System Test Suite 3: Teacher Class Management Workflow

Objective

Verify that a teacher can successfully create, invite a student, edit, and remove a class.

Pre-conditions

1. System is running (Backend: localhost:3000, Frontend: localhost:3001)
2. The test database is seeded with sample data.
3. Teacher account exists (email: praewa@gmail.com, password: password)
4. The browser is open and cleared of cache/cookies.

Test Environment

- Backend URL: http://localhost:3000
- Frontend URL: http://localhost:3001
- Database: PostgreSQL (seeded)
- Browser: Chrome/Firefox/Edge (latest version)

Test Cases

Test Case 3.1: Create a New Class

Field	Description
Test Case ID	STS-003-TC-01
Test Title	Verify teacher can create a new class successfully
Test Priority	High
Pre-condition	The teacher is logged in and on the "Create Your New Class" page (e.g., http://localhost:3001/class/create)

Test Steps:

1. Navigate to http://localhost:3001/classes/new (Create Class page)
2. Enter a valid class name in the Class Name field (e.g., "Introduction to English
3. ")
4. Enter a short description in the Description field (e.g., "First-year fundamentals class")
5. Click the Create Class button
6. Observe page behavior and navigation

Expected Result:

- User is redirected to the teacher dashboard or class list page (e.g., http://localhost:3001/class)
- The newly created class appears in the class list with the correct **Class Name** and **Description,** with the User name as a teacher's class

Test Case 3.2: Create an Invite for a student

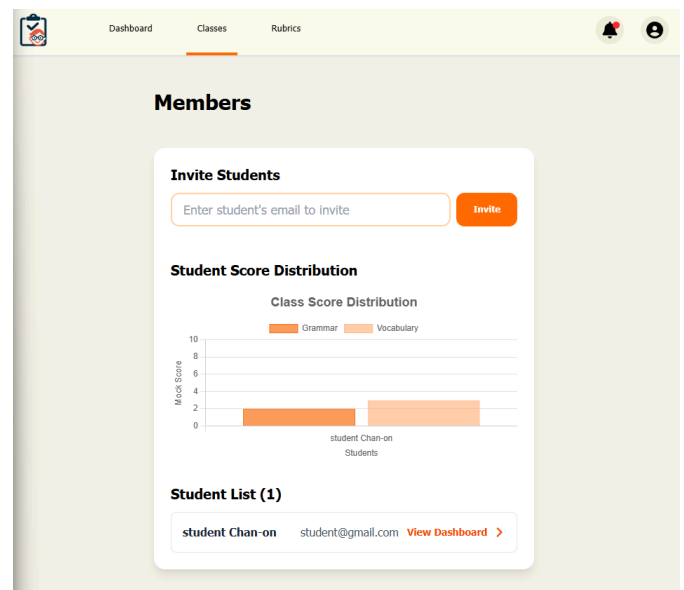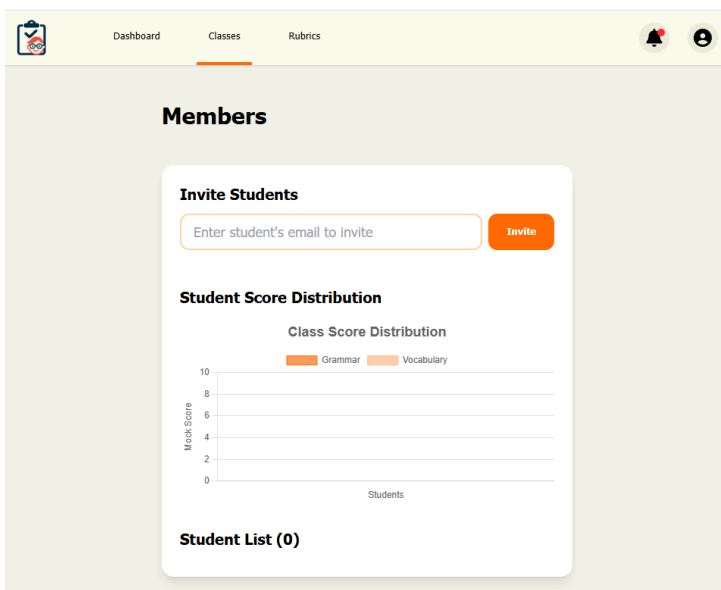| Field	Description
Test Case ID	STS-003-TC-02
Test Title	Verify that the teacher can invite a student to a class
Test Priority	High
Pre-condition	Teacher is logged in and has at least one existing class (e.g., "Introduction to English") and is on the Class Detail page (http://localhost:3001/class/{classId})

Test Steps:

1. On the Class Detail page, click the Members card or tab to navigate to the Members page (http://localhost:3001/class/{classId}/member).
2. In the "Enter student's email to invite" input field, type a valid student email (e.g., student1@gmail.com).
3. Click the Invite button.
4. Observe page behavior and any feedback messages.

Expected Result:

- The Student List section is updated to show the invited student with the correct email and status.
- The Members count for the class is updated accordingly.

Test Case 3.3: Edit an Existing Class

Field	Description
Test Case ID	STS-003-TC-03
Test Title	Verify teacher can edit class details successfully
Test Priority	High
Pre-condition	- The teacher is logged in and has an existing class (e.g., "Introduction to English"). - The teacher is on the Edit Class page (http://localhost:3001/class/{classId}/edit).

Test Steps:

1. Navigate to the class list page: http://localhost:3001/class.
2. Click on the target class card "Introduction to English" to open the Class Detail page.
3. Click the edit icon (✏️) next to the class name to open the Edit Class page (http://localhost:3001/class/{classId}/edit).
4. In the Class Name field, change the text to: Introduction to English – Section A.
5. In the Description field, update the text to: First-year fundamentals class (Section A).
6. Click the Confirm Edit button.
7. Observe page navigation and updated information.

Expected Result:

- User is redirected back to the Class Detail page or Class List page.
- The class card and class detail header now display the updated class name:
    - Introduction to English – Section A
- The class description is updated to:
    - First-year fundamentals class (Section A)
- No error message is shown, and data is saved correctly in the system.

Test Case 3.4: Delete an Existing Class

Field	Description
Test Case ID	STS-003-TC-05
Test Title	Verify teacher can delete a class successfully
Test Priority	High
Pre-condition	The teacher is logged in and has an existing class (e.g., "Introduction to English"). The teacher is on the Edit Class page (http://localhost:3001/class/{classId}/edit).

Test Steps:

1. Navigate to the class list page: http://localhost:3001/class.
2. Click on the class card "Introduction to English" to open the Class Detail page.
3. Click the edit icon (✏️) next to the class name to go to the Edit Class page (/edit).
4. On the Edit Class page, locate and click the Delete Class button.
5. Confirm the deletion in the confirmation pop-up
6. Click the Confirm Delete Edit button.
7. Observe system behavior and page redirection.

Expected Result:

- The class is removed from the database.
- The user is redirected to the Classes page (/class).
- The deleted class no longer appears under "My Courses".
- No errors are displayed.