

Website Planning for "Libro," the UMN Cafeteria

IS556 Web Design and Development

Class B - EN



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**INFORMATION SYSTEM STUDY PROGRAM
FACULTY OF ENGINEERING AND INFORMATICS
UNIVERSITAS MULTIMEDIA NUSANTARA**

2024

Introduction



Libro Cafe is a central gathering place at Multimedia Nusantara University, cherished for its inviting atmosphere and wide selection of coffees and snacks. Known for its strategic location at the main hall of B building and welcoming environment, the cafe has become a staple for students seeking a respite from their academic routines, offering a warm space to unwind, collaborate, and recharge during a hectic day. It stands as more than just a place to grab a quick bite; it's a venue where ideas are exchanged and friendships flourish.

Over the years, Libro Cafe has grown to embody the spirit of the university, intertwining itself with the daily lives of its patrons. Its reputation for quality service and its role as a community hub make it a prominent feature of campus life, frequented by students and faculty alike. The cafe's importance extends beyond serving food and beverages; it facilitates community building and provides a comforting sense of place within the university's dynamic setting.

Background

The increasing integration of technology into everyday life has led to heightened expectations for convenience and efficiency, especially in an academic environment like Multimedia Nusantara University. Students and faculty now look for quicker, more efficient ways to manage their time, which includes minimizing the time spent on activities like ordering and waiting for food. This shift has prompted the need for traditional food services like Libro Cafe to innovate and adapt to remain relevant and continue serving their community effectively.

In response to these evolving demands, the decision to develop a comprehensive website for Libro Cafe was made. This website is designed to streamline the ordering process through digital menu browsing and secure online ordering, complete with real-time order tracking. By moving these services online, the cafe aims to enhance the overall customer experience, reducing wait times and meeting the expectations of a tech-savvy customer base.

Moreover, the website supports operational efficiency, ensuring that Libro Cafe maintains its role as a vital part of the university landscape in an increasingly digital world.

Project Overview

The Libro Cafe website project is designed to transform the way the cafe interacts with its customers by integrating technology into its service delivery. This website serves as a comprehensive digital platform, facilitating a seamless connection between the cafe's offerings and the university community. The project encompasses several critical features, including a dynamic menu, a user-friendly ordering system, and an efficient order tracking interface, all tailored to enhance user satisfaction and operational efficiency.

Scope: The scope of the website extends beyond simple menu browsing. It includes detailed descriptions and pricing for each item, personalized account management for repeat customers, and options for both in-cafe pickup and campus-wide delivery. Additionally, the website features a history section where users can view their past orders and preferences, fostering a personalized interaction with the cafe. This broad scope is intended to cater to the diverse needs of a large university community, accommodating varying schedules and preferences.

Target Audience: The primary users of the Libro Cafe website are the students, faculty, and staff of Multimedia Nusantara University. The website's design and functionality consider the unique lifestyle of a university campus, where time is a valuable commodity. By providing a quick and easy method to order food, the website specifically addresses the needs of busy students and faculty members who appreciate the convenience of reducing wait times and having their food ready when they are. Additionally, the website aims to attract alumni and university visitors by offering a straightforward, welcoming user experience that reflects the friendly atmosphere of the cafe itself.

Goals and Objectives:

1. **Increase Order Frequency:** Aim to boost the number of orders placed through the website by making the ordering process more accessible and convenient for all users.
2. **Reduce Congestion During Peak Times:** Implement an efficient online ordering system to decrease physical queue lengths at the cafe, especially during busy periods such as between classes and at lunchtime.

3. **Enhance Customer Experience:** Provide a user-friendly interface and personalized account features that improve the ease and enjoyment of interacting with the cafe online.
4. **Improve Operational Efficiency:** Streamline cafe operations by integrating real-time data tracking and management systems that help optimize order preparation and delivery.
5. **Expand Customer Base:** Attract a broader audience, including alumni and university visitors, by offering an easy-to-navigate website that mirrors the welcoming atmosphere of the cafe.
6. **Gather Data for Menu Optimization:** Utilize customer order data to analyze preferences and trends, which will inform future menu adjustments and marketing strategies.

Design and Development

The design of the Libro Cafe website is intentionally aligned with the visual identity of Multimedia Nusantara University, utilizing a color palette dominated by various shades of blue which echo the university's own branding and architectural design. This cohesive aesthetic helps to reinforce the cafe's connection to the university community, making the digital experience feel like a natural extension of the physical campus environment. The soothing blue tones, which are also a part of the university's logo and featured prominently across its campus buildings, contribute to a sense of familiarity and belonging among users.

To ensure the website is both visually appealing and functionally efficient, the development team employed modern web technologies such as HTML5, CSS3, and PHP. The responsive design guarantees that the website operates seamlessly across a variety of devices and screen sizes, accommodating the diverse tech landscape of the university's student body and staff. This adaptive design approach enhances user interaction by providing a consistently smooth experience, which is crucial for maintaining engagement in a fast-paced academic setting.

Interactive elements of the website, like the dynamic menu system, are designed to be intuitive and user-friendly. Features such as filter options, search bars, and guided tooltips facilitate an effortless navigation and ordering process, particularly beneficial for new users. The back-end is robustly built on real-time database management technologies that efficiently

handle updates to the menu and order tracking. This system is crucial for managing the high volume of transactions expected during peak cafe hours, ensuring that the website remains fast and responsive at all times.

