E-commerce Platform using Flask
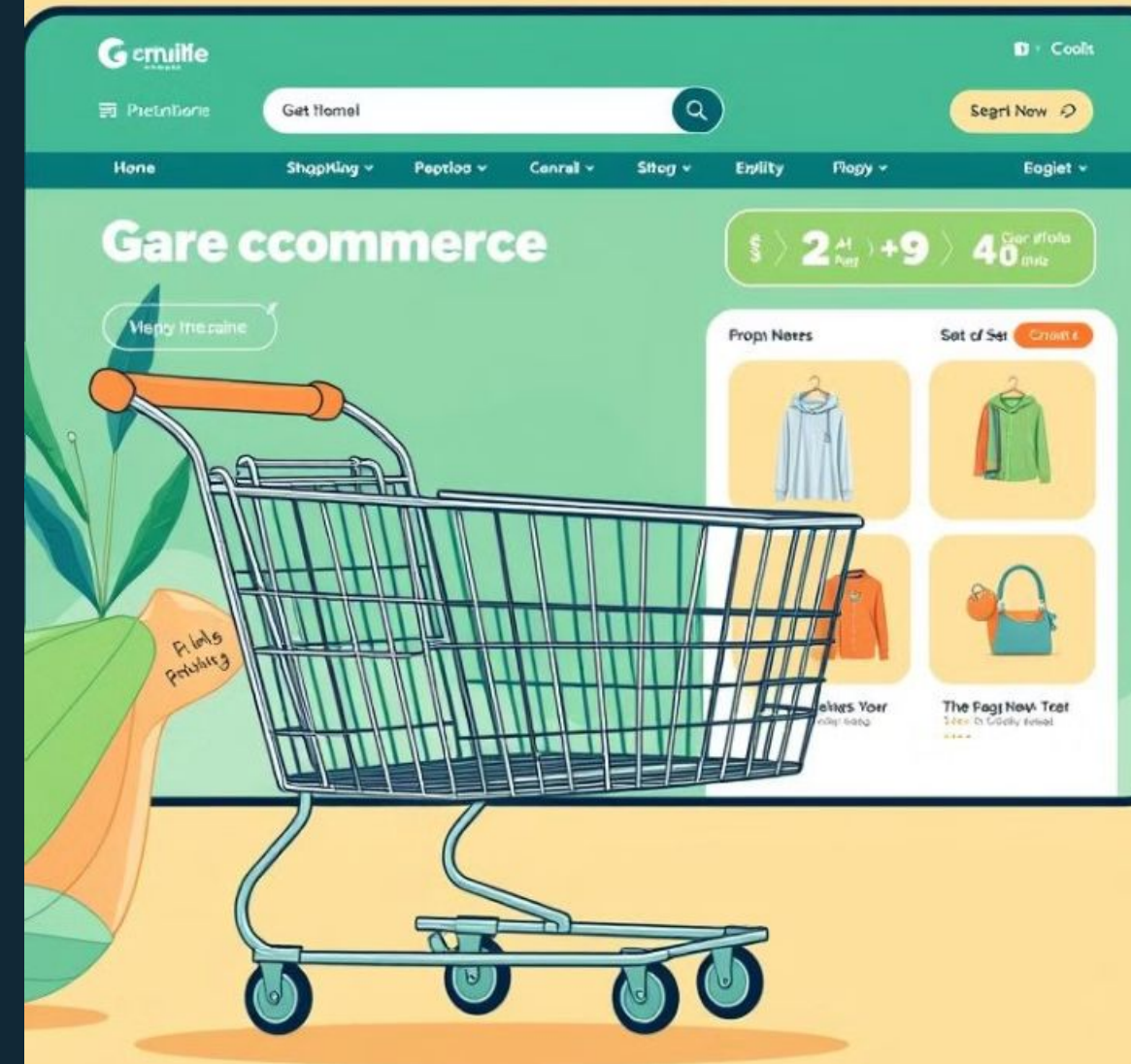
Empowering online shopping with a seamless, user-friendly platform built on Flask.

