SPSE Jecna Test Case

Test Case ID: ZK_1	**Test Designed by:** Sofia Hennelová
Test Name: Executability	
Brief description: Verify the program can be executed successfully, including importing the database structure.	
Pre-conditions: MySQL Server is installed and running, Project source code is downloaded from Git repository	
Dependencies and Requirements: Project source code is downloaded from Git repository, Internet access for installing dependencies	

Step	Test Steps	Test Data	Expected Result	Notes
1	Open terminal and navigate to the backend directory of the project	-	Terminal successfully opens in /backend directory	-
2	Create and activate Python virtual environment and install backend dependencies	-	Virtual environment is created and dependencies are installed without errors	-
3	Configure database connection in config.json	-	The file information will be changed	-
4	Run backend server using py main.py	-	Console shows startup message and "Database initialized."	
5	Navigate to frontend directory and install frontend dependencies	npm install	Dependencies are installed successfully	-
6	Start frontend server and open application in web browser	npm run dev	Frontend application starts and is accessible via browser	URL: http://localhost:5173/

SPSE Jecna Test Case

Test Case ID: ZK_2	Test Designed by: Sofia Hennelová
Test Name: Recipe management	
Brief description: Verify that the user can create, view, edit and delete recipes.	
Pre-conditions: ZK_1	
Dependencies and Requirements: Project source code is downloaded from Git repository, Internet access for installing dependencies	

Step	Test Steps	Test Data	Expected Result	Notes
1	Open application in web browser	Application URL	Application page loads correctly	-
2	Create a new recipe with ingredients	Recipe title, description, difficulty, ingredients	Recipe is stored in the DB and visible on the page	-
3	Click on edit and change data in the recipe, click Save Changes	Updated title, description, difficulty, ingredients	Recipe data is updated in DB and UI	-
4	Click Delete on a recipe	-	Recipe is deleted from DB and UI	-

SPSE Jecna Test Case

Test Case ID: ZK_3	Test Designed by: Sofia Hennelová
Test Name: Cookbook management	
Brief description: Verify that the user can create a cookbook and add recipes.	
Pre-conditions: ZK_1	
Dependencies and Requirements: Project source code is downloaded from Git repository, Internet access for installing dependencies	

Step	Test Steps	Test Data	Expected Result	Notes
1	Open application in web browser	Application URL	Application page loads correctly	-
2	Create a new cookbook	-	The cookbook is stored in the DB and visible on the page	-
3	Add a recipe to the cookbook	-	The cookbook should have 1 recipe	-
4	Click on the cookbook	-	You should see and overview and the added recipe below	-

SPSE Jecna Test Case

Test Case ID: ZK_4	Test Designed by: Sofia Hennelová
Test Name: Error Handling and Configuration	
Brief description: Verify that the application correctly handles configuration errors, database connection failures, invalid inputs, and missing resources.	
Pre-conditions: ZK_1	
Dependencies and Requirements:	

Step	Test Steps	Test Data	Expected Result	Notes
1	Modify config.json with invalid DB credentials	Wrong username/password	Console displays a clear error message	-
2	Modify config.json with invalid schema name	Wrong schema name	Console displays a clear error message	-
3	Stop MySQL server and start backend	-	Console displays a connection error message	-
4	Try to import an invalid JSON file	Invalid JSON file	Import fails with a clear error message	-