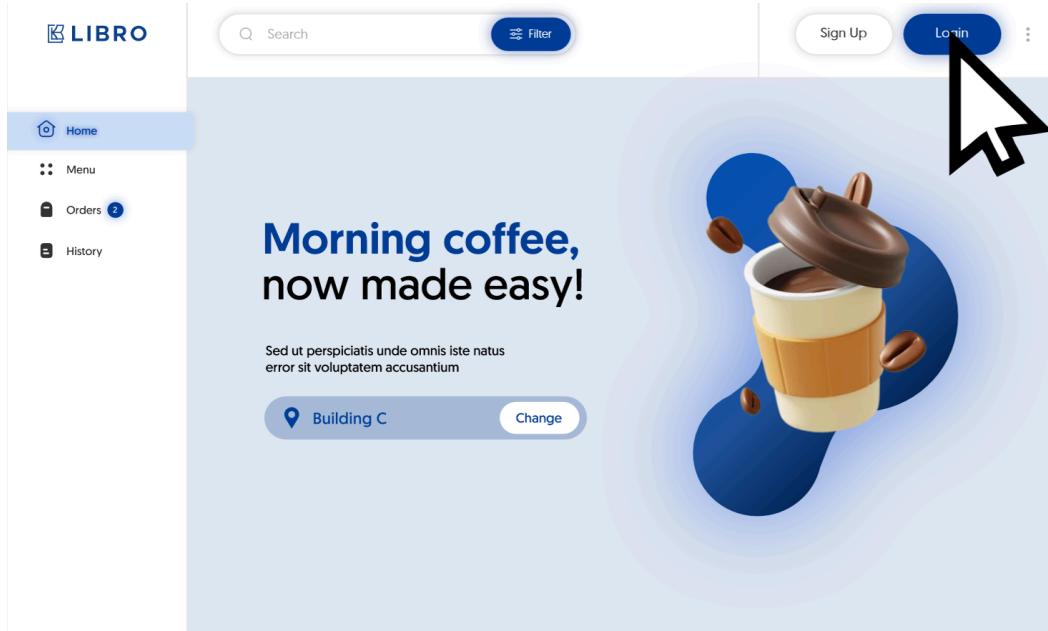
Storyboard



User is craving for coffee/tea from Libro



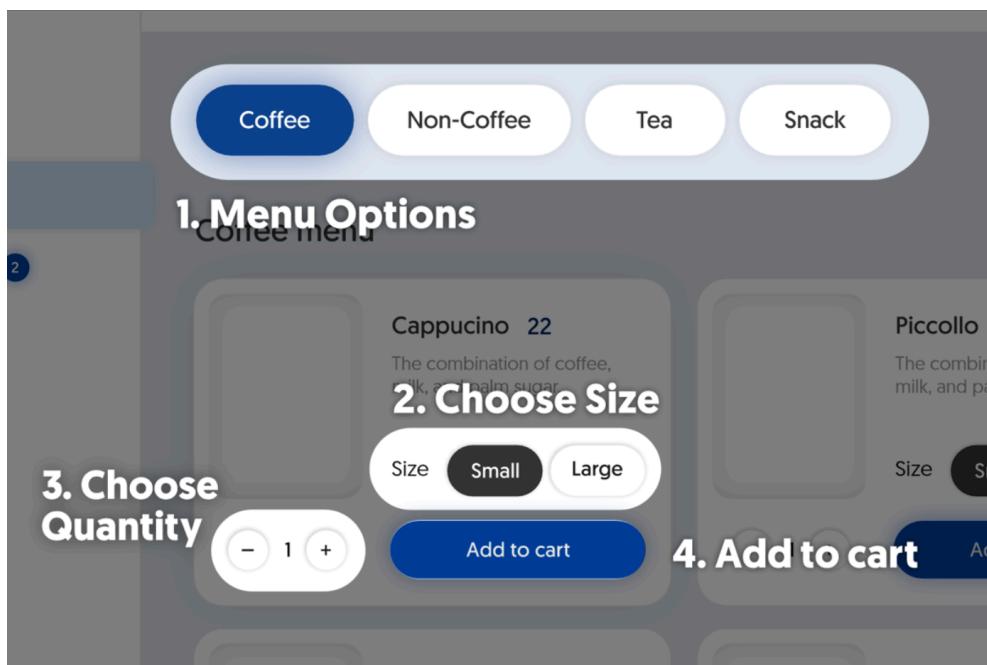
User open a libro website



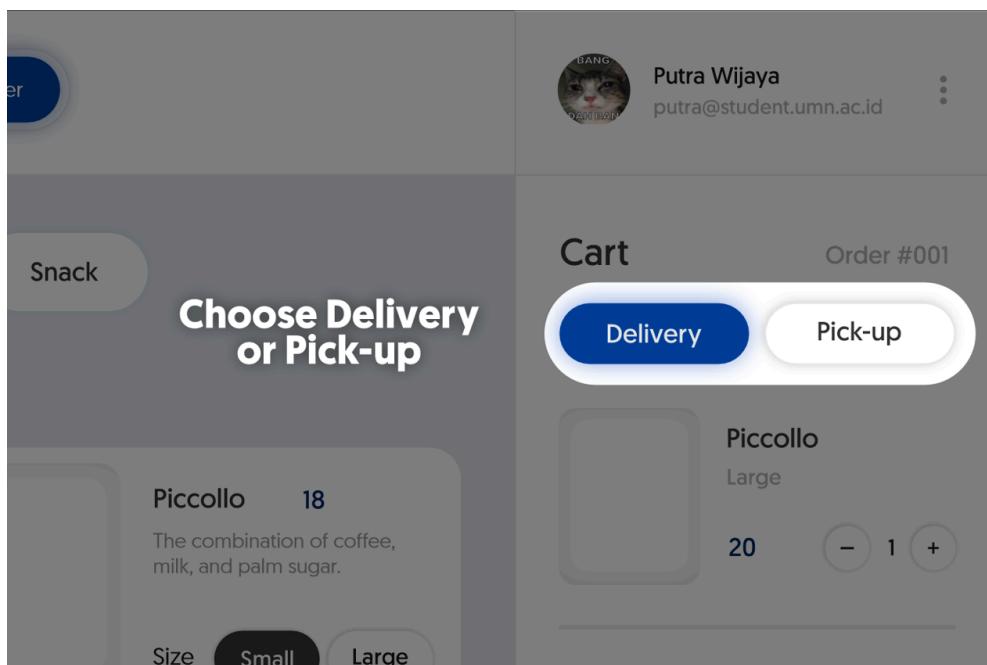
User try to login, from the Libro website

The screenshot shows the Libro website with the 'Menu' option selected in the sidebar. The main content area displays the 'Coffee menu' with four items: Cappuccino (22), Piccolo (18), Americano (18), and Latte (20). Each item has size options (Small, Large) and an 'Add to cart' button. To the right, a 'Cart' section shows an order for 'Order #001' with two items: 'Piccolo' (Large, 20) and 'Americano' (Large, 20). The total cost is listed as 44.000,00. A 'Place an order' button is at the bottom of the cart section. A large black cursor arrow points towards the 'Menu' link in the sidebar.

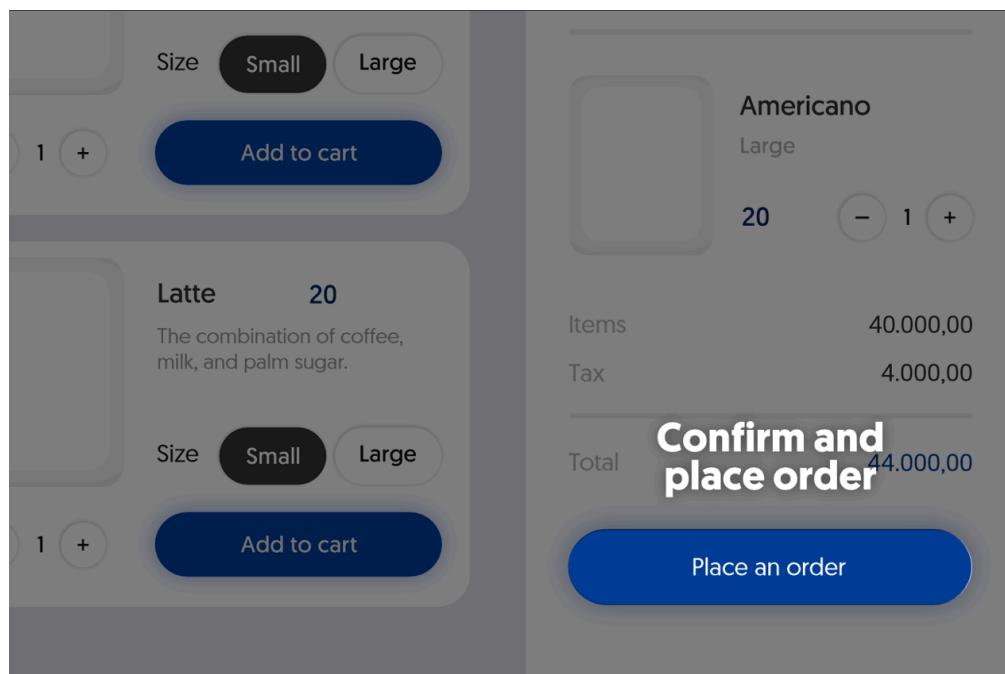
User browsing the coffee menu



User choose, what he want (coffee, non-coffee, tea, and snack), Choose quantity, Choose size (small/large), and add to the cart.



User choose, want delivery or pick-up.



User confirm the order and place the order.



User using qrис for the payment, so the website will give the qr.



