Slice Haven Pizza Website Project Documentation

Project Overview

We aim to create a website for Slice Haven Pizza that provides customers with an easy way to order pizzas online. The website will function similarly to established platforms like Domino's, allowing users to browse the menu, customize their orders, and choose between delivery or pickup. Our primary goal is to design an intuitive interface that enhances the customer experience across both desktop and mobile devices.

Scope-

Pages

The website will include the following main pages:

1. **Homepage**: This will serve as the main entry point for users.
2. **Menu**: Customers can view all available pizzas and complementary items.
3. **Cart**: Users will manage their selected items before checkout.
4. **Locations**: This page will help customers find the nearest Slice Haven restaurant.
5. **Orders**: Users can track the order and know how long it might take for order completion.
6. **Sign-in/Account**: Customers can create and manage their accounts.

Functionality

- Customers will have the ability to browse the full menu.
- They will be able to customize their pizzas by adding or removing toppings.
- Users can create accounts to save preferences and order history.
- The website will be designed to work seamlessly on both desktop and mobile devices.
- Customers will have the option to choose delivery or pickup for their orders.

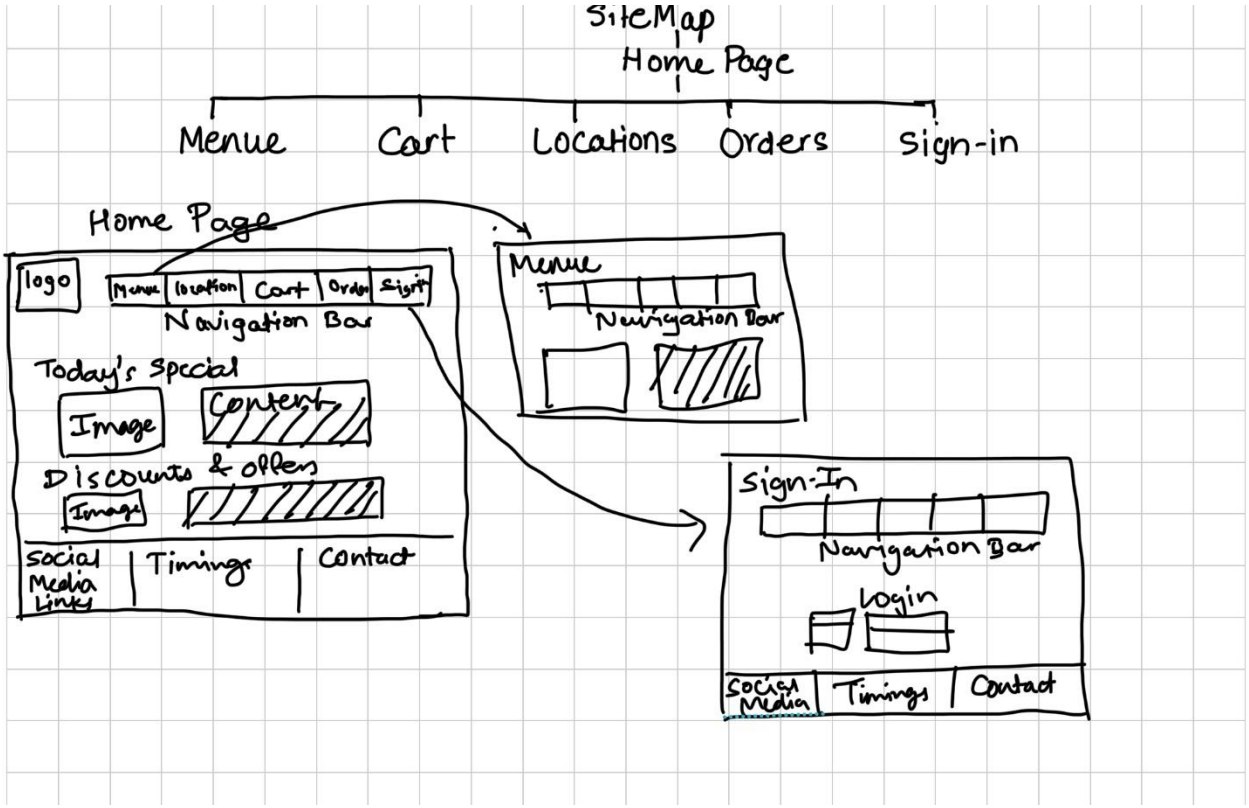
Structure

Design

The visual design will focus on clarity and usability while reflecting the Slice Haven brand. We will use warm colors and clear typography to enhance readability across all devices.

Wireframe

We have created a simple wireframe to illustrate the layout of each page:



- All pages will feature a consistent navigation bar at the top, allowing seamless movement between different sections of the website.
- A standard footer will appear on every page, containing social media links, contact details, and store timings.
- The pages will incorporate a mix of images and text content to engage users visually.
- We will use colors from the Slice Haven logo throughout the design to create a cohesive and impactful user experience.
- The wireframe demonstrates how content will be organized on each page, ensuring a consistent and user-friendly layout across the entire site.

Technical

We will build the website using HTML5, CSS3, and JavaScript. The site will be responsive, adapting its layout for different screen sizes. We will prioritize fast loading times and ensure compatibility across various web browsers.

Timeline

The development of the website is planned over a five-week period:

- **Weeks 1-2**: We will create the basic structure using HTML.
- **Weeks 2-3**: We will implement styling with CSS.
- **Weeks 4-5**: We will add interactivity using JavaScript.

Progress/ Updates

Week 1:

- Created Wireframe
- Built HTML 5 files for each page
- Created structure of the website

Week 2:

- Incorporated different types of selectors to provide CSS

Week 3:

- Addition of Feedback Form.
- Integrated more colors to go with the branding.
- Addition of images in background while integrating marquee effect highlighting today's deals.

Week 4:

- Built a POST API endpoint (/api/feedback) to securely handle user feedback submissions, storing details like name, email, and message in a PostgreSQL database.
- Connected the backend to a PostgreSQL database, designed a feedback table schema, and implemented queries to insert and retrieve feedback data.
- Integrated the backend with the feedback form in index.html using JavaScript (fetch API), enabling real-time feedback submission from users.

Week 5-6:

- **Enhanced Menu Page:**
  - Dynamically loaded menu items from the PostgreSQL database using a GET /api/menu API endpoint.
  - Designed JavaScript functions to display menu items with images, descriptions, prices, and a quantity selector.
  - Improved interactivity by enabling users to add items to their cart with a quantity input.
- **Built Authentication System:**
  - Created user login and registration functionality using a POST /api/register and POST /api/login API endpoints.
  - Integrated Google OAuth for social login using Passport.js for a seamless authentication experience.
- **Implemented Cart Functionality:**
  - Designed a dynamic cart page that fetches cart items using a GET /api/cart API endpoint.
  - Allowed users to update quantities or remove items from the cart, with changes reflected in real-time via the backend.
  - Introduced options for "pickup" or "delivery" during checkout, with a form to collect delivery addresses.
- **JWT Integration:**
  - Utilized JSON Web Tokens (JWT) to manage user sessions securely.
  - Improved error handling for token validation and ensured proper user redirection upon session expiration.
- **Improved Backend Integration:**
  - Added robust middleware to authenticate API requests and link cart actions to logged-in users.
  - Refined the database schema to support cart functionality, storing item IDs, quantities, and user associations.
- **Frontend Enhancements:**
  - Validated form inputs on the frontend for better user experience.
  - Added interactive feedback like loading indicators and success messages for critical actions like adding items to the cart.