by Anthony Ndegwa

Team Members

Anthony Ndegwa

Full Stack Developer

Python, Flask, Database Design, Front-end, API Development

Github: https://github.com/ndegwaanth/E-commerce

Project Description

1 **Browse Products**

Wide range of products with rich detail pages

2 **Seamless Shopping**

Add to cart, manage quantities, and checkout easily

3 **Manage Accounts**

View past orders, save favorites, and more

4 **Admin Interface**

Manage products, orders, payments, and customer data

Learning Objectives

1 Web Development
Flask, front-end, back-end

2 Database Design
Relational database, SQLAlchemy

3 Authentication and Security
Flask-Login, bcrypt, secure payments

4 Agile Methodology
Sprints, Trello/Kanban, iterative improvements

5 API Integration
RESTful API, third-party services
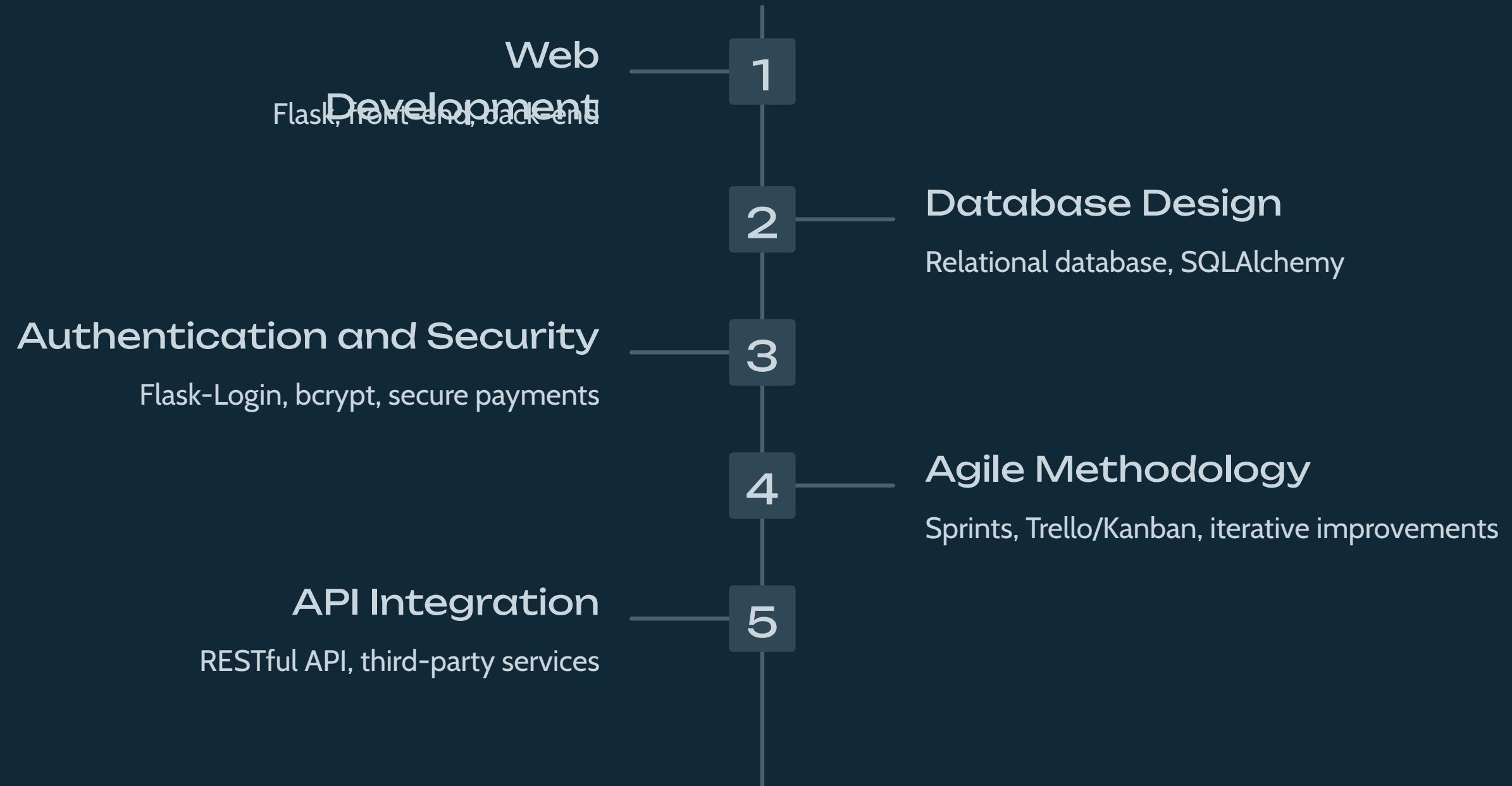
Technologies Used

Python (Flask)