The barista will now make the coffee

LIBRO

Tracking No.
#0102937

Putra Wijaya
putra@student.umn.ac.id

Home

Menu

Orders (2)

History

Your order is

Delivered
as on 10:35, 20 Sept 2024

Last updated on 11:00, 20 Sept 2024

Report Order

Cancel Order

For more information
[Contact us](#)

Order No.
Order #001

Customer Name
Putra Wijaya

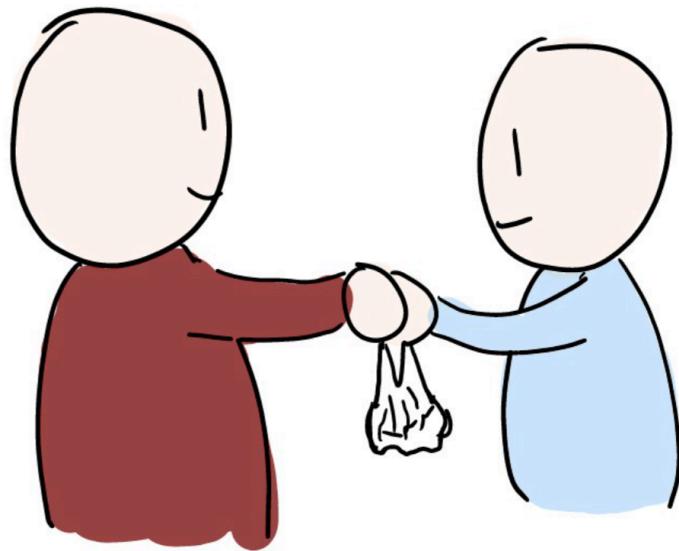
Customer Contact
081-9832-99823

Delivery Destination
Lecture Theatre, Building D

Tracking History

Time	Date	Status	Notes
10:15 PM	20 Sept 2024	Delivered	Received by customer Putra Wijaya
10:15 PM	20 Sept 2024	Out for Delivery	Sent by server Ahmad Maulana
10:15 PM	20 Sept 2024	Order Confirmed	Order confirmed by server Ahmad Maulana
10:15 PM	20 Sept 2024	Order Received	Order received by system

User can see the detail of the delivery.



The barista had delivered the coffee



Now the user can enjoy the coffee/tea

Wireframe Diagram

LIBRO

Search Filter

Sign Up Login

Home Menu Orders History

Morning coffee, now made easy!

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium

Building C Change

LIBRO

Search Filter

Putra Wijaya putra@student.umn.ac.id

Home Menu Orders History

Coffee Non-Coffee Tea Snack

Coffee menu

	Cappuccino 22 The combination of coffee, milk, and palm sugar.	Size	Small	Large	<input type="button" value="Add to cart"/>
	Piccolo 18 The combination of coffee, milk, and palm sugar.	Size	Small	Large	<input type="button" value="Add to cart"/>
	Cappuccino 22 The combination of coffee, milk, and palm sugar.	Size	Small	Large	<input type="button" value="Add to cart"/>
	Piccolo 18 The combination of coffee, milk, and palm sugar.	Size	Small	Large	<input type="button" value="Add to cart"/>

Cart Order #001

Delivery Pick-up

Piccolo Large
20

Americano Large
20

Items 40.000,00
Tax 4.000,00
Total 44.000,00



Tracking No.
#0102937

Putra Wijaya
putra@student.umn.ac.id

- Home
- Menu
- Orders
- History

Your order is
Delivered
as on 10.35, 20 Sept 2024
Last updated on 11.00, 20 Sept 2024

Report Order
 Cancel Order
For more information
[Contact us](#)

Order No.
Order #001
Customer Name
Putra Wijaya
Customer Contact
081-9832-99823
Delivery Destination
Lecture Theatre, Building D

Tracking History

10:15 PM 20 Sept 2024	<input type="radio"/>	Delivered Received by customer Putra Wijaya
10:15 PM 20 Sept 2024	<input type="radio"/>	Out for Delivery Sent by server Ahmad Maulana
10:15 PM 20 Sept 2024	<input type="radio"/>	Order Confirmed Order confirmed by server Ahmad Maulana
10:15 PM 20 Sept 2024	<input type="radio"/>	Order Received Order received by system



Search

Filter

Putra Wijaya
putra@student.umn.ac.id

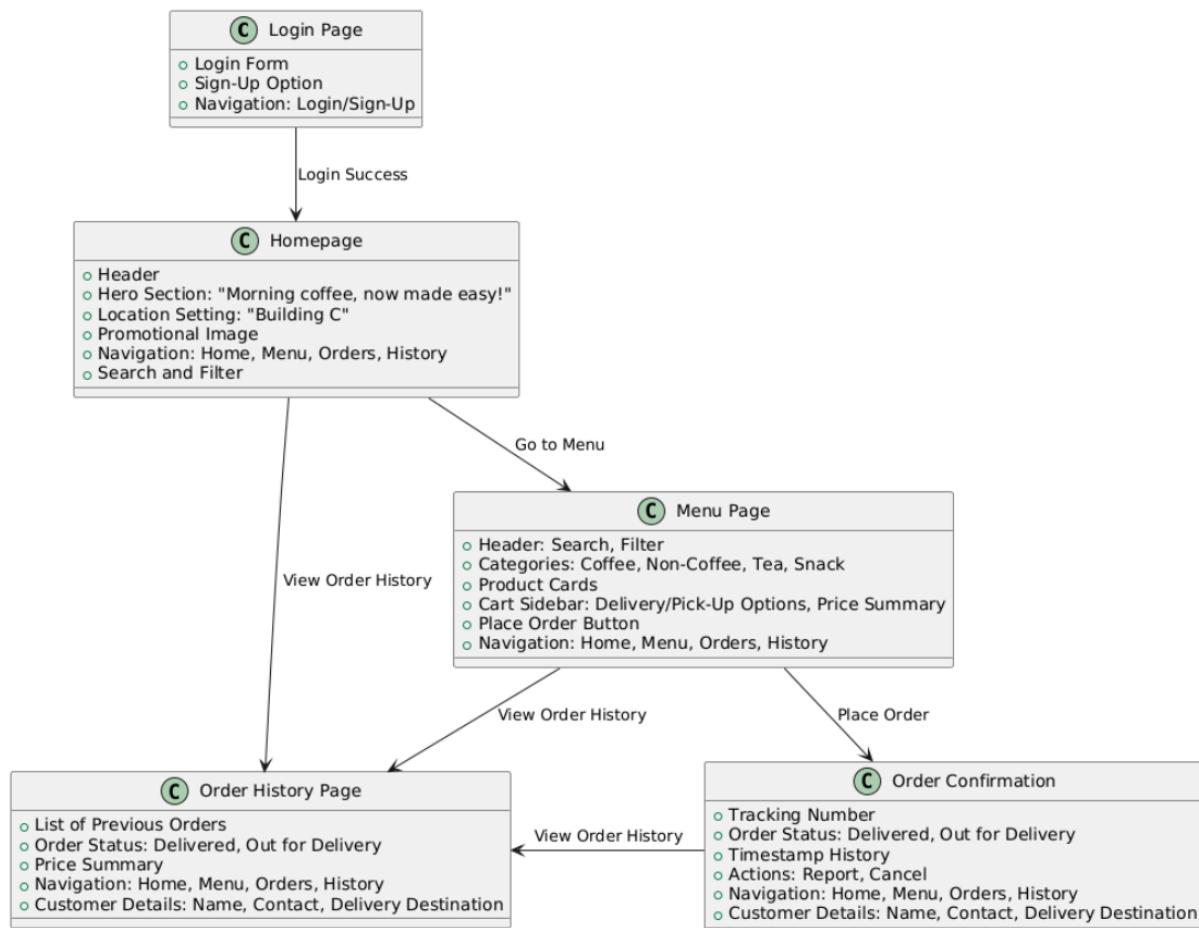
- Home
- Menu
- Orders
- History

	Americano + 3 more items 63.000,00 20 Sept 2024	Delivered Out for Delivery Order Confirmed
	Cappuccino + 1 more items 44.000,00 18 Sept 2024	Delivered Out for Delivery Order Confirmed
	Cappuccino Large 42.500,00 10 Sept 2024	Delivered Out for Delivery Order Confirmed

Order No.
Order #001
Customer Name
Putra Wijaya
Customer Contact
081-9832-99823
Delivery Destination
Lecture Theatre, Building D

