Project Title: Grab&Go

Team Members

- Bhumika Kukreja (Leader) - 2401730163
- Mohini Chauhan (Member) - 2401730194
- Mishti Jain (Member) - 2401730162
- Nikki Chauhan (Member) - 2401730212

Project Description

Hungry but stuck in a never-ending canteen queue? Say hello to Grab&Go — your ticket to skipping the line and grabbing a hot meal in seconds! Grab&Go is a web app that lets you pre-order from multiple cafeterias at once. Built with HTML, CSS, JavaScript and backed by a PostgreSQL database, it handles:

- Passwordless user login via email OTPs
- Order tracking
- Admin dashboard for adding and managing food items easily
- Home page to scroll through delicious food items

Problem Statement

- Endless Waiting: Students and staff waste precious breaks standing in long cafeteria queues.
- Limited Choice: You can only order from one canteen at a time, missing out on other nearby options.
- No Pre-Order Visibility: Without a unified system, you never know when your meal will actually be ready.
- Manual Menu Management: Cafeteria admins juggle spreadsheets or paper lists to update daily food items, leading to errors and delays.
- Fragmented User Data: Handling OTPs, passwords, and order history across multiple platforms is cumbersome and insecure.

Grab&Go tackles all of these by letting users pre-order from multiple cafeterias, track their meals in real time, and giving admins a single dashboard to manage menus and user data.

Technologies Used

- Frontend
    - HTML
    - CSS
    - JavaScript
    - GSAP
- Backend
    - Node.js – Server-side JavaScript runtime for building the backend.
    - Express – Fast, minimal web framework for routing and middleware.
    - SMTP – Email protocol used for sending OTPs via services like Nodemailer.
    - Chalk – Terminal string styling for colorful, readable console logs.
    - Psycopg – PostgreSQL adapter (optional) for managing database connections and queries.

Current Working Model

User Flow

1. Email Entry & Verification
    - User enters their email on the login page.
    - An OTP is sent to the provided email.
    - If the OTP is correct, the user is logged in; otherwise, they continue as a guest.
2. Browsing & Cart Management
    - On `grid_page.html`, users can browse and add items to their cart.
    - Item quantities are updated in the PostgreSQL database in real time.
    - Updates are reflected immediately on both the `grid_page.html` and `cart_page.html`.

Admin Flow

- Item Management
    - Admins can upload new food items, specifying:
        - Name
        - Price
        - Description
        - Image

        - Canteen
    - Uploaded items become instantly available for users to view and order.

Future Scope

- Search Functionality
  Allow users to quickly find food items by name, category, or canteen, with real-time filtering and suggestions.
- Payment Gateway Integration
  Add secure online payments (e.g., Stripe, PayPal) so users can pay at the time of ordering and avoid cash handling.
- “My Orders” Dashboard
  Provide users with a personalized order history and status tracker, so they can view past orders, reorder favorites, and track current requests.
- Recommendation System