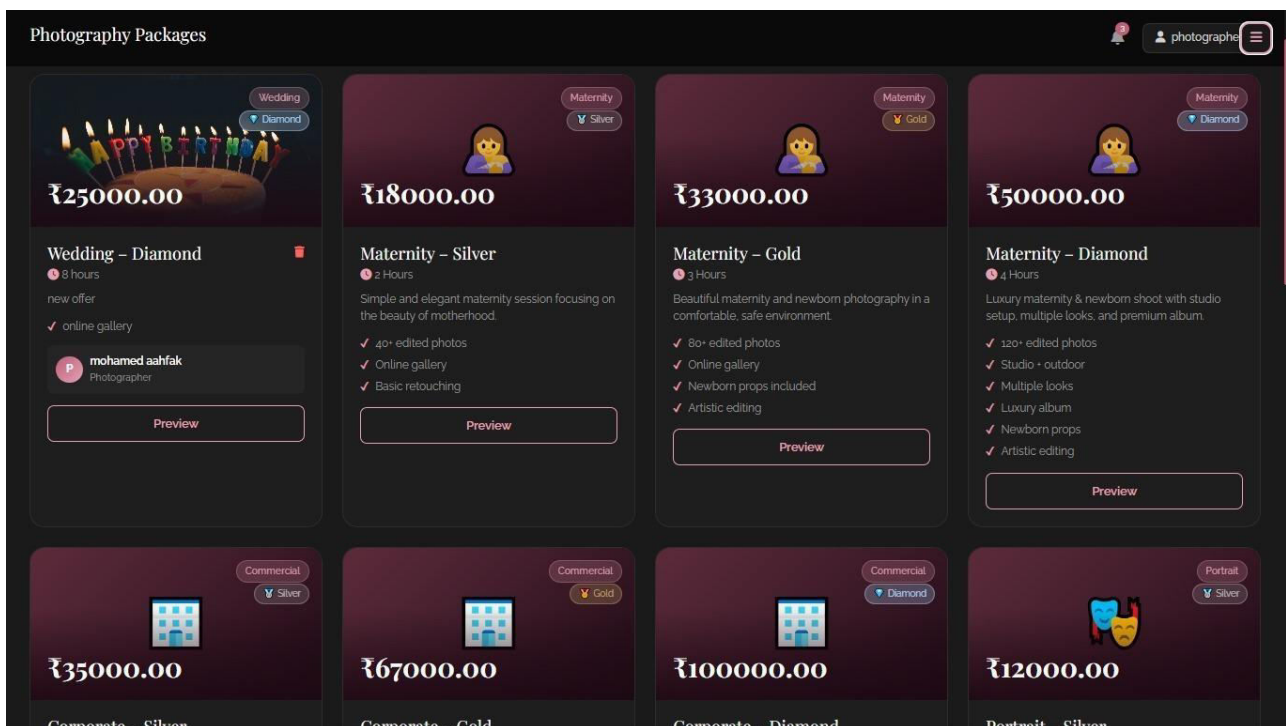
Login Page



Admin Dashboard



Packages List



Book Event Page

Book a Session

customer1

Capture X
PHOTOGRAPHY STUDIO

EXPLORE

Dashboard

Gallery

Packages

MY ACCOUNT

Book Event

My Bookings

Messages

Notifications

Reviews

Help & Feedback

Contact Us

ACCOUNT

My Profile

Logout

mohamed Ashfak
Customer

1
Package

2
Details

3
Confirm

Select Package

Wedding – Diamond

Wedding • Full Day (12 hrs)

The ultimate wedding experience with 3 photographers, cinematographer, videographer, and more.

₹150000.00

8 items included

Wedding – Gold

Wedding • Full Day (12 hrs)

Premium wedding coverage with two photographers, full editing, and more.

₹95000.00

6 items included

Wedding – Silver

Wedding • 8 Hours

Essential wedding coverage capturing all key moments with our team.

₹50000.00

5 items included

Birthday – Diamond

Birthday • 8 Hours

Grand birthday celebration coverage with full-day shoot, professional editing, and more.

₹60000.00

6 items included

Birthday – Gold

Birthday • 5 Hours

Complete birthday coverage capturing every laugh and special moment.