Site Diagram

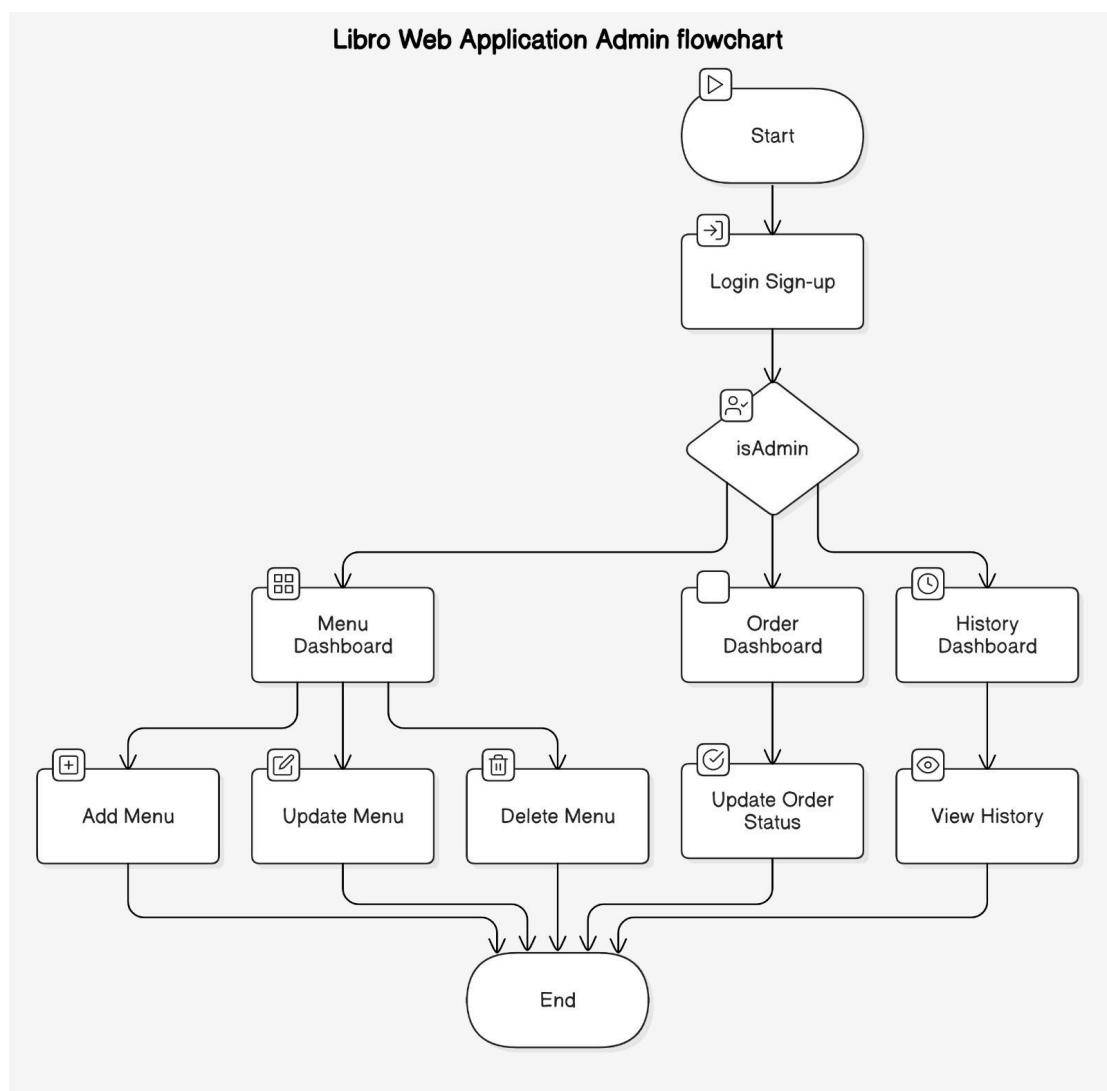
The provided site diagram outlines the structural and functional flow of the Libro Cafe website, showcasing the key pages and user interactions. Beginning with the Login Page, users can access personalized features via a sign-up or login process. Upon successful login, users are directed to the Homepage, which acts as the central hub for navigation, featuring a welcoming hero section, location-specific settings, and quick links to essential features such as the Menu Page, Order History Page, and Order Confirmation Page. The Menu Page allows users to browse categories, customize orders, and proceed with checkout options, while the Order History Page provides a detailed summary of previous transactions. The Order Confirmation Page tracks the status of current orders and offers actions like reporting or canceling. This site diagram effectively captures the streamlined and user-friendly design of the website, ensuring an intuitive navigation experience for all users.



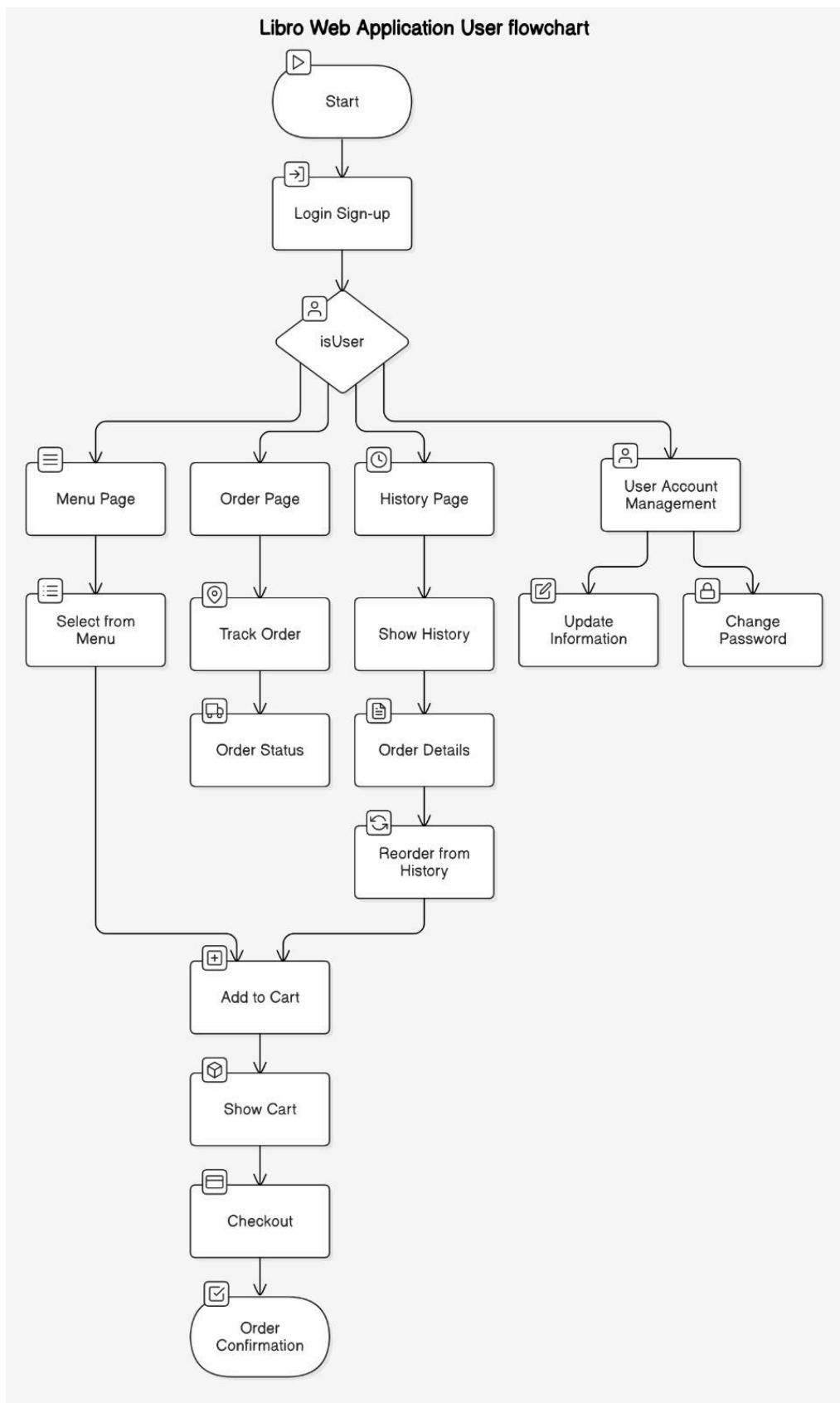
User Flowchart

This flowchart provided illustrates the user journey for interacting with the Libro Cafe website, detailing the various steps involved in accessing, navigating, and utilizing the platform's features. Starting from the homepage, users are guided through options such as login/sign-up, menu browsing, order placement, and history review. The diagram showcases the seamless flow between key functionalities, including selecting food items, customizing orders, tracking order statuses, and reordering from past purchases. Additionally, it highlights user interactions with auxiliary features such as feedback forms and contact options, ensuring a comprehensive and user-friendly experience. This structured approach reflects the website's commitment to intuitive design and efficient service delivery.

