Transform Yourself

KONGU ENGINEERING COLLEGE
PERUNDURAI ERODE-638060
DEPARTMENT OF CSD

Smartprint Hub

PROJECT GUIDE
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OBJECTIVE

- To develop a fast and efficient file-sharing system for photocopy shops.
- To eliminate dependency on Gmail, WhatsApp, and other apps.
- To enable offline file transfer, reducing network costs.
- To provide better file management for shop owners.
- To track Xerox count and revenue efficiently.
- To ensure a secure and hassle-free file-sharing experience.

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TECHNOLOGIES

Frontend:

React.js – For building the interactive and user-friendly customer and shop UI.

Backend:

Node.js – Server-side logic and file handling.

Express.js – Routing and API management.

Real-time Communication:

WebSocket (Socket.IO) – For instant file transfers and live queue updates.

Desktop App Packaging:

Electron.js – For bundling the system into a cross-platform desktop application for shop owners.

Networking:

Local Wi-Fi (No Internet Needed) – Enables file transfer and communication over LAN.

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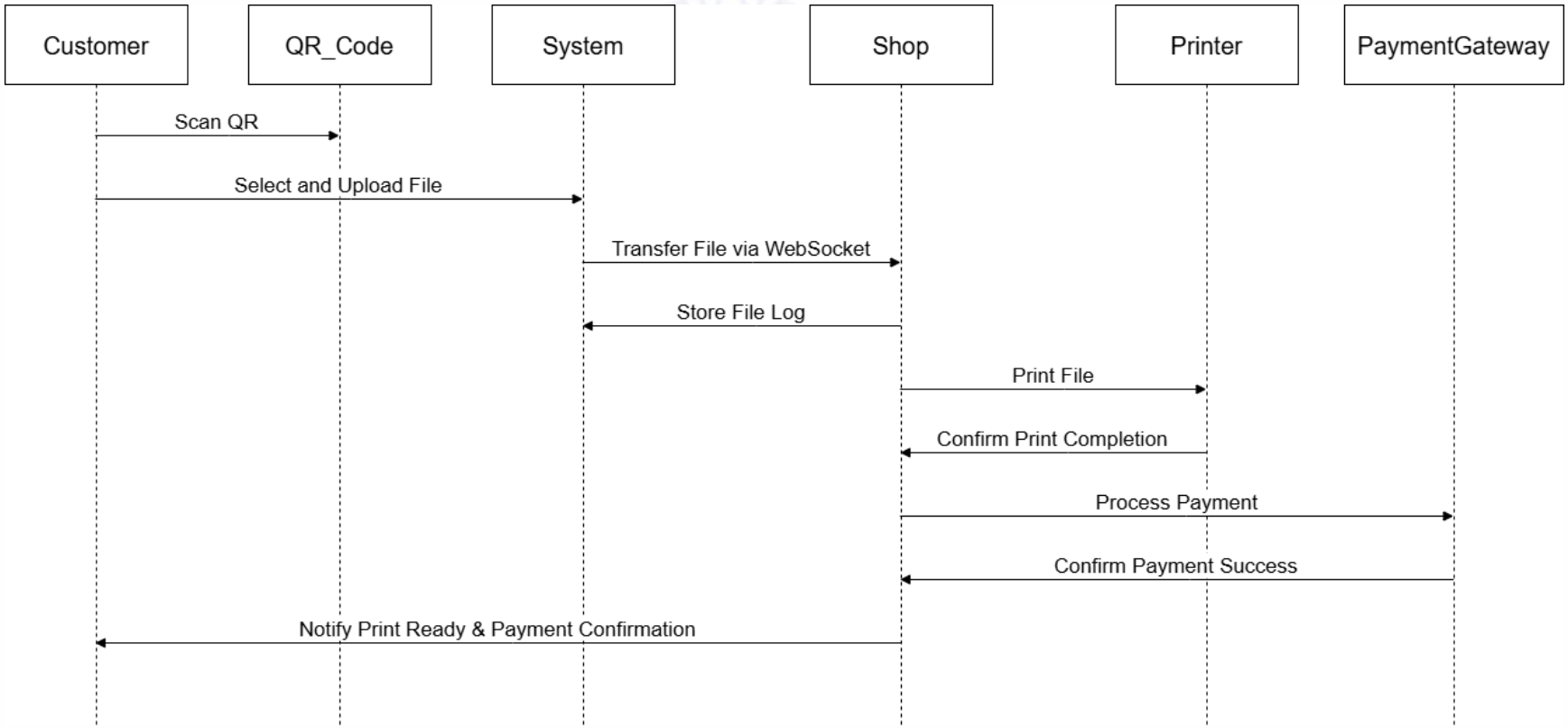
WORKFLOW



