**Sign up**  
**Description:** Users can create an account by providing a username, email, first name, last name and password. After successful registration, a confirmation message will appear with a “Back to Login” button, allowing users to navigate to the login page.

**User Story (if applicable):**  
*"As a user, I want to register an account using my username, email, first name, last name and password, so that I can log in and access the system."*

**1. Acceptance Criteria**

Define what needs to be met for this item to be considered **complete**.

✅ The user can register by entering username, email, first name, last name and password.

✅ If the registration is successful, a confirmation message appears: Success! Your account has been created successfully! A button “Back to Login” is displayed.

✅ Clicking the “Back to Login” button redirects the user to the login page.

✅ If registration fails, for example, the email already registered, an appropriate error message is displayed. (optional)

**2. Requirements & Specifications**

Provide clear **functional** and **non-functional** details.

* **Functional:** API endpoint /register should accept {username, password}.
* **Non-functional:** Must handle 1,000 concurrent requests per minute.

**Optional:** Include wireframes or process flow diagrams.

**3. Dependencies & Constraints**

* E.g. The user database is required to store account details.

**4. GWT**

Provide Given-Then-When for main cases and edge cases.

* **Given**: Describes the initial state and preconditions before the test begins
* **When**: Describes the actions taken by a user during the test
* **Then**: Describes the outcome that results from the actions taken in the "when" clause

**Scene1:** User sign up successfully

**Given:** The user is on the sign up page and enters a valid username, email, first name, last name and password.

**When:** The user clicks the “Sign up” button.

**Then:** The system creates the account and displays a confirmation message.

**Scene2:** User click “Back to Login” button

**Given:** The user has successfully registered and sees the confirmation message.

**When:** The user clicks the “Back to Login” button.

**Then:** The system redirects the user to the sign in page.

(optional)Scene3: User enter an already registered email

Given: The user is on the sign up page and enters an email that already exists in the system.

When: The user clicks “Sign up”.

Then: The system displays an error message.