Flowchart for admin :



Flowchart for user :



Design Mock-Up

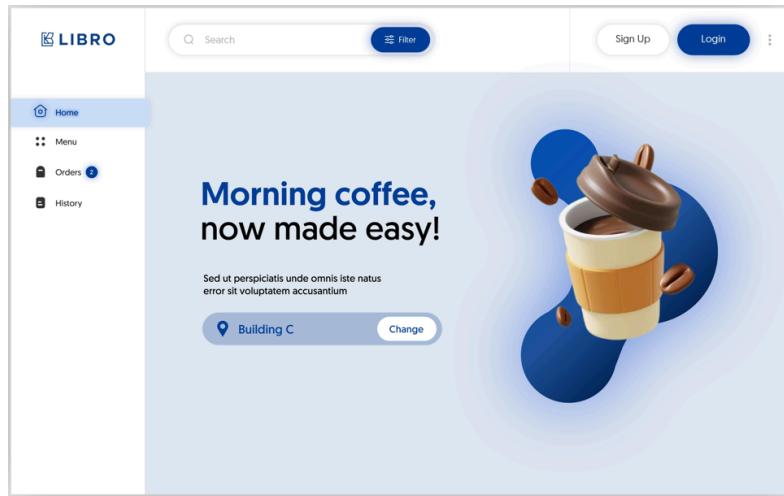


Figure 1: Homepage

The homepage of the Libro Cafe website, as illustrated in the provided screenshot, combines a clean, intuitive design with functional features that enhance user experience. Here's a detailed description:

Layout and Visual Design: The homepage features a clean and contemporary design, utilizing a soothing blue color scheme that aligns with Multimedia Nusantara University's branding. The top portion of the homepage prominently displays the Libro logo on the left, signaling the cafe's brand identity. Adjacent to the logo are the user interaction buttons for "Sign Up" and "Login," positioned on the top right corner, offering easy access for users to manage their accounts.

Navigation Menu: On the left side of the screen, there's a vertical navigation menu with icons, making it easy for users to understand and navigate through the website. The menu includes links to the Home, Menu, Orders, and History pages, which are essential for navigating the core functionalities of the site. This sidebar remains visible, providing constant access to these sections as users browse the website.

Main Banner: The central element on the homepage is a large, eye-catching banner with the slogan "Morning coffee, now made easy!" This feature immediately engages visitors and communicates the core message of convenience. Accompanying the text is a dynamic graphic of a spinning coffee cup with coffee beans, which adds a playful and inviting touch to the

page. Below the slogan, there is a brief placeholder text that likely serves as a welcoming message or description of the cafe's mission.

Location Feature: Beneath the main banner, there's a practical "Building C" location button with a "Change" option, suggesting that the website offers location-specific services or menus. This could be particularly useful for users who are on different parts of the campus and want to order from a location nearest to them, enhancing the service's accessibility and customization.

Search and Filter Functionality: At the top of the homepage, just below the header, there's a search bar accompanied by a filter icon, enabling users to quickly find specific items or filter the menu according to their preferences. This functionality is crucial for enhancing user experience by allowing efficient navigation through the cafe's offerings.

Footer Section: While not visible in the provided screenshot, the footer section typically contains additional links, contact information, and legal disclaimers. This section would likely provide users with further resources about the cafe, such as social media links, contact details, or an FAQ section.

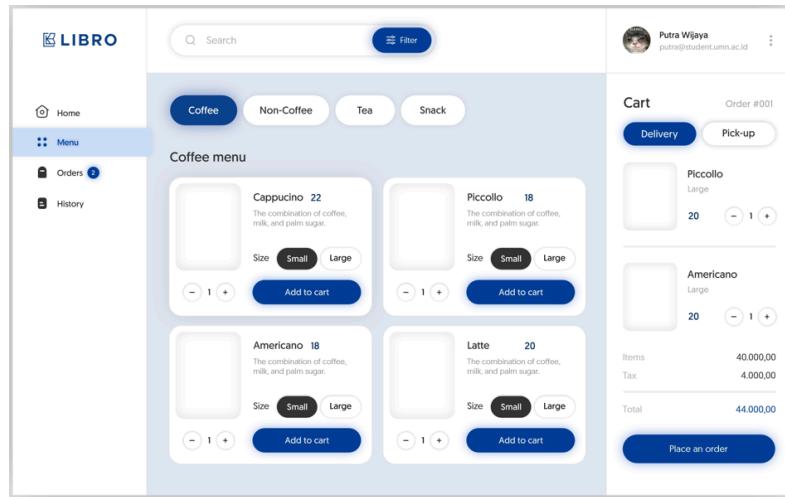


Figure 2: Menu Page

The menu page of the Libro Cafe website, as displayed in the provided screenshot, is designed to offer a streamlined and user-friendly experience for selecting and ordering food and beverages. Here is a detailed description of the layout and functionalities observed:

Layout and Visual Design: The menu page features a clean, minimalist design that utilizes a consistent blue and white color scheme, maintaining the visual identity established on the homepage. The page layout is divided into two main sections: the menu selection area on the left and the cart summary on the right. This design allows users to browse and select items while simultaneously reviewing their cart, enhancing the efficiency of the ordering process.

Menu Selection Area:

- **Category Tabs:** At the top of the menu section, there are tabs labeled Coffee, Non-Coffee, Tea, and Snack. These tabs allow users to easily navigate between different categories of the menu. The active tab, in this case, "Coffee," is highlighted in blue, indicating that the coffee menu is currently displayed.
- **Product Listings:** Each product within the Coffee category is presented in its own card with a soft shadow for a subtle depth effect. The product cards are uniformly styled and contain essential information:
 - **Name and Price:** Each card displays the name of the beverage (e.g., Cappuccino, Piccolo, Americano, Latte) and its price, making it clear and straightforward for users to find what they want at a glance.
 - **Description:** A brief description provides insight into the composition of each beverage, enhancing customer knowledge and aiding in decision-making.
 - **Size Selection:** Users can choose between Small or Large sizes for each beverage directly within the card.
 - **Quantity Selector:** A quantity selector with plus and minus buttons allows users to specify how many of each item they wish to order.
 - **Add to Cart Button:** A prominent "Add to Cart" button on each card enables quick and easy addition of selected items to the cart.

Cart Summary:

1. **User Details:** The cart section prominently displays the user's name and email at the top, personalizing the experience.
2. **Order Review:** This area lists all items currently in the cart, showing the name, size, and price of each, along with the ability to adjust quantities directly in the cart.

3. **Pricing Details:** Below the item list, the subtotal, tax amount, and total cost are clearly itemized, providing transparency about the total expenditure before placing the order.
4. **Delivery Options:** Users can toggle between Delivery and Pick-up options, allowing them flexibility depending on their preference or availability.
5. **Checkout Button:** A large "Place an order" button is provided, standing out in a contrasting color to draw attention and prompt action once the user is ready to finalize their order.

This menu page is designed with a focus on user convenience, offering a smooth navigation and ordering process that minimizes clicks and maximizes efficiency. The layout and features are tailored to enhance user experience, ensuring that customers can easily browse, customize, and order their preferred drinks and snacks with minimal effort.