MODULE DESCRIPTION

- QR Code-based Connection Module
- Instant File Transfer Module
- Offline Support Module
- Queue Management Module
- Shop Owner Control Panel
- Xerox Count & Billing Module
- File History & Reprint Module
- Easy Setup & Deployment Module
- Local Storage & Security Module

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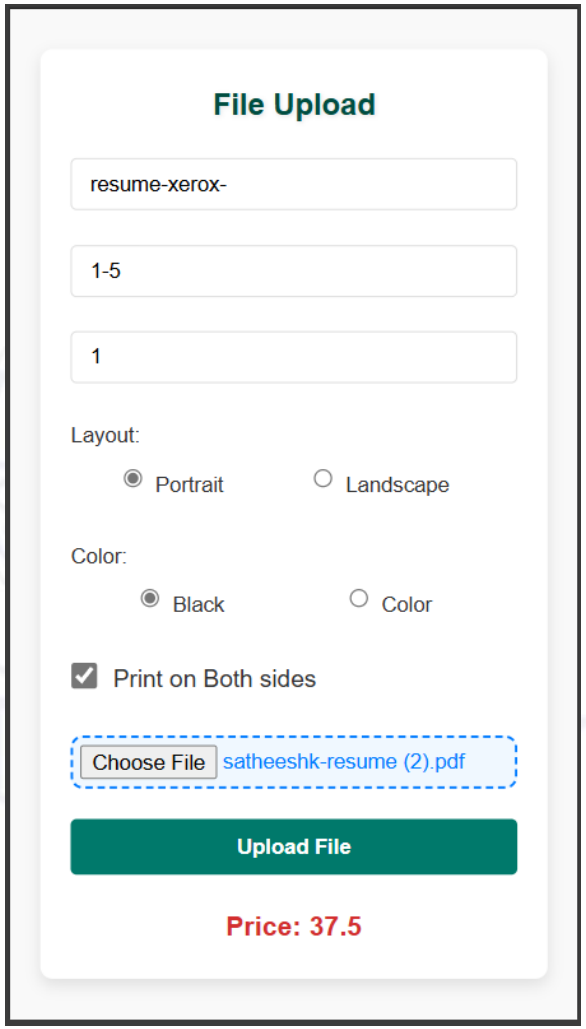
IMPLEMENTATION



