

# Pino's on Campus

## Development and Technical Guide

### ✦ User Guide:

#### 1. Introduction to Using the System

- Begin your journey—register to unlock the wonders of Pino's on Campus.
- Seamless access awaits after a quick login.

#### 2. Getting Started:

- Unlock the magic with our user-friendly mobile interface.
- Seamless navigation for a hassle-free experience.

#### 3. Placing Orders:

- Explore the menu and make your selection.
- UJ Staff: Enjoy the convenience of both delivery and collection.
- Students: opt for easy collection.

#### 4. Rating Orders:

- Share your feedback on food, service, and the driver.
- Your input helps us enhance your experience.

#### 5. Managing User Profiles:

- Update your user profile with ease.

#### 6. Order Tracking:

- Experience real-time tracking of your order.
- Stay informed as your delightful meal makes its way to you.

#### 7. Order History

- Explore your past and present orders effortlessly.
- Access a record of your culinary journey with Pino's on Campus.

#### 8. Troubleshooting:

Encountering issues? Here are some solutions:

- Can't Log In:  
**Issue:** Trouble logging into your account.  
**Solution:** Check your username and password. Use "Forgot Password" or contact support if needed.
- Order Missing:  
**Issue:** Placed order not showing up in history.  
**Solution:** Wait a bit for updates. If it persists, contact customer support.
- App/Website Crashes:  
**Issue:** Frequent app/website crashes.  
**Solution:** Ensure your device meets requirements. Update app/browser. Clear cache if needed.
- Incomplete Delivery:  
**Issue:** Received an incomplete order.  
**Solution:** Check your receipt. Report missing items to support ASAP.
- Payment Errors:  
**Issue:** Errors during payment.  
**Solution:** Verify details. Try a different payment method. Contact support if issues persist.

- Slow Order Tracking:  
**Issue:** Tracking updates are slow.  
**Solution:** Wait a bit, then refresh. Contact support if it continues.
- Menu Issues:  
**Issue:** Menu items not loading.  
**Solution:** Check internet. Update app/browser. Contact support if problems persist.

## 9. FAQ:

Here are answers to some frequently asked questions:

Q: How to register?

A: Click "Register," fill in details, and verify your email.

Q: Can students get delivery?

A: No, only UJ staff can choose delivery.

Q: How to track my order?

A: Visit "Order Tracking" for real-time updates.

Q: Forgot my password—what to do?

A: Use "Forgot Password" on the login page.

Q: Edit order after placing it?

A: No but cancel and reorder.

Q: Can't see the full menu—why?

A: Check internet or contact support.

Q: How often is the menu updated?

A: Regular updates; check for the latest items.

## User Categories:

### 1. UJ Staff:

- Register and order (delivery/collection).
- Rate orders.
- Track orders.
- Order history

### 2. Students:

- Register and order (collection).
- Rate orders.
- Track orders.
- Order history
- My Account.

### 3. Manager:

- Manage menu (add items, update items, delete items, create specials).
- View statistics.
- Manage employees.

### 4. Driver:

- The Driver is the hero of swift deliveries. Once the kitchen signals readiness, they set out to bring joy in real-time.
- Dive into the magic of real-time dispatch! As the kitchen says, "It's ready," the Driver hits the road to deliver.

#### 5. Kitchen Staff:

- Accept orders.
- Process orders.
- Update order status.

## Installation Guide

### Software Required for Deployment

Before diving into the installation, ensure you have the following:

#### Visual Studio:

- If not installed, download, and install Visual Studio from the [official website](#).

#### MS SQL Server:

- [Download MS SQL Server](#)
- Follow the installation instructions.

### Deployment Instructions

Follow these steps to deploy and set up your system:

#### 1. Clone Repository:

- Open your terminal or command prompt.
- Clone our GitHub repository using the following command:  
git clone <https://github.com/IFMTYP-2023/team8-dev.git>
- Note: The repository is private, so request access from the project administrator.

#### 2. Database Setup:

- The Pino's on Campus system relies on MySQL for its database. Ensure you have MySQL installed on your system.
- Database Connection:
- Locate the appsettings.json file in the project.
- Update the connection string with your MySQL database credentials.  
"ConnectionStrings": {  
    "DefaultConnection": "DefaultConnection":  
    "server=localhost\\SQLEXPRESS;database=Team8;trusted\_connection=true;  
    "}  
• Apply Migrations:
- Open the Package Manager Console in Visual Studio.
- Run the following commands:  
"Update-Database"
- This will apply the necessary migrations and set up your database.
- This script will create and configure the necessary database tables and relationships.

#### 3. Build and Run:

- Open the project in Visual Studio or your preferred IDE.
- Build the project to compile the code.

- Run the project to start the application.
4. **Access the System:**
    - Open your web browser.

## **Developer Guide:**

1. **Architecture Overview:**
  - The Pino's on Campus system is designed with a microservices architecture, chosen for its scalability and maintainability. This architecture allows for the independent development and deployment of services, enhancing flexibility in managing different aspects of the system.
2. **API (Application Programming Interface):**
  - Our API serves as the central hub of communication, handling various user requests and ensuring seamless interactions between different components. It follows a RESTful architecture, providing endpoints for user authentication, order processing, and menu management. Security measures include JWT token-based authentication to secure user requests.
3. **Website (ASP.NET):**
  - The ASP.NET website serves as the user interface accessible through web browsers. Users can browse menus, place orders, and manage their accounts. The website integrates with the API using HTTP requests for actions such as user authentication and order placement.
4. **Mobile App (Xamarin Forms):**
  - Xamarin Forms enables cross-platform mobile app development, delivering a consistent experience on both Android and iOS devices. The app communicates with the API through HTTP requests, providing users with on-the-go convenience.
5. **Database (MS SQL):**
  - The MS SQL database stores essential data, including menus, user profiles, ratings, and orders. The database schema includes tables for users, menu items, orders, and loyalty points. Data retrieval is optimized.
6. **Application Program Interface (API):**
  - **User Management Endpoints:**
    - **POST /api/user/register:** Register a new user.
    - **POST /api/user/login:** Authenticate a user.
    - **PUT /api/user/update:** Update user details.
  - **Order Management Endpoints:**
    - **POST /api/order/place:** Place a new order.
    - **GET /api/order/track/{orderId}:** Track the status of an order.
    - **PUT /api/order/update/{orderId}:** Update the status of an order.
  - **Menu Management Endpoints:**
    - **GET /api/menu:** Retrieve the menu.
    - **PUT /api/menu/update/{itemId}:** Update menu item details.
    - **DELETE /api/menu/delete/{itemId}:** Delete a menu item.
  - **Security Measures:**
    - HTTPS for secure data transmission.
    - Input validation to prevent common security vulnerabilities.