Smart cooking assistant web application - Use Case Tables

Use Case Number	UC 01
Use Case Name	User registration
Actors	User
Description	A new user creates an account by filling out a registration form.
Preconditions	User is on the registration page.
Postconditions	User is saved in the database as unverified; BMI is calculated.
Trigger	User submits a registration form.

Use Case Number	UC 02
Use Case Name	User login
Actors	User
Description	A verified user logs in using their email and password.
Preconditions	Users must be registered and verified.
Postconditions	Access to the user dashboard is granted.
Trigger	User enters login credentials.

Use Case Number	UC 03
Use Case Name	Password Recovery
Actors	User
Description	User receives a reset link after requesting password recovery.
Preconditions	User enters a valid email.
Postconditions	User receives a reset email with a link.
Trigger	User clicks 'Forgot Password'.

Use Case Number	UC 04
Use Case Name	Profile Update
Actors	User
Description	Users update profile details like weight or goals.
Preconditions	User is logged in.
Postconditions	Updated info is saved; BMI recalculated.
Trigger	User saves profile changes.

Use Case Number	UC 05
Use Case Name	BMI Calculation
Actors	System
Description	Calculates BMI based on height and weight.
Preconditions	User provides height and weight.
Postconditions	BMI is saved to profile.
Trigger	User submits height/weight.

Use Case Number	UC 06
Use Case Name	Recipe Suggestions Based on Available Ingredients
Actors	User, AI Chatbot
Description	Chatbot suggests recipes based on the user's available ingredients.
Preconditions	User provides ingredients.
Postconditions	Suggested recipes are shown.
Trigger	User submits height/weight.

Use Case Number	UC 07
Use Case Name	Chatbot Remembers User Preferences
Actors	User, AI Chatbot
Description	Chatbot personalizes suggestions based on saved preferences.
Preconditions	User has saved preferences.
Postconditions	Preferences are used in responses.
Trigger	Chatbot receives user requests.

Use Case Number	UC 08
Use Case Name	Dynamic Recipe Discovery
Actors	User, AI Chatbot
Description	User asks 'What should I cook?', chatbot responds with suggestions.
Preconditions	User is logged in.
Postconditions	Personalized recipes are displayed.
Trigger	User asks for a meal idea.

Use Case Number	UC 09
Use Case Name	User Feedback on Chatbot Recommendations
Actors	User, AI Chatbot
Description	User rates chatbot suggestions.
Preconditions	User views chatbot response.
Postconditions	Feedback is logged.
Trigger	Users give ratings or comments.

Use Case Number	UC 10
Use Case Name	Access Step-by-Step Cooking Guide (Premium)
Actors	Premium User, AI ChatBot
Description	Premium users get interactive cooking instructions.
Preconditions	User is premium and selects a recipe.
Postconditions	Guide is shown with text/audio steps.
Trigger	Guide is shown with text/audio steps.

Use Case Number	UC 11
Use Case Name	Dynamic Cooking Adjustment
Actors	Premium User, AI ChatBot
Description	Cooking guide adapts based on user input.
Preconditions	Guide is active.
Postconditions	Instructions adjust as needed.
Trigger	User interacts with the guide (pause, repeat).

Use Case Number	UC 12
Use Case Name	AI Timer & Time Estimates
Actors	User, AI ChatBot
Description	System shows prep and cook times, and sets timers.
Preconditions	User selects a recipe.
Postconditions	Timers are running; time is shown.
Trigger	Recipe guide step is reached.

Use Case Number	UC 13
Use Case Name	Alternate Cooking Methods
Actors	User, AI System
Description	AI offers different preparation methods.
Preconditions	Users request alternatives.
Postconditions	New method is displayed.
Trigger	User asks for a different method.

Use Case Number	UC 14
Use Case Name	Save & Favorite Recipes
Actors	User
Description	User saves or favorites recipes for later.
Preconditions	User views a recipe.
Postconditions	Recipe is added to favorites.
Trigger	User clicks save or favorite.

Use Case Number	UC 15
Use Case Name	Request Recipe Modifications (Premium)
Actors	Premium User, AI System
Description	AI modifies recipes to fit dietary goals.
Preconditions	User opens a recipe.
Postconditions	Modified version is displayed.
Trigger	User requests modification.

Use Case Number	UC 16
Use Case Name	Track Recipe History
Actors	User, System
Description	System logs when recipes are cooked.
Preconditions	User cooks a recipe.
Postconditions	Recipe is time stamped and stored.
Trigger	User marks the recipe as cooked.

Use Case Number	UC 17
Use Case Name	Generate Shopping List (Premium)
Actors	Premium User
Description	Creates a categorized shopping list.
Preconditions	User selects recipes.
Postconditions	List is generated and stored.
Trigger	User clicks 'Generate Shopping List'.

Use Case Number	UC 18
Use Case Name	Manual Ingredient/Recipe Entry
Actors	User
Description	Users add custom ingredients or recipes.
Preconditions	User is logged in.
Postconditions	Custom entry saved and categorized.
Trigger	User submits a new ingredient/recipe.

Use Case Number	UC 19
Use Case Name	Meal Tracking & Nutrition Reports
Actors	User, System
Description	App tracks meals and shows calorie summaries.
Preconditions	App tracks meals and shows calorie summaries.
Postconditions	Meal data logged and visualized.
Trigger	User finishes cooking a meal.

Use Case Number	UC 20
Use Case Name	AI Recommendations for Nutrition Balance
Actors	User, AI System
Description	AI suggests meals to balance nutrient intake.
Preconditions	Meal tracking data exists.
Postconditions	Suggestions are shown.
Trigger	System detects imbalance in nutrients.