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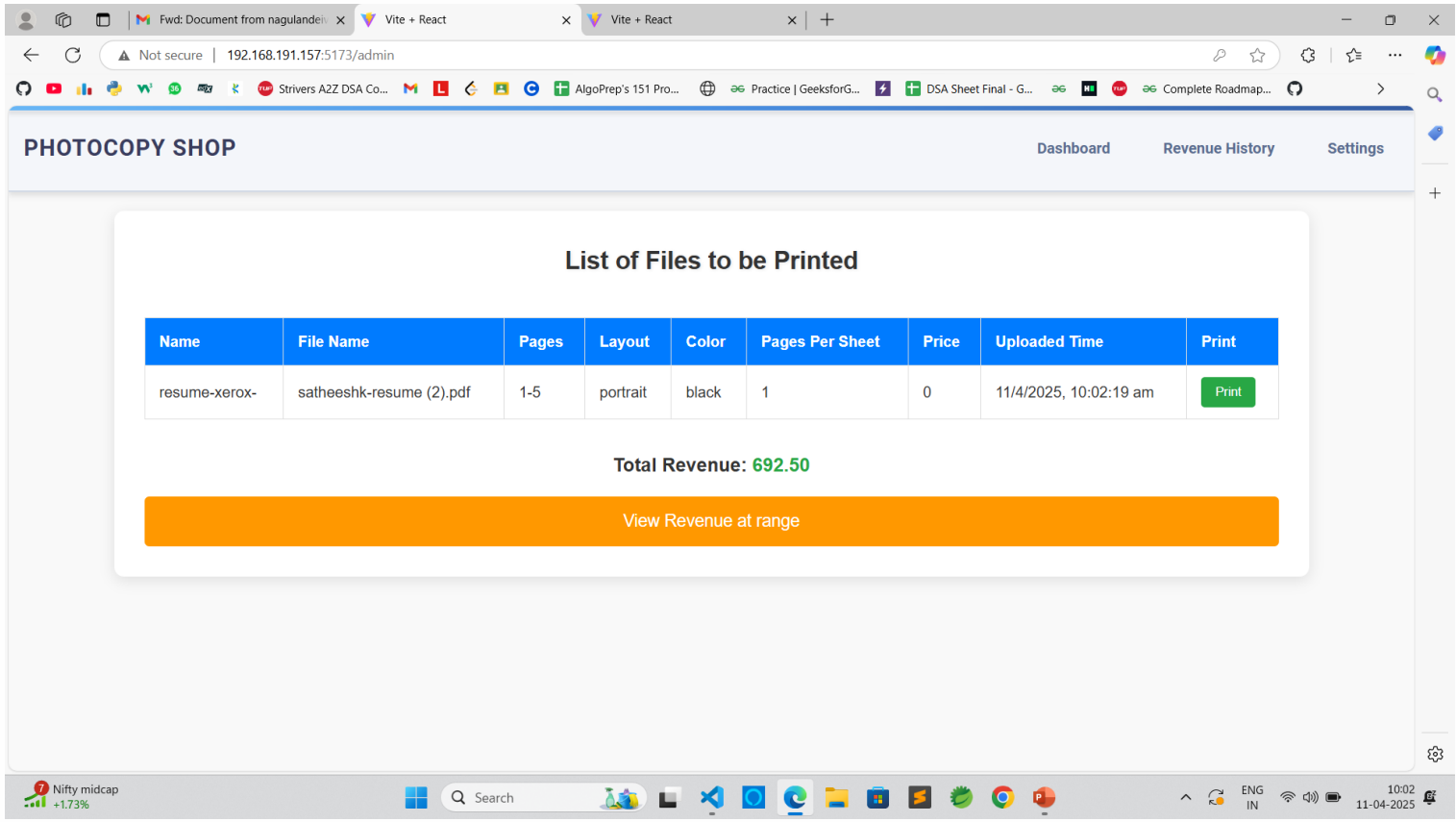