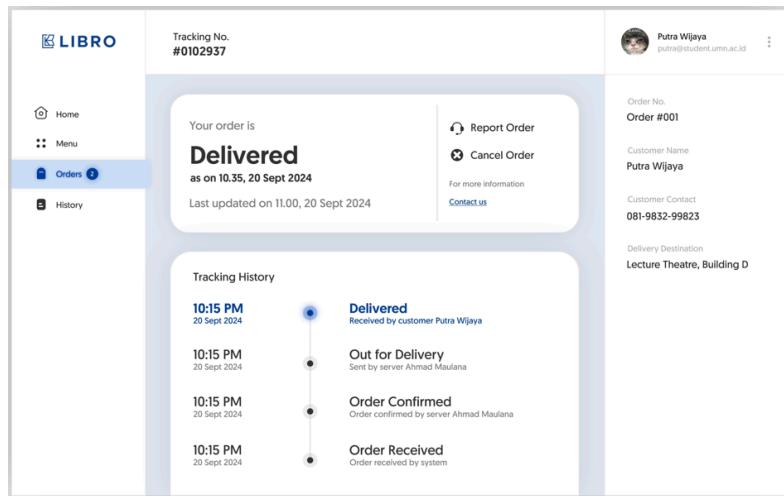


Figure 3: Orders Page

The Orders page of the Libro Cafe website, as shown in the provided screenshot, is specifically designed to offer users a comprehensive overview of their order status, complete with tracking details and options for additional actions such as reporting or canceling the order. Here's a detailed description:

Layout and Visual Design: The Orders page maintains the same clean and consistent design seen throughout the website, utilizing the familiar blue and white color scheme. The layout is organized into three main sections: the order status information, tracking history, and order details.

Order Status Information:

1. **Status Update:** The page prominently displays the current status of the order at the top, in this case, "Delivered," along with the exact time of the update (10:35 AM, 20 Sept 2024). Below the status, there is a timestamp showing the last update time (11:00, 20 Sept 2024), providing clarity on the timing of the delivery completion.
2. **Action Buttons:** Below the status update, two buttons, "Report Order" and "Cancel Order," offer users quick access to manage their order if necessary. These are accompanied by a "Contact us" link for users seeking additional assistance or information.

Tracking History:

1. **Timeline:** The central part of the Orders page features a vertical timeline that details the tracking history of the order. This includes timestamps for each significant event:
 - **10:15 PM:** The order was received by the system.
 - **10:15 PM:** The order was confirmed by server Ahmad Maulana.
 - **10:15 PM:** The order was sent out for delivery.
 - **10:15 PM:** The delivery status was updated to "Delivered," received by customer Putra Wijaya.
2. **Visual Cues:** Each step in the tracking history is marked with a circular icon, visually guiding the user through the progress of their order from confirmation to delivery.

Order Details:

- **Customer Information:** On the right side of the page, there is a section dedicated to specific details of the order:
 1. **Order Number:** "#001" is displayed at the top, clearly identifying the order.
 2. **Customer Name:** "Putra Wijaya" is listed to personalize the order.
 3. **Contact Information:** A phone number is provided, allowing for easy contact if needed.
 4. **Delivery Destination:** The destination "Lecture Theatre, Building D" specifies where the order was delivered, useful for verifying the correct location.

This Orders page is meticulously designed to not only provide all necessary information regarding an order's status and details but also to empower users with the ability to manage their orders post-purchase through a user-friendly interface. This functionality enhances customer satisfaction by ensuring transparency and control over the order process.

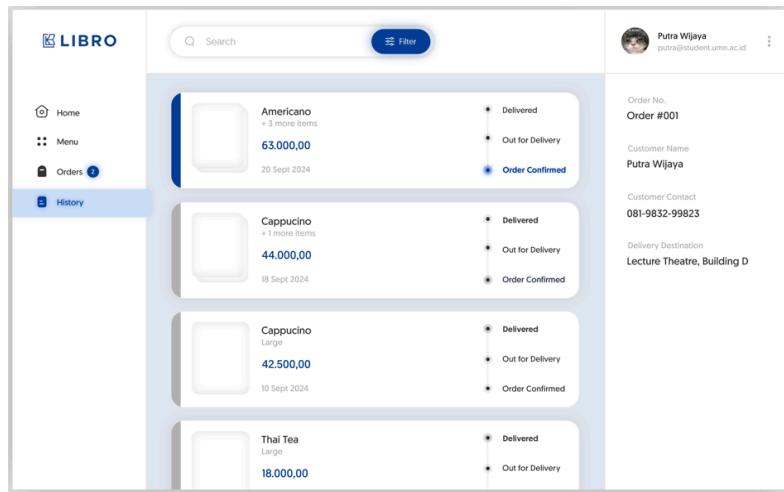


Figure 4: History Page

The History page on the Libro Cafe website, as depicted in the provided screenshot, is designed to provide users with a comprehensive view of their past orders. This feature is instrumental in enhancing user experience by allowing easy reference and reordering of favorite items. Here's a detailed description of this page:

Layout and Visual Design: The History page maintains the same clean, minimalistic design seen throughout the website, with a consistent color scheme and an easy-to-navigate layout. The page is divided into a main panel displaying the order history and a sidebar for navigation.

Order History List:

- List Structure:** The main area of the History page lists each past order as a separate card, providing a tidy and efficient summary of each transaction.
- Order Details:** Each card displays:
 - Items Ordered:** The primary item is listed along with a note indicating additional items if more than one product was ordered (e.g., "Americano + 3 more items").

2. **Total Price:** The total cost of the order is clearly displayed next to the items, making it easy to see how much was spent on each visit.
 3. **Order Date:** The date of the order is noted under the price, helping users track their purchasing habits over time.
- **Status Indicators:** To the right of each order detail, a vertical progress indicator shows the status of each order (Delivered, Out for Delivery, Order Confirmed). This visual cue helps users quickly identify the status of their orders at a glance.

Interactive Elements:

1. **Reordering Capability:** Although not explicitly shown in the screenshot, typically, history pages include functionality to reorder favorite items directly from this overview, enhancing user convenience.
2. **Detailed View:** Users can click on any order card to expand the details. This might include a breakdown of each item ordered, specific customization options chosen at the time, and payment methods used.

Navigation and Usability:

1. **Sidebar:** The left sidebar allows for easy navigation back to other sections of the site, such as the Home, Menu, or Orders page. This sidebar is consistent across the website, providing a cohesive user experience.
2. **Search and Filter Options:** The top of the page includes a search bar and a filter button, enabling users to quickly find specific past orders based on keywords or filter by date, price, or other criteria.

The History page is a vital component of the website, providing users with a useful tool to review their past interactions, monitor their spending, and quickly revisit their favorite items. This functionality not only enhances the user experience but also encourages repeat business by simplifying the process of reordering preferred beverages and snacks.

Content

Menu Information: The Libro Cafe website features an organized and user-friendly menu display that categorizes offerings into sections such as Coffee, Non-Coffee, Tea, and Snacks, each easily accessible through a clear tabbed interface on the homepage. Each menu item is

visually presented with a crisp, modern graphic representation or photo, along with a brief description highlighting the unique aspects of the product. For example, the Americano is described succinctly as "the core essence of coffee, rich, deep, and velvety," and each item includes size options and the ability to add to the cart directly from the menu page. This streamlined approach helps users quickly navigate through their options, making the ordering process efficient and straightforward.

Additional Content: Beyond the standard menu, the Libro Cafe website enriches the user experience with dynamic content that promotes engagement. The site features a responsive blog section that updates regularly with posts related to cafe culture, such as detailed articles on coffee origins, brewing techniques, and seasonal drink recommendations. This section not only educates visitors but also builds a deeper connection with the brand. Additionally, an 'Events and Promotions' area showcases timely events and special offers, like discount days or themed cafe nights, which are prominently displayed through interactive banners on the homepage. These banners are designed to catch the user's eye immediately upon visiting the site, ensuring that no special offer or event goes unnoticed.

