

Project Proposal: Fast Food Chip Truck Website

Course: SFWRTECH 4WP3 – Advanced Web Programming

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Purpose of the Application:

This web application will serve as an **online platform** for my family's **fast food chip truck**, allowing customers to:

- **Browse the menu** (with images & prices).
- **Locate the truck's real-time location** on a map.
- **Leave reviews and ratings** for menu items.

This will help **build a digital presence** and encourage customer engagement by allowing visitors to **rate and review food items**.

Potential Users:

- **Local Customers:** Check the menu before visiting.
- **New Customers:** Find the truck via online search and view its location.
- **Returning Customers:** Leave reviews and see top-rated dishes.

Planned Actions (CRUD Operations):

Action	Description
Add a menu item	Admin (owner) can add new menu items (name, price, description, image).
View menu items	Customers can browse all available menu items.
View a single menu item	Users can click on an item to view details.
Update a menu item	Admin can update item details (price, availability, etc.).
Delete a menu item	Admin can remove items that are no longer sold.
Search menu items	Users can search for a specific item (e.g., "poutine").
Leave a review & rating	Customers can submit a star rating (1-5) and review text.
View reviews for a menu item	Customers can see all reviews for a selected item.

Responsive Changes (When Screen < 768px):

The following **three explicit responsive design changes** will occur:

1. **Menu Grid Layout:** Switch from a **three-column grid** to a **single-column list** for better readability.
2. **Navigation Bar:** The main menu will collapse into a **hamburger-style dropdown menu**.
3. **Review Section:** Reviews will switch from a **two-column layout** to a **single-column scrollable list**.

SQLite Database Schema:

The application will use an **SQLite database** with **three tables**:

user Table (Stores Admins & Customers)

Column Name	Type	Description
id	INTEGER (Primary Key)	Unique user ID
email	TEXT (Unique)	User's email (used for login)
username	TEXT	Display name for the user
password	TEXT	Hashed password (for security)
role	TEXT	"admin" or "customer"

menu_items Table (Stores Food Menu)

Column Name	Type	Description
id	INTEGER (Primary Key)	Unique identifier for each menu item.
name	TEXT	Name of the menu item (e.g., "Cheeseburger").
description	TEXT	Short description of the dish.
price	REAL	Price of the menu item.
category	TEXT	Category (e.g., "Burgers", "Fries", "Drinks").
image_url	TEXT	Link to an image of the item.

reviews Table (Stores Customer Reviews)

Column Name	Type	Description
id	INTEGER (Primary Key)	Unique identifier for the review.
menu_item_id	INTEGER (Foreign Key)	Links the review to a specific menu item.
customer_name	TEXT	Name of the customer who left the review.
rating	INTEGER	Star rating (1-5).
review_text	TEXT	Review comments from the customer.
created_at	TEXT	Date and time the review was posted.

Form Validation

There will be more validation checks done these are just a few being listed:

1. Rating Field (rating)

- **Validation:** Must be a **whole number between 1 and 5**.
- **Backend Handling:** If invalid, show an error like:
 - "Rating must be a number between 1 and 5."

2. Signup Form

- **Email:** Must be a **valid email format** (e.g., user@example.com).
- **Backend Handling:** If invalid, show an error like:
 - "Please enter a valid email address."
- **Username:** Must be at least 3 characters long and contain only letters/numbers
- **Backend Handling:** If invalid, show an error like:
 - "Username must be at least 3 characters and contain only letters and numbers."

UI Prototype

Page 1

https://www.s&sfries.com


S & S Fries

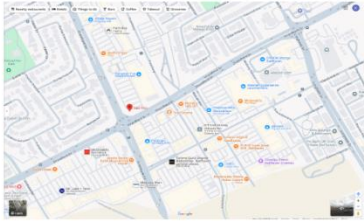
Menu Items


Map

Reviews

Login








Menu Items

Search


Poutine



Delicious poutine with St.Albert cheese curds

\$10.50


Item2



Description

Price


Item2



Description

Price


Item2



Description

Price

Item2



Description

Price

LOCATION

2501
Greenbank Rd,
Nepean, ON
K2J 4Y6

HOURS

TBD

FIND US ON...

f

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G

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