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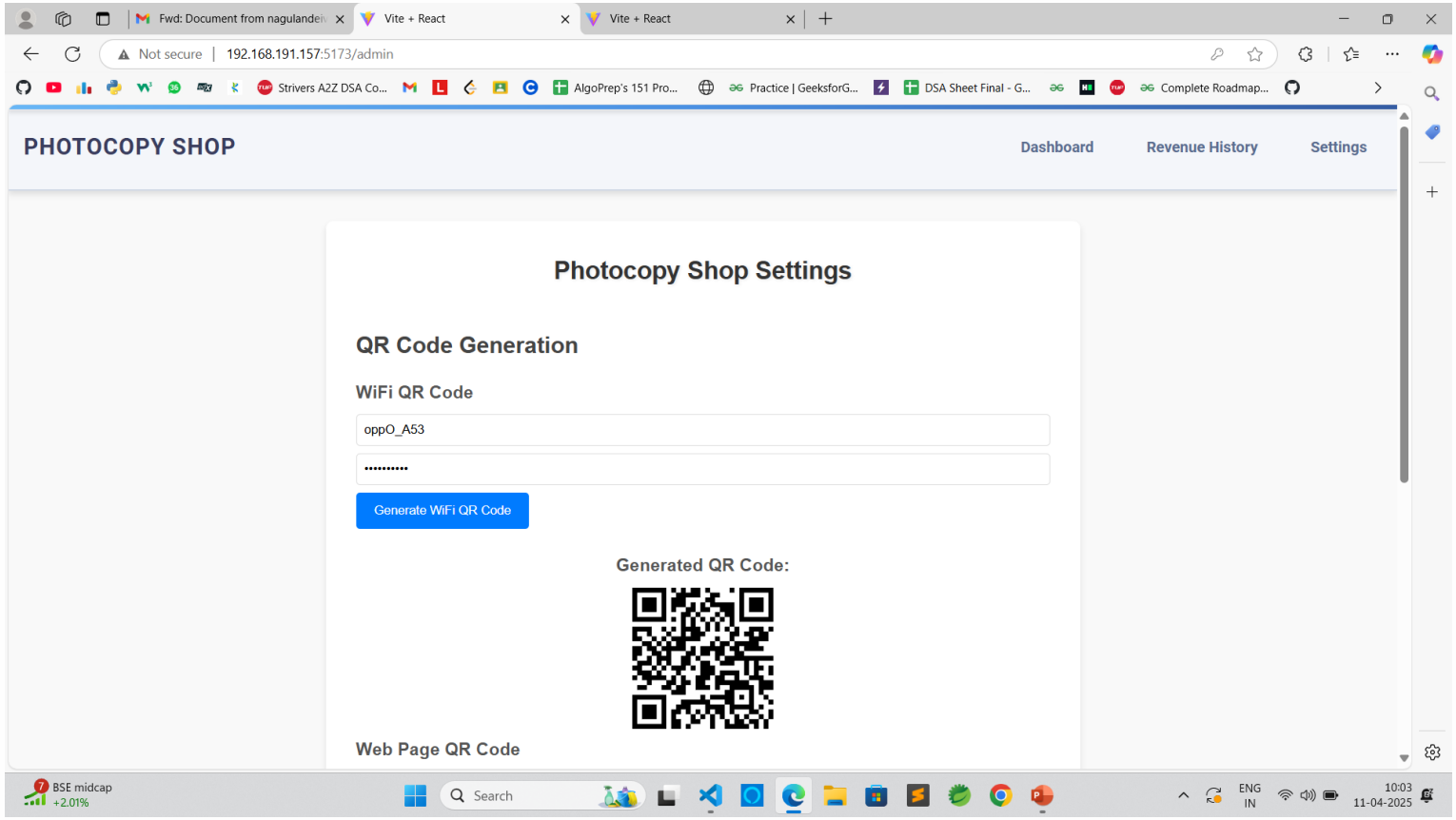

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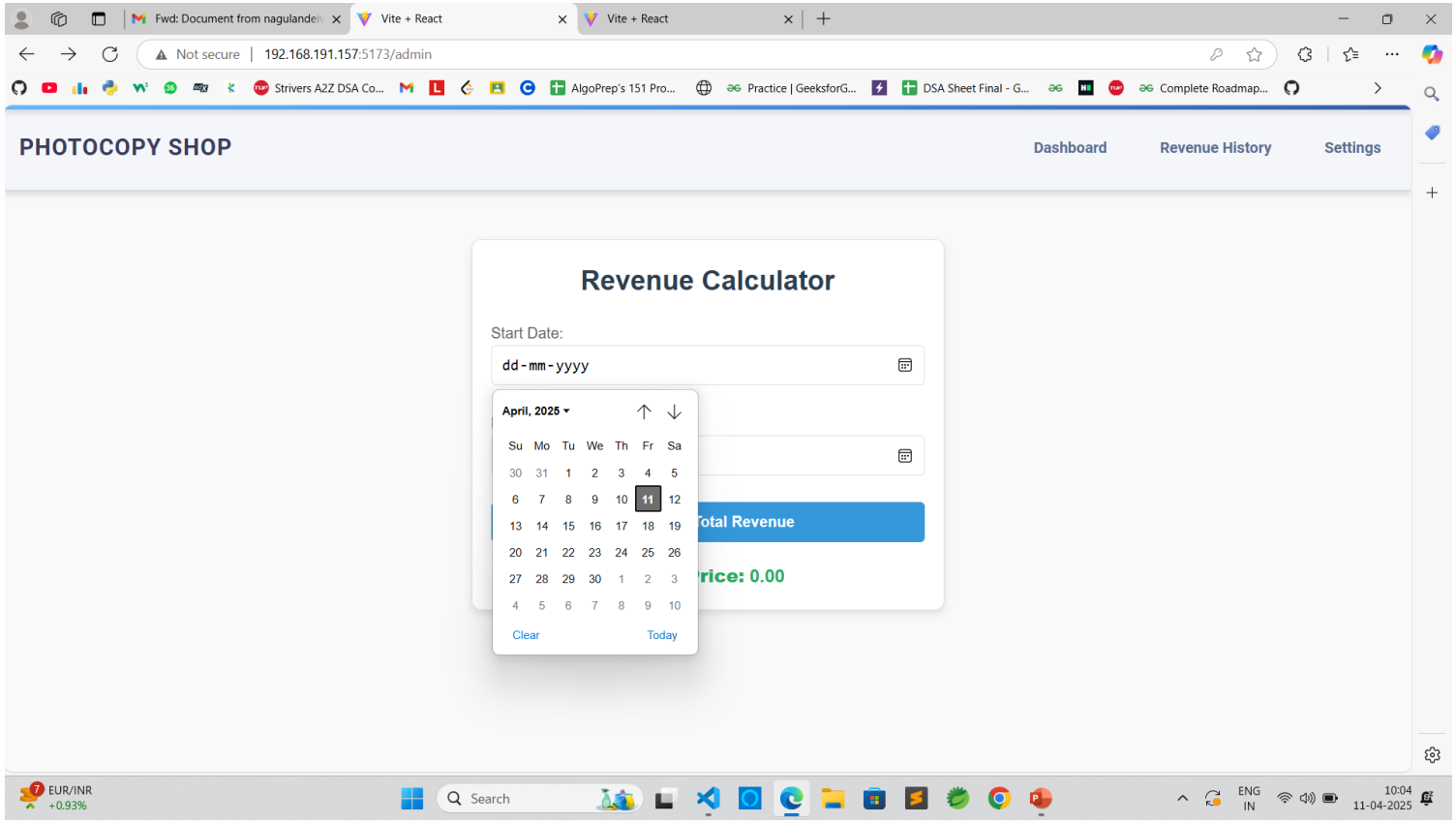