Website Features: The mock-up reveals several key features designed to enhance the user interface and experience:

- **Real-time Order Tracking:** A detailed tracking system for orders shows the progress from preparation to delivery, including timestamps for each step.
- **User Profile Management:** Users can create profiles to manage their orders, save favorite items, and access their order history.
- **Dynamic Search and Filter Options:** A search bar with filter capabilities allows users to find their preferred items based on specific criteria such as drink type, price range, or dietary needs.
- **Interactive Cart and Checkout Process:** The cart section is interactive, allowing users to modify quantities, choose between delivery or pickup, and securely check out from the same page.

User Interaction and Experience

The navigation structure of the Libro Cafe website is intuitively designed to facilitate easy and efficient user flow across different sections, ensuring a seamless experience:

1. **Main Navigation Bar:** Located at the top of every page, it includes links to Home, Menu, Orders, and History, which are clearly delineated and accessible from every part of the website. This persistent navigation allows users to quickly switch between viewing the menu, checking their orders, and reviewing their order history.
2. **Sidebar Menu:** For mobile users, the sidebar menu condenses the main navigation elements into a collapsible menu, optimizing space while maintaining accessibility.
3. **Interactive Tabs and Buttons:** Within the Menu page, items are organized under tabs categorized by type (Coffee, Non-Coffee, Tea, Snack), making it straightforward for users to find and browse products of interest.

Effective user feedback mechanisms are crucial for enhancing the Libro Cafe website and ensuring it meets customer expectations. The website incorporates a structured feedback system that includes a user-friendly contact form, interactive reviews, and targeted surveys, allowing customers to easily share their experiences and suggestions. These tools not only facilitate direct communication with the cafe management but also enable continuous improvement of the service based on user input. Through this proactive approach, Libro Cafe aims to foster a responsive and customer-centric online environment.

1. **Contact Form:** A dedicated contact form is accessible via the footer of every page, allowing users to easily reach out with inquiries or feedback.
2. **Survey Links:** Periodic surveys are deployed to gather user feedback on their experience, especially after completing orders. These surveys are linked at the end of the ordering process and occasionally sent via email to registered users.
3. **Review and Rating System:** Users can rate and review the items they have ordered directly on the menu page. This not only aids other customers in making informed decisions but also provides the cafe with direct product-specific feedback.

Challenges and Solutions

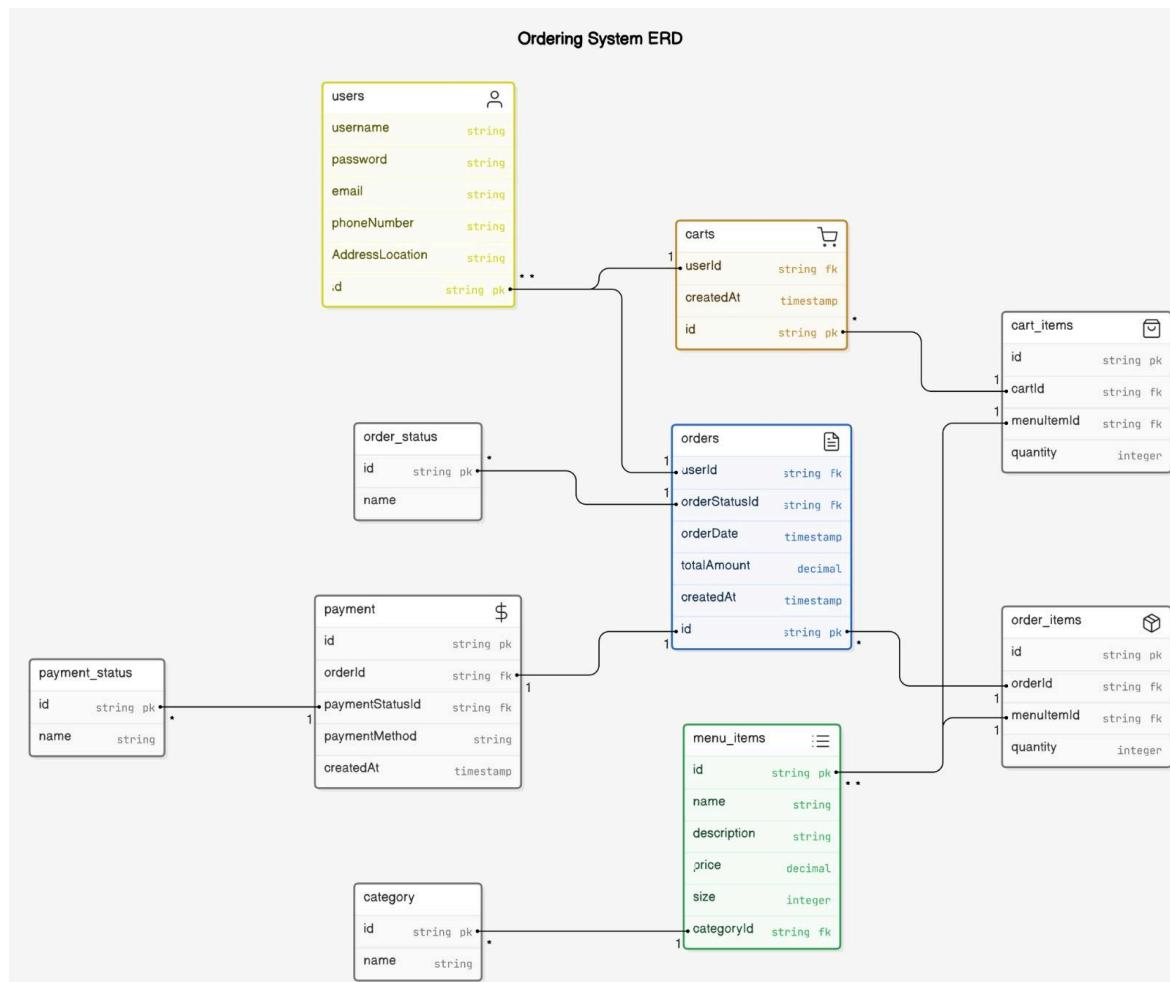
- Encountered Challenges: List any significant challenges faced during the project (e.g., integrating the reservation system).
- Implemented Solutions: Describe the solutions implemented to overcome these challenges.

Future Enhancements

- Planned Upgrades: Outline potential future enhancements (e.g., mobile app integration, loyalty programs).
- Feedback Implementation: How user feedback will be used to improve the website.

ER Diagram

The provided Entity-Relationship (ER) diagram illustrates the database design for the Libro Cafe website, showcasing the relationships between key entities such as User, Order, Order Details, Payment, and Product. Each entity is represented with its respective attributes, with primary keys (PK) ensuring uniqueness and foreign keys (FK) establishing connections between tables. The User table stores customer details, while the Order table captures transaction records linked to users. The Order Details table breaks down specific items within an order, linking to the Product table, which defines item attributes. The Payment table records financial transactions, ensuring traceability and transparency. This database structure is optimized to handle the website's functionalities, including user management, order processing, and payment tracking, supporting seamless operations and data consistency.



Entities and Attributes

1. Users Attributes:

- username: User's name (string).
- password: Encrypted password (string).
- email: User's email (string).
- phoneNumber: Contact number (string).
- AddressLocation: User's address (string).
- id: Unique identifier (primary key).

2. Carts Attributes:

- userId: Foreign key linking to users (string).
- createdAt: Timestamp of cart creation.
- id: Unique identifier (primary key).

3. Cart Items Attributes:

- cartId: Foreign key linking to carts (string).
- menuItemId: Foreign key linking to menu_items (string).
- quantity: Number of items (integer).
- id: Unique identifier (primary key).

4. Orders Attributes:

- userId: Foreign key linking to users (string).
- orderStatusId: Foreign key linking to order_status (string).
- orderDate: Timestamp of the order.
- totalAmount: Total cost (decimal).
- createdAt: Timestamp of order creation.
- id: Unique identifier (primary key).

5. Order Items Attributes:

- orderId: Foreign key linking to orders (string).
- menuItemId: Foreign key linking to menu_items (string).
- quantity: Number of items (integer).
- id: Unique identifier (primary key).

