

پروژه فروشگاه آنلاین

تحويل: یک سال بعد (۲۰ فروردین)

We will develop an Online Cafe Ordering System using Python Flask and SQLite for the backend, and C# ,HTML for the front end. The system will allow customers to browse products, place orders, and view their order history.

Technologies:

- Backend: Python Flask with SQLite database.
- Frontend: C# Windows Forms / HTML,CSS, React
- Admin panel: [React admin](#)
- UI/UX: Figma
- Diagrams: mermaid

Steps:

- Create at least 3 diagrams with mermaid(activity diagram, ERD, sequence diagram , ...)
- Create ui/ux for customer view pages in Figma
- Develop backend
- Develop frontend customer view
- Develop frontend admin view

Customer View:

Product Browsing:

- Browse products by category.
- View product details including name, description, price, and image.
- Add products to the shopping cart.

Shopping Cart:

- View items added to the shopping cart.
- Adjust quantities or remove items from the cart.
- Proceed to checkout.

Checkout Process:

- Enter shipping and billing information.
- Select payment method.
- Place the order.

Account Management:

- Register for a new account.
- Log in to an existing account.
- View order history.
- Edit profile information.
- Reset password.

Order Tracking:

- View the status of current orders.
- Track order shipments (if applicable).
- Receive notifications about order status updates.

Admin View:

Dashboard:

- Overview of key performance indicators (KPIs) such as total sales, revenue, and number of orders.
- Graphical representation of sales trends and product performance.

Customers Management:

- View list of registered customers.
- Edit customer information.
- View customer order history.
- Delete customer accounts if necessary.

Products Management:

- View list of all products.
- Add new products.
- Edit existing product details.
- Delete products from the inventory.
- Manage product categories.

Orders Management:

- View list of all orders.
- View detailed order information including items, quantities, and total amount.
- Update order status.
- Cancel pending orders.
- Generate invoices or packing slips.

Categories Management:

- View list of all product categories.
- Add new categories.
- Edit existing category details.
- Delete categories.
- Assign products to categories.

Users Management:

- View list of all users (administrators).

- Add new users with specified roles.
- Edit user information.
- Change user roles or permissions.
- Delete user accounts if necessary.

Payments Management:

- View list of all payment transactions.
- Search payments by order number, payment method, or date.
- View payment details including amount and payment method.
- Process refunds for orders if required.

Shipping Addresses Management:

- View list of all saved shipping addresses.
- Edit existing addresses.
- Delete addresses from the database.
- Set default shipping addresses for customers.

Feedback Management:

- View list of all customer feedback submissions.
- Search feedback by order number, customer name, or rating.
- View feedback details including comments and ratings.
- Respond to customer feedback if necessary.

Admin Logs:

- View log of all actions performed by administrators.
- Search logs by user, action, or date.
- Monitor system activity and track changes made by administrators.
- Maintain system security and integrity through audit trails.

These features provide a comprehensive overview of the functionalities available to both customers and administrators within the Online Cafe Ordering System.

Deployment:

- Integrate with GitLab/GitHub(at least 50 meaningful commits)
- Deploy backend and frontend on free hosting services (Lexoya, Liara, GitHub pages , ...)
- Bingo: Dockerize project
- Bingo: Add CI/CD for automate deployment or test

Tables:

Customers:

Column Name	Data Type	Description
customer_id	INT	Unique identifier for customers
username	VARCHAR(50)	Username of the customer
email	VARCHAR(100)	Email address of the customer
phone_number	VARCHAR(15)	Phone number of the customer
registration_date	DATE	Date when the customer registered

Products:

Column Name	Data Type	Description
product_id	INT	Unique identifier for products
name	VARCHAR(100)	Name of the product
description	TEXT	Description of the product
price	DECIMAL(10,2)	Price of the product
category_id	INT	Foreign key referencing the category

Orders:

Column Name	Data Type	Description
order_id	INT	Unique identifier for orders
customer_id	INT	Foreign key referencing the customer
order_date	DATETIME	Date and time when the order was placed
total_amount	DECIMAL(10,2)	Total amount of the order
status	VARCHAR(20)	Status of the order (e.g., pending, shipped, delivered)

Order Details:

Column Name	Data Type	Description
order_detail_id	INT	Unique identifier for order details
order_id	INT	Foreign key referencing the order
product_id	INT	Foreign key referencing the product
quantity	INT	Quantity of the product ordered
unit_price	DECIMAL(10,2)	Unit price of the product

Categories:

Column Name	Data Type	Description
category_id	INT	Unique identifier for categories
name	VARCHAR(50)	Name of the category
description	TEXT	Description of the category
parent_category_id	INT	Reference to parent category, if applicable
created_at	DATETIME	Date and time when the category was created

Users:

Column Name	Data Type	Description
user_id	INT	Unique identifier for users
username	VARCHAR(50)	Username of the user
password_hash	VARCHAR(100)	Hashed password of the user
email	VARCHAR(100)	Email address of the user
role	VARCHAR(20)	Role of the user (e.g., admin, customer)

Payments:

Column Name	Data Type	Description
payment_id	INT	Unique identifier for payments
order_id	INT	Foreign key referencing the order
payment_method	VARCHAR(50)	Payment method used (e.g., credit card, PayPal)
amount	DECIMAL(10,2)	Amount paid for the order
payment_date	DATETIME	Date and time of the payment

Shipping Addresses:

Column Name	Data Type	Description
address_id	INT	Unique identifier for addresses
customer_id	INT	Foreign key referencing the customer
recipient_name	VARCHAR(100)	Name of the recipient
address_line1	VARCHAR(255)	Address line 1
address_line2	VARCHAR(255)	Address line 2 (optional)
city	VARCHAR(100)	City
state	VARCHAR(100)	State or province
postal_code	VARCHAR(20)	Postal code or ZIP code
country	VARCHAR(100)	Country

Feedback:

Column Name	Data Type	Description
feedback_id	INT	Unique identifier for feedback
customer_id	INT	Foreign key referencing the customer
order_id	INT	Foreign key referencing the order
rating	INT	Rating provided by the customer (1 to 5 stars)
comment	TEXT	Optional comment from the customer
feedback_date	DATETIME	Date and time when the feedback was submitted

Admin Logs:

Column Name	Data Type	Description
log_id	INT	Unique identifier for logs
user_id	INT	Foreign key referencing the user performing the action
action	VARCHAR(100)	Description of the action performed by the user
action_date	DATETIME	Date and time when the action was performed
ip_address	VARCHAR(50)	IP address of the user