Backend framework

HTML, CSS, JavaScript

Frontend development

MONGODB, SQLAlchemy

Database and ORM

Git, GitHub

Version control

Third-Party Services

Stripe or PayPal

Secure online payments

MPESA INTEGRATION

Google Analytics

User activity tracking

Challenges Identified

1 — **Scalability**

Handle increasing traffic and database load

2 — **Security**

Protect against attacks, secure payments

3 — **Responsive UI**

Ensure seamless experience across devices

Schedule of Work

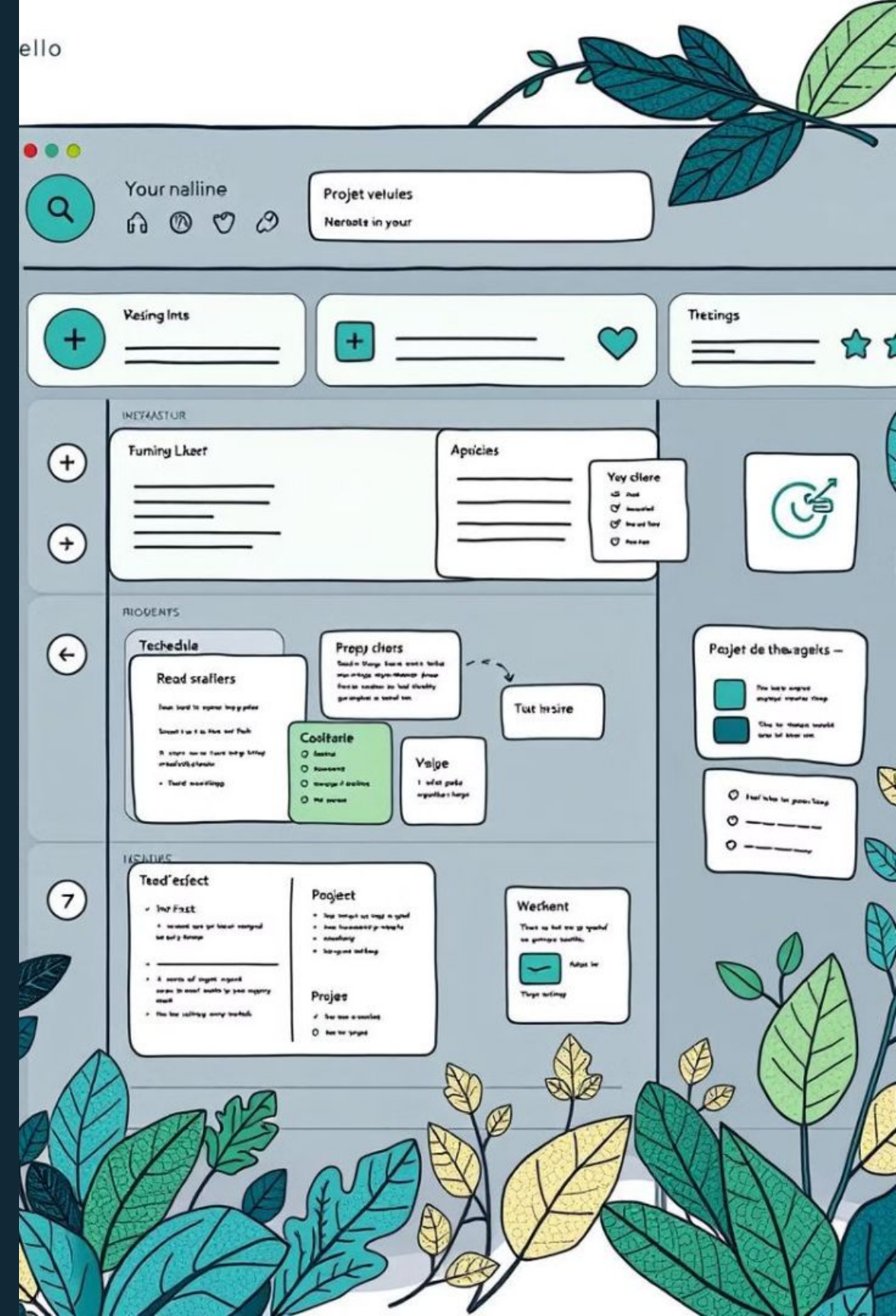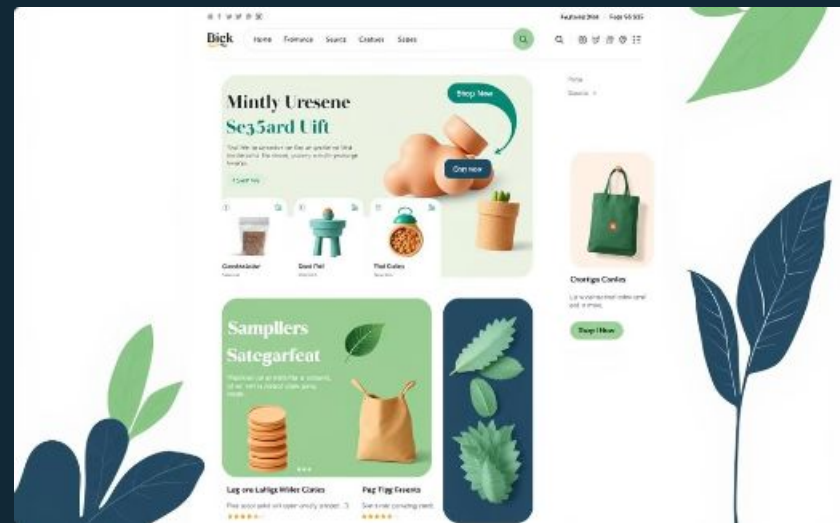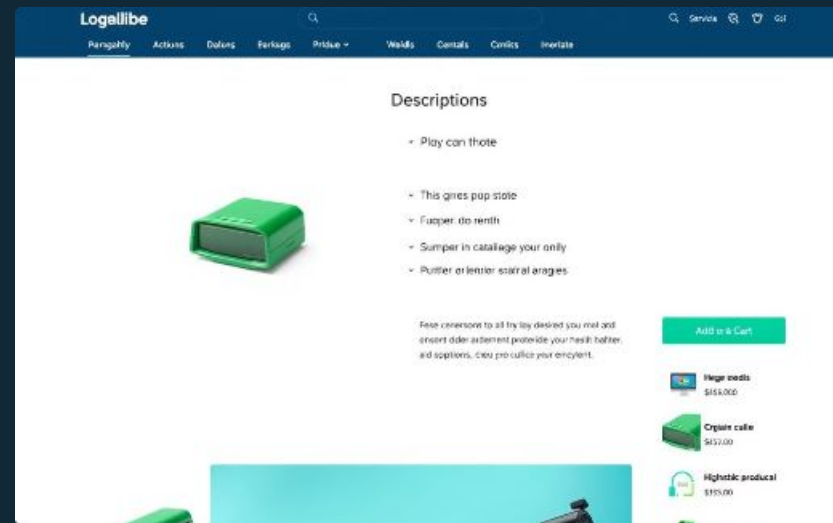|	
Week 1	Set up Flask, database models, authentication
Week 2	Implement product listing, shopping cart, admin panel
Week 3	Integrate payment gateway, testing, deployment
Week 4	Finalize testing, deploy to production, complete documentation