₹38000.00

4 items included

Order Summary

Package

Maternity – Silver

Photographer

James Chen

Date

—

Subtotal

₹18000.00

Total

₹18000.00

→ Continue to Payment

Secure booking, cancel anytime

Payment Page

Payment

customer1

Capture X
PHOTOGRAPHY STUDIO

EXPLORE

Dashboard

Gallery

Packages

MY ACCOUNT

Book Event

My Bookings

Messages

Notifications

Reviews

Help & Feedback

Contact Us

ACCOUNT

My Profile

Logout

mohamed Ashfak
Customer

Scan to Pay

Scan with any UPI app to pay

capturex@upi



AMOUNT TO PAY

₹150000.00

REF: 40b21745-42c0-44...

1

Open Payment App

Open any UPI, GPay, PhonePe or PayTM

2

Scan QR Code

Point your camera at the QR code above

Order Details

Booking #4CB21745

Package

Wedding – Diamond

Type

Wedding

Event Date

May 7, 2026

Event Time

11:55 a.m.

Name: Mohamed Ashfak Address: No. 1/100, malaipatti City: Dindigul State: Tamil Nadu PIN Code: 624705 Phone: 9876543210

Photographer

James Chen

Subtotal

₹150000.00

Tax

₹0.00 (included)

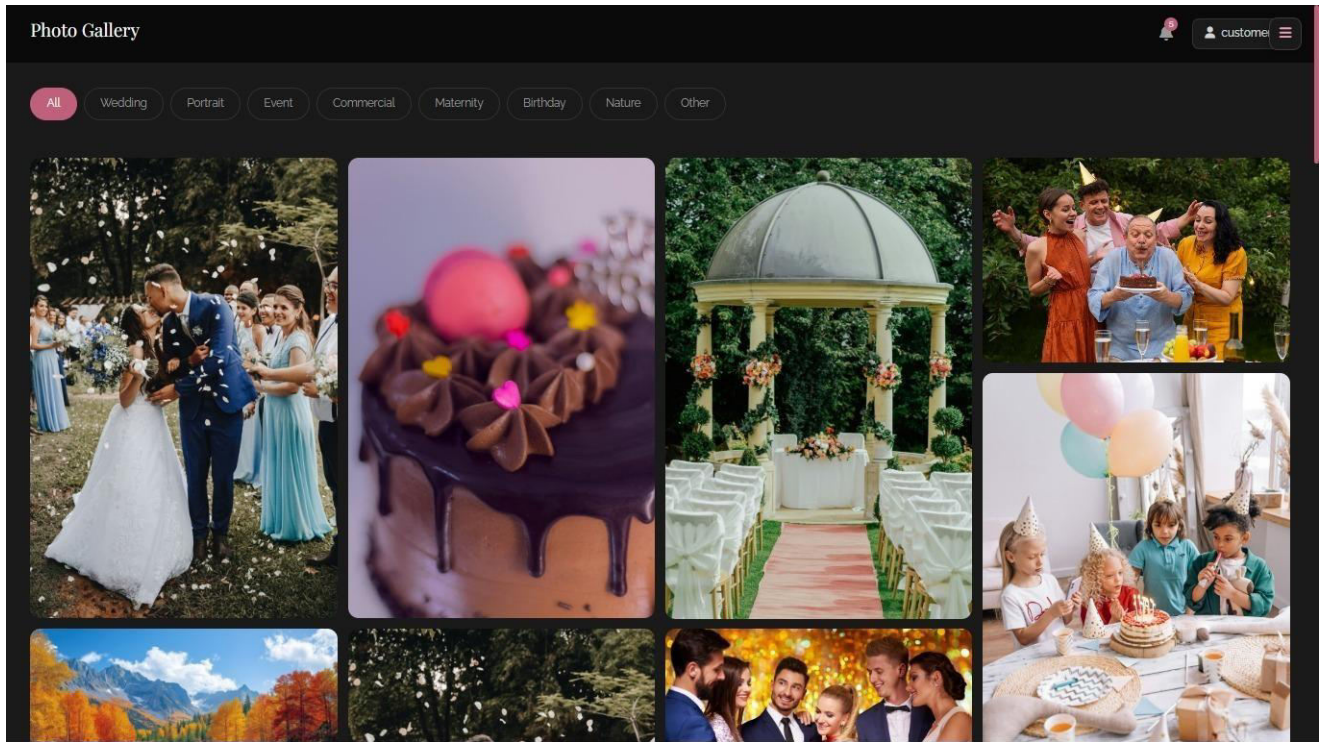
Total Due

₹150000.00

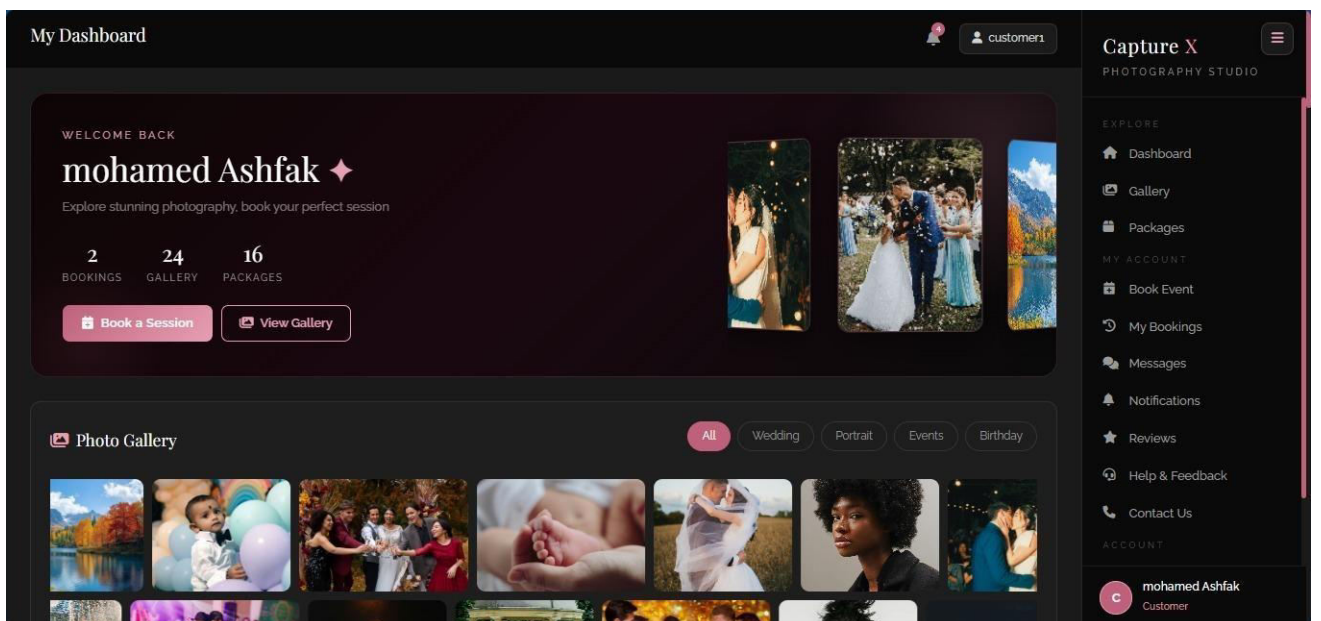
Secure & Protected

Your booking details are encrypted and safe.

Gallery Page



Customer Dashboard



VI. CONCLUSION

The Capture X Photography Studio Management System provides an efficient solution for managing and assigning bookings to photography personnel in a structured and systematic manner. The system replaces traditional manual scheduling methods with an automated approach that ensures fair and transparent delivery of photography services based on photographer availability, package tier, event type, and customer preference. Overall, the proposed system improves operational efficiency, reduces administrative workload, and supports better studio management by ensuring

proper deployment of photographers across different events and locations. The system also enhances communication between the studio and customers through notification and alert features. By automating the booking and payment process, the project minimizes manual errors, ensures fairness in service delivery, and increases the reliability of photography studio management. This software solution provides a secure, user-friendly, and efficient platform for managing photography studio operations in a smart and organized manner.

VII. FUTURE ENHANCEMENTS

In future, the Capture X Photography Studio Management System can be extended by developing a separate mobile application for customers and photographers. The mobile application will allow customers to browse packages and book events instantly from their smartphones without needing to access the web system through a computer. This will improve accessibility and make the system more convenient for daily use. The mobile application can provide real-time push notifications about booking confirmations, payment updates, and photographer assignment changes. Customers will also be able to make payments, send messages, and check booking status directly through the mobile interface. This will reduce communication delays and improve coordination between the studio, photographers, and clients. Additional future enhancements include AI-based photographer recommendation using event type and budget preferences, cloud media storage (AWS S3) for scalable gallery management, real-time chat using Django Channels (WebSockets), automated PDF invoice generation for every confirmed payment, a customer review and star-rating system for photographers, and multi-language support to serve a broader regional audience across Tamil Nadu.

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