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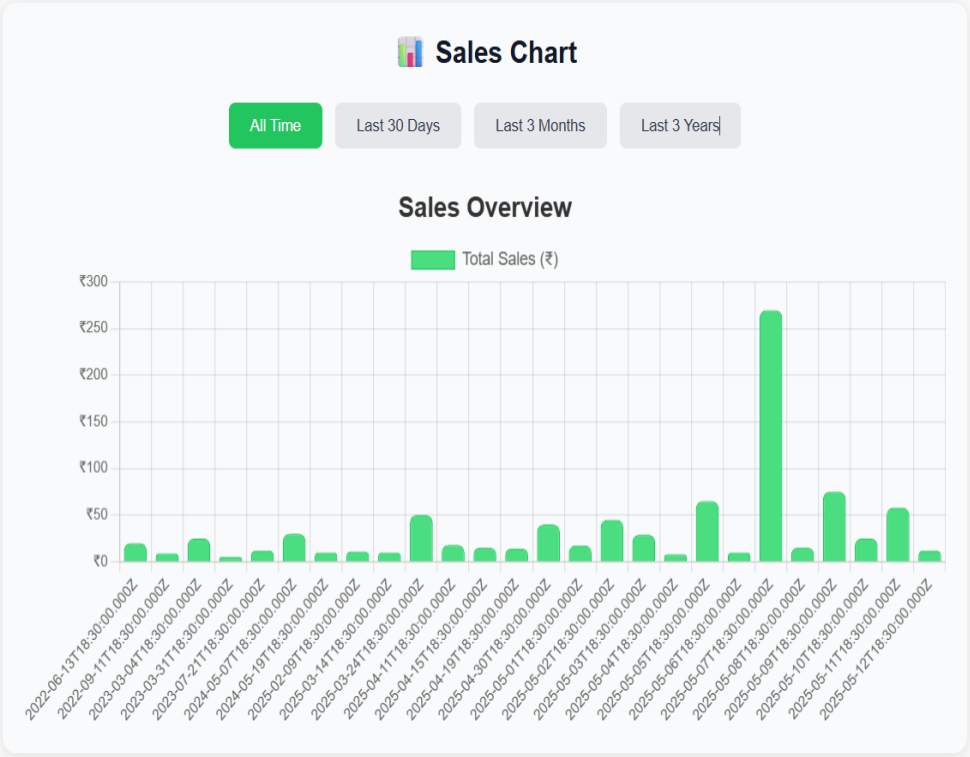

