**SUCCESSFUL SCENARIO**

1. (AA) The user opens the AI-based recipe generation system.
2. (AA) The user enters their username and password.
3. (SR) The user is now logged in.
4. (SA) The AI system prompts the user to input their dietary preferences, such as vegan, gluten-free, or low-carb.
5. (AA) The user selects their dietary preferences.
6. (SA) The AI system prompts the user to input the ingredients available.
7. (AA) The user selects the ingredients
8. (SR) The AI system generates a potential recipe option based on the user's preferences.
9. (SR) The AI system generates the recipe and displays it on the user's screen, including a list of ingredients and step-by-step instructions.
10. (SA) If the user is satisfied with the recipe, the AI system asks if they would like to rate it for future training purposes.
11. (AA) The user logs out now.

**EXCEPTIONAL FLOW OF EVENTS**

1. The user is not registered.
2. The user enters the wrong password 3 times.
3. Entered allergy/preference is not valid/in the database.
4. Entered ingredient is not valid/in the database.