6. Menu Items Attributes:

- name: Name of the menu item (string).
- description: Item description (string).
- price: Price per unit (decimal).
- categoryId: Foreign key linking to categories (string).
- id: Unique identifier (primary key).

7. Categories Attributes:

- name: Name of the category (string).
- id: Unique identifier (primary key).

8. Order Status Attributes:

- name: Status description (e.g., pending, completed) (string).
- id: Unique identifier (primary key).

9. Payment Attributes:

- orderId: Foreign key linking to orders (string).
- paymentStatusId: Foreign key linking to payment_status (string).
- paymentMethod: Method of payment (e.g., card, cash) (string).
- createdAt: Timestamp of payment creation.
- id: Unique identifier (primary key).

10. Payment Status Attributes:

- name: Status description (e.g., paid, failed) (string).
- id: Unique identifier (primary key).

Relationships

- Users and Carts: A user can have one cart, but a cart belongs to only one user.
- Carts and Cart Items: A cart can contain multiple items, and each cart item is linked to a menu item.
- Users and Orders: A user can place multiple orders, and each order is linked to a user.
- Orders and Order Items: An order can contain multiple items, and each item is linked to a menu item.
- Menu Items and Categories: Each menu item belongs to one category.

- Orders and Order Status: Each order has a status that tracks its progress (e.g., pending, shipped).
- Orders and Payment: Each order has one payment record.
- Payment and Payment Status: Each payment has a status (e.g., successful or failed).

Relevance to SDG 8: Decent Work and Economic Growth

The Sustainable Development Goals (SDGs) are a global framework established by the United Nations to achieve a better and more sustainable future for all. SDG 8 focuses on promoting sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all. The UMN Café online ordering website aligns with SDG 8 by fostering economic opportunities and supporting local business growth within the campus community. These are some points that this website aligns with SDG *.

1. **Boosting Economic Activity:** The platform encourages more frequent purchases by providing a convenient and accessible way for students to buy food and beverages, increasing the café's revenue.
2. **Creating Job Opportunities:** The delivery service associated with the platform can create new part-time or full-time jobs for students or dedicated staff.
3. **Enhancing Operational Efficiency:** Digital payments via QRIS and streamlined order management reduce manual errors, saving time and resources, which ultimately supports sustainable economic practices.
4. **Encouraging Entrepreneurship:** This project serves as a model of how technology-driven entrepreneurship can enhance economic activity in localized settings, inspiring similar initiatives within the university.

Libro online ordering website is more than a convenience tool, it is a driver of economic growth within the campus ecosystem. By promoting frequent transactions, creating jobs, and supporting efficient operations, the project aligns with the principles of SDG 8. This demonstrates how small-scale technological innovations can contribute to broader goals of economic sustainability and development.

Website Result

Libro

Home Menu Order History

Search menu items... Search

Morning Coffee,
now made easy!

Order your favorite coffee from the comfort of your class.



Libro

Home Menu Order History

Search menu items... Search

Menu

All Coffee Non-Coffee Tea Snacks

Image	Name	Description	Price
	rerum	Non-Coffee Nisi qui facere voluptates non.	22.68
	quia	Non-Coffee (Ilo illo Impedit qui autem.	29.72
	unde	Non-Coffee Eum soluta consequatur cupiditate adipisci.	34.55
	sunt	Coffee Est magnam minus cupiditate quia ut et qui deserunt.	77.27
	sint	Non-Coffee Numquam non iusto preferendis sit atcumenda non facere.	71.32
	voluptatem	Snacks Dolorem aut est quoiquam hic tempora aspernatur.	33.61

Order No. 8

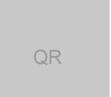
Delivery Pick Up

Address: Enter your address

Cart is empty

Subtotal: 0.00
Tax (10%): 0.00
Delivery: 5.00
Total: 5.00

Payment Method: QR



Libro

Home Menu Order History

Search menu items... Search

Your Order is **Received**
Order at: 14:37 11.12.2024
Last updated 1 minute ago

Tracking History

Received Confirmed Preparing Delivering Delivered

Your Order is **Received**
Order at: 14:36 11.12.2024
Last updated 3 minutes ago

Tracking History

Received Confirmed Preparing Delivering Delivered

Order Summary

Customer Name: test
Customer Contact: 0123456789

Libro

Home Menu Order History

Search menu items... Search

Order History

Received

Image	Name	Description	Quantity	Total amount:	Order No:
	rerum	Non-Coffee	22.68	\$4.56	Order No 5
	quia	Non-Coffee	29.72	\$5.94	
	unde	Non-Coffee	34.55	\$7.91	
	sunt	Coffee	77.27	\$15.45	
	sint	Non-Coffee	71.32	\$14.26	
	voluptatem	Snacks	33.61	\$6.72	

Order at: 14:37 11.12.2024 Last updated 2 minutes ago

Order Summary

Customer Name: test
Customer Contact: 0123456789

Admin

Menu

Image	Name	Type	Price	Description	Action
	Espresso	Coffee	2.50	A classic single shot of rich espresso.	Actions
	Cappuccino	Coffee	3.50	Espresso with steamed milk and foam.	Actions
	Latte	Coffee	4.00	Smooth espresso with steamed milk.	Actions
	Moda	Coffee	4.50	Espresso with chocolate and steamed milk.	Actions
	Americano	Coffee	2.75	Espresso diluted with hot water.	Actions
	Flat White	Coffee	3.75	Espresso with steamed milk and microfoam.	Actions
	Caramel Macchiato	Coffee	4.25	Espresso with caramel and steamed milk.	Actions
	Cold Brew	Coffee	3.25	Smooth cold coffee brewed over time.	Actions
	Affogato	Coffee	4.75	Espresso poured over vanilla ice cream.	Actions

Order History

Image	Item	Quantity	Total amount:	Delivery Address:
	officia	1	74.42	
	iure	2		
	voluptates	4		
	voluptatum	2	732.88	

Order Summary

Total Amount:	753.36
Total Orders:	2

Today Order

Image	Item	Quantity	Order No:	Status
	officia	1	1	Received
	iure	2		
	voluptates	4		
	voluptatum	2	2	

Update Status

Conclusion

The Libro Cafe website is a strategic response to the university community's growing needs, combining technology with user-friendly design. The primary goal of this website is to improve the customer experience by providing a user-friendly, efficient, and engaging platform for ordering food and beverages. This website improves operational efficiency by

using intuitive navigation, a dynamic menu, real-time order tracking, and user profile management to address the time constraints that students, faculty, and staff face.

The design process prioritized aligning the site with the university's visual identity, resulting in a consistent and user-friendly experience. By incorporating features such as search and filtering functions, an interactive booking system, and personalized user accounts, the website not only meets the practical needs of its audience but also fosters a stronger connection with the café's offerings. Furthermore, the café's use of customer feedback tools such as contact forms, surveys, and rating systems demonstrates its commitment to continuous improvement based on user feedback.

This website also offers opportunities for future expansion, such as mobile app integration and loyalty programs. These enhancements can help to simplify the user experience and encourage repeat business. As the café evolves in the digital age, this website will play an important role in maintaining its status as a central hub for the university community, balancing convenience with quality service. The Libro Cafe website, which combines cutting-edge technology with meticulous design, is poised to remain an integral part of campus life, not only as a dining establishment but also as a digital extension of the university's spirit of collaboration and community.

In addition, Libro Cafe's online booking platform directly contributes to the achievement of SDG 8: Decent Work and Economic Growth. This website helps to build a sustainable economic model by increasing economic activity within the university, creating job opportunities, improving operational efficiency, and encouraging entrepreneurship. This project contributes significantly to the local economic ecosystem by increasing revenue potential and creating job opportunities, while also demonstrating how digital innovation can help achieve larger global development goals. In this way, the Libro Cafe website serves as both a convenience tool and a driver of long-term economic growth, in accordance with SDG 8, demonstrating the positive impact of technological advancements in academic and business settings.