Mock-ups

Homepage

Product listings, featured items, and banners

Product Details

Detailed product information and add to cart
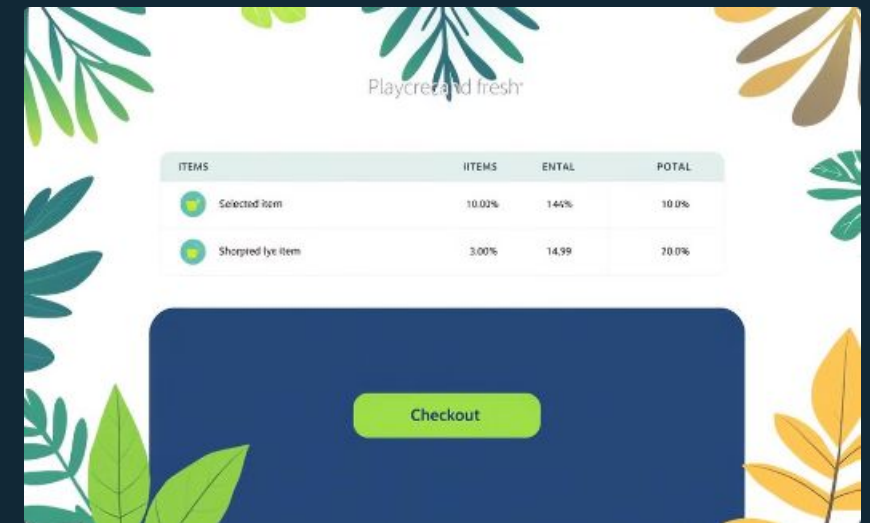
Shopping Cart

View cart contents and proceed to checkout

Thank You

Thank you for your time and attention. Looking forward to your feedback.