



Transform Yourself

KONGU ENGINEERING COLLEGE
PERUNDURAI ERODE-638060
DEPARTMENT OF CSD

Smartprint Hub

PROJECT GUIDE

Dr.K.R Prasannakumar

PROJECT MEMBERS

SATHEESH K - 22CDR089

PRAVEEN KUMAR C - 22CDR073

NAGULAN D - 22CDR059



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.

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.

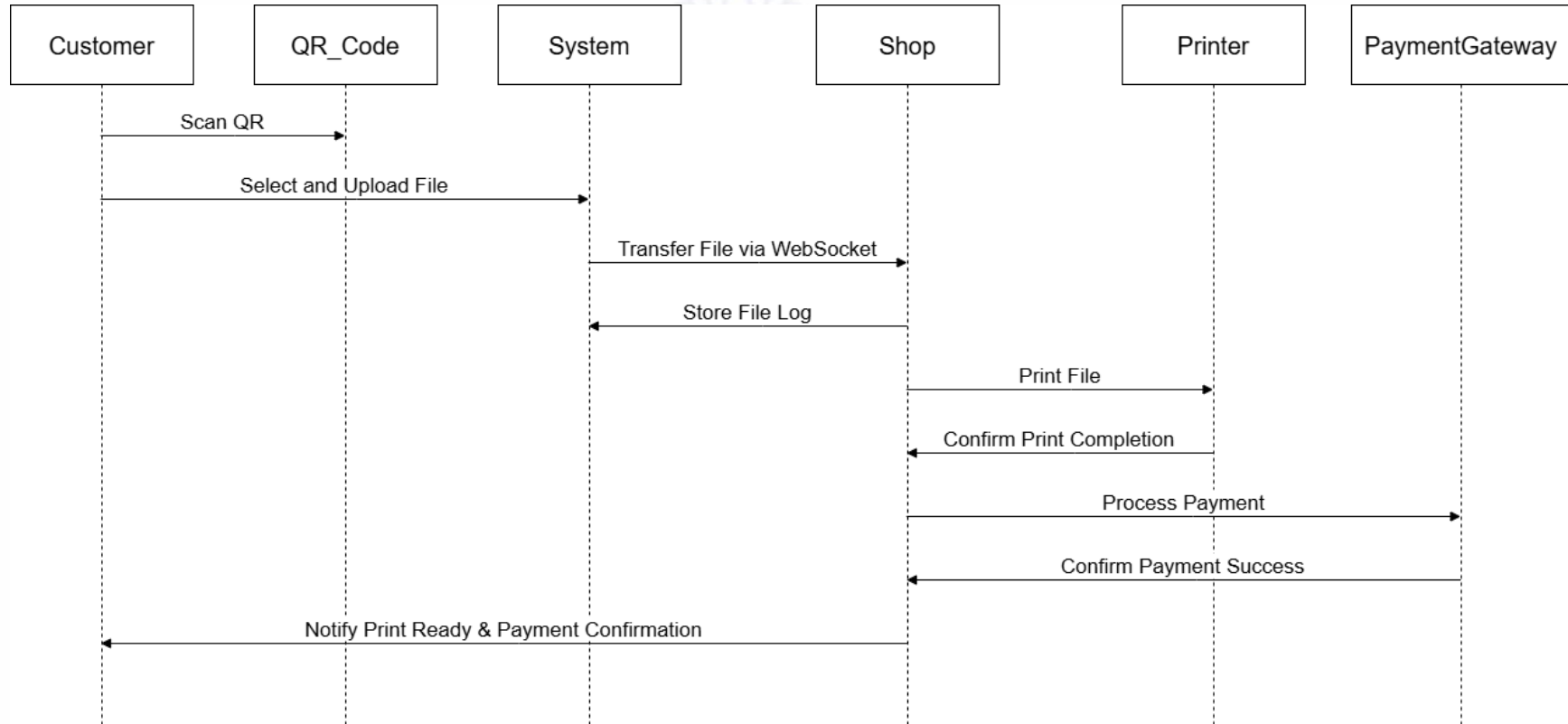
Desktop App Packaging:

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.

