| User Story / Task | Description | Acceptance Criteria | Sprint |
|---|---|---|---|
| User Story: Customer Registration | As a customer, I want to register and create a profile to receive personalized menu recommendations. | - Users can sign up via email or social login.<br>- Successful sign-up redirects to profile setup. | Sprint 1 |
| User Story: Restaurant Registration | As a restaurant owner, I want to create an account to list my restaurant and its menu on DineWise. | - Owners can sign up using business credentials.<br>- Successful sign-up redirects to the dashboard. | Sprint 1 |
| User Story: Customer Login | As a customer, I want to log in to my account using registered credentials to access my personalized recommendations. | - Users can log in via email/password.<br>- Successful login redirects to the dashboard. | Sprint 1 |
| User Story: Restaurant Owner Login | As a restaurant owner, I want to log in to manage my restaurant menu and customer activity. | - Owners can log in with email/password.<br>- Successful login redirects to the restaurant dashboard. | Sprint 1 |
| User Story: Password Recovery | As a user, I want to recover my password if I forget it. | - Users can request a password reset link.<br>- Successful password reset allows a new login. | Sprint 1 |
| User Story: Enable OAuth Login | As a user, I want to log in using Google or Facebook for easy access. | - Users can log in with Google/Facebook.<br>- OAuth login redirects users back to the app. | Sprint 1 |
| Technical Task: Session Management | Implement secure session management for logged-in users. | - Sessions expire after inactivity.<br>- Users remain logged in until they log out manually. | Sprint 1 |
| User Story: Personalized Menu Suggestions | As a customer, I want to receive menu recommendations based on my preferences and dining history. | - Menu recommendations are personalized.<br>- Menu updates dynamically based on preferences. | Sprint 2 |
| User Story: Add Items to Cart | As a customer, I want to add items to my cart so I can place an order from my personalized menu. | - Customers can add items to their cart.<br>- Cart updates in real time with selected dishes. | Sprint 2 |
| Technical Task: Menu Recommendation Algorithm | Develop the ML model for personalized dish recommendations based on user preferences. | - Recommendation engine uses customer data.<br>- Personalized suggestions are ranked accurately. | Sprint 2 |
| Technical Task: Data Pipeline for ML | Set up a data pipeline to collect customer preferences and feedback for the recommendation model. | - Customer data is stored and pre-processed.<br>- Data is fed into the ML model for training. | Sprint 2 |
| Technical Task: Real-Time Pricing Backend | Create backend infrastructure for real-time dynamic pricing updates based on demand. | - Backend handles real-time price updates.<br>- Pricing changes are served to the frontend API. | Sprint 2 |
| User Story: Dynamic Pricing Display | As a customer, I want to see the price of each dish updated in real-time based on demand. | - Prices adjust dynamically in real-time.<br>- Users see updated prices on the menu. | Sprint 3 |
| User Story: Remove Items from Cart | As a customer, I want to remove or change items in my cart before placing the order. | - Customers can remove or modify items.<br>- Cart updates immediately with accurate pricing. | Sprint 3 |
| User Story: View Cart Summary | As a customer, I want to view a summary of my cart before checkout to confirm order details. | - Cart displays selected items and total cost.<br>- Cart updates dynamically with pricing. | Sprint 3 |
| User Story: Place Order | As a customer, I want to place an order for the recommended dishes. | - Customers can place an order after adding items to the cart.<br>- Successful order redirects to confirmation. | Sprint 3 |
| Technical Task: Dynamic Pricing Algorithm | Develop the dynamic pricing algorithm that adjusts prices based on demand and availability. | - Pricing algorithm adjusts in real-time.<br>- Customers see price changes in real time. | Sprint 3 |