

MINI PROJECT

PRESENTED BY:

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PAYMENT SYSTEM

Overview:

This project aims to streamline grocery shopping by introducing a barcode-based mobile payment application. Developed using Python frameworks, the system enables users to scan product barcodes and complete payments securely and efficiently.

GitHub Repository Link: https://github.com/Chetna-Manral/Chetna_Manral_BCASectionA_PaymentApp.git

Project Video Link:

GitHub Report Link:

Chetna Manral BCASectionA PaymentApp/Project
Report.pdf at main · ChetnaManral/Chetna Manral BCASectionA PaymentApp

Features

- Barcode Scanning: Instantly identifies products by reading barcodes.
- Mobile-Friendly Interface: Built with Kivy for a smooth and intuitive user experience on mobile devices.
- Secure Payment Integration: Supports PayPal and similar gateways for quick, secure transactions.
- Error Reduction: Minimizes manual entry mistakes by automating product input and payment.
- Time and Cost Efficiency: Speeds up the checkout process and reduces the need for additional staff or equipment.

Tech Stack

• Frontend: Kivy, Stripe, Pyzbar

• Backend: Django, Rest framework

• Database: SQL Lite

- Frameworks/Libraries: Rest framework, Django, Stripe, Kivy, Pyzbar, Requests, djangorestframework
- API Requests: Django Rest API endpoints

How to Install

To get the app up and running locally, follow these steps:

- 1. Clone the repository:
- 2. Navigate to the backend directory, create virtual environment and import libraries.
- 3. To start the backend server, run:

```
cd backend
python manage.py makemigrations
python manage.py migrate
python manage.py runserver
```

4. To run the frontend (client side) run:

cd frontend python main.py

Backend Setup

- The backend is a *Django* server.
- The backend also provides an *API endpoint* to fetch financial data (/api/data).

How to Use

- 1. Sign Up: Create an account and choose your product.
- 2. Scan: Scan barcode of your product.
- 3. **Payment Options**: Select UPI/PayPal as your payment option.
- 4. **Confirmation**: Proceed to pay.

Contributing

We welcome contributions to make **Payment System** transaction easier in much crowded places.

To contribute:

- 1. Clone the repository.
- 2. Navigate to the backend directory.
- 3. Create virtual environment and import libraries.
- 4. Create a new branch for your feature or bug fix.

- 5. Push your changes to your forked repository.
- 6. Open a pull request for review.