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

IMPLEMENTATION

File Upload

resume-xerox-

1-5

1

Layout:

☒ Portrait ☐ Landscape

Color:

☒ Black ☐ Color

☒ Print on Both sides

Choose File

satheeshk-resume (2).pdf

Upload File

Price: 37.5

IMPLEMENTATION

PHOTOCOPY SHOP

Dashboard Revenue History Settings

List of Files to be Printed

Name	File Name	Pages	Layout	Color	Pages Per Sheet	Price	Uploaded Time	Print
resume-xerox-	satheeshk-resume (2).pdf	1-5	portrait	black	1	0	11/4/2025, 10:02:19 am	<button>Print</button>

Total Revenue: 692.50

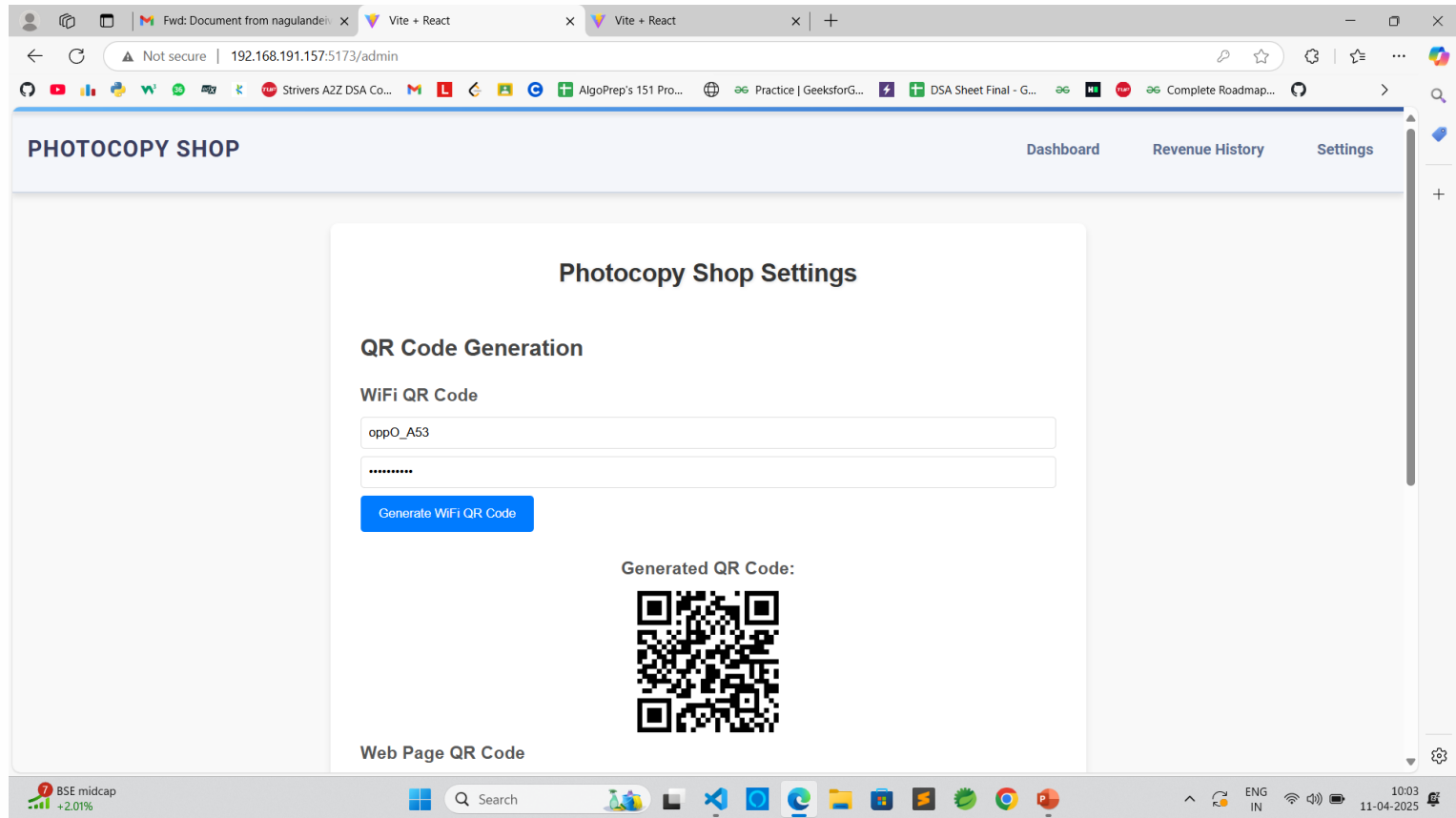
[View Revenue at range](#)

Nifty midcap +1.73%

Search

ENG IN 10:02 11-04-2025

IMPLEMENTATION



IMPLEMENTATION

The screenshot displays a web application interface for a 'PHOTOCOPY SHOP'. The main header includes navigation links for 'Dashboard', 'Revenue History', and 'Settings'. A 'Revenue Calculator' modal is open, featuring a 'Start Date' input field with a calendar dropdown. The calendar is set to April 2025, with the 11th selected. The modal also shows a 'Total Revenue' button and a 'Price: 0.00' label. The background shows a dashboard with a sidebar and a main content area. The bottom of the screen shows a Windows taskbar with various icons and a system clock.