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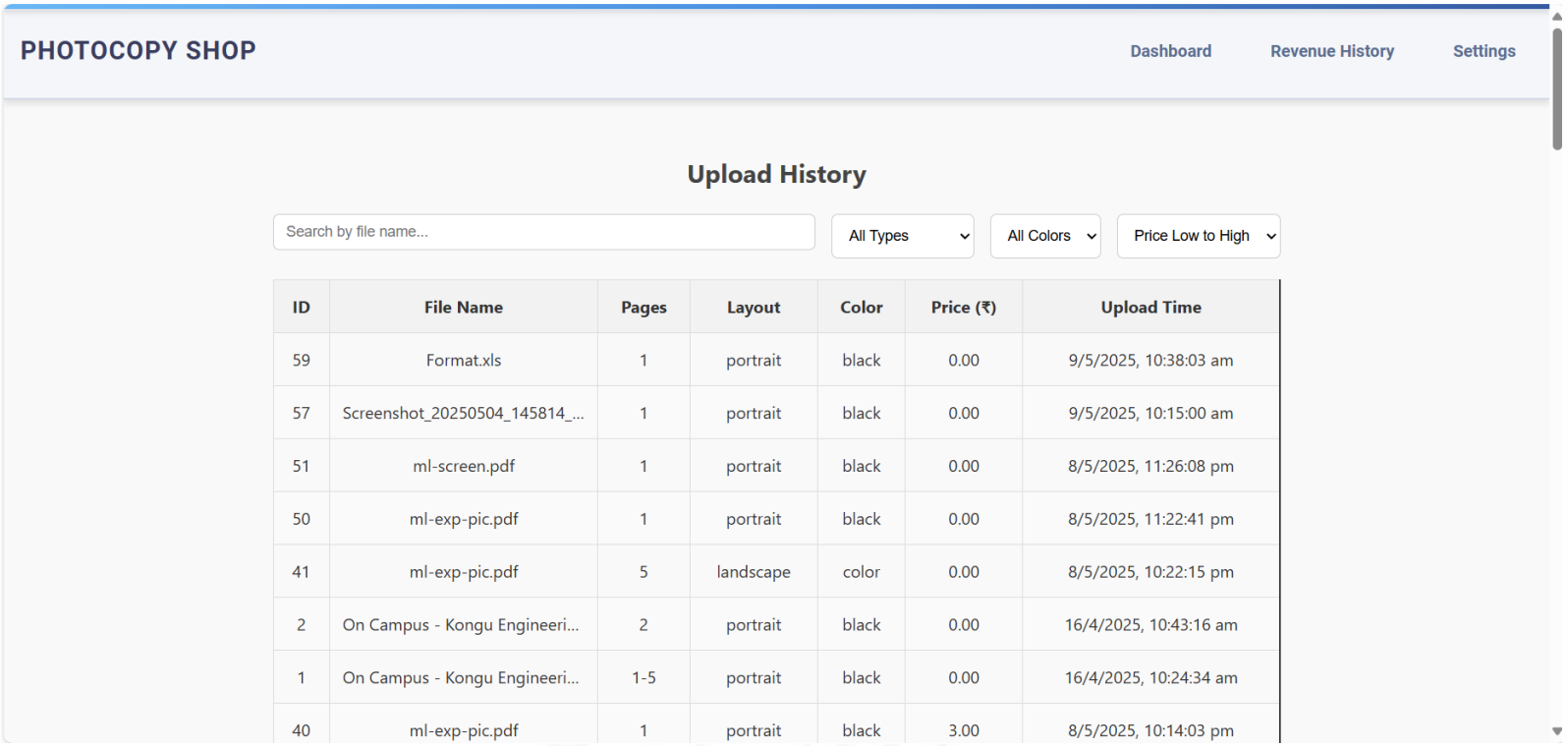

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RESULTS

- **QR Code-based Connection Module**

Successfully established secure customer-shop connection via QR code scanning.

- **Instant File Transfer Module**

Enabled real-time file transfers between customer and shop systems without delay.

- **Offline Support Module**

Achieved complete functionality over local network without internet dependency.

- **Queue Management Module**

Implemented file queuing system to manage multiple customer requests efficiently.

- **Shop Owner Control Panel**

Developed a user-friendly dashboard to manage files, print jobs, and customer queue.

- **Easy Setup & Deployment Module**

Packaged the system into a single-click Electron app for seamless installation and use.

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