PHOTOCOPY SHOP

Dashboard Revenue History Settings

Revenue Calculator

Start Date:

dd-mm-yyyy

April, 2025

Su Mo Tu We Th Fr Sa

30 31 1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28 29 30 1 2 3

4 5 6 7 8 9 10

Clear Today

Total Revenue

Price: 0.00

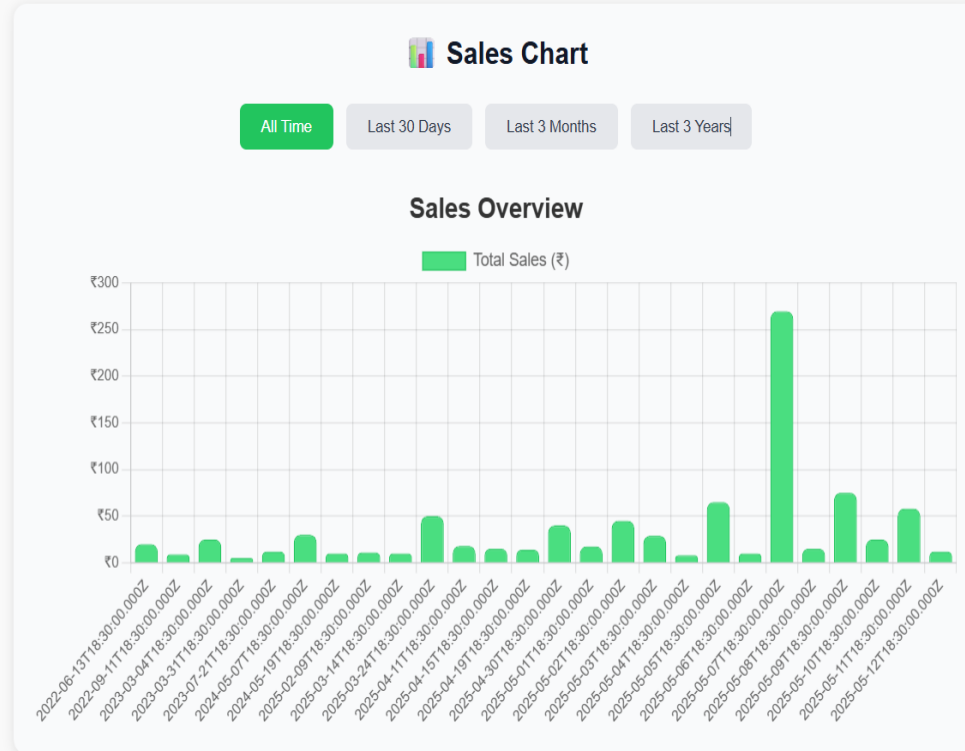
EUR/INR +0.93%

Search

ENG IN

10:04 11-04-2025

IMPLEMENTATION



IMPLEMENTATION

PHOTOCOPY SHOP

[Dashboard](#)[Revenue History](#)[Settings](#)

Upload History

All Types

All Colors

Price Low to High

ID	File Name	Pages	Layout	Color	Price (₹)	Upload Time
59	Format.xls	1	portrait	black	0.00	9/5/2025, 10:38:03 am
57	Screenshot_20250504_145814_...	1	portrait	black	0.00	9/5/2025, 10:15:00 am
51	ml-screen.pdf	1	portrait	black	0.00	8/5/2025, 11:26:08 pm
50	ml-exp-pic.pdf	1	portrait	black	0.00	8/5/2025, 11:22:41 pm
41	ml-exp-pic.pdf	5	landscape	color	0.00	8/5/2025, 10:22:15 pm
2	On Campus - Kongu Engineeri...	2	portrait	black	0.00	16/4/2025, 10:43:16 am
1	On Campus - Kongu Engineeri...	1-5	portrait	black	0.00	16/4/2025, 10:24:34 am
40	ml-exp-pic.pdf	1	portrait	black	3.00	8/5/2025, 10:14:03 pm

Estd : 1984

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.

