

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: alan@gmail.com, password: alanalan)
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

The screenshot shows a web application interface with a top navigation bar containing 'Dashboard', 'Classes', and 'Rubrics'. The 'Classes' tab is active. The main content area features a form titled 'Create Your New Class' with the subtitle 'Fill in the details to get started.' The form has two input fields: 'Class Name' with the placeholder text 'Introduction to English' and 'Description' with the placeholder text 'First-year fundamentals class'. Below the form is an orange button labeled 'Create Class'.

The screenshot shows the teacher dashboard for a newly created class. The top navigation bar is the same as the previous screenshot. The main content area has a header for the class 'Introduction to English' with the subtitle 'First-year fundamentals class'. To the right of the header is an orange box containing the teacher's name 'Teacher: Praewa Chan-on' and the class code 'INTPC3YL'. Below the header, there are three main sections: 'Members' showing 0 members, a graph titled 'Average Class Score' with a y-axis from 0 to 10 and a legend for 'Grammar' and 'Vocabulary', and an 'Assignment' section with a 'Create Assignment' button.

Test Case 3.2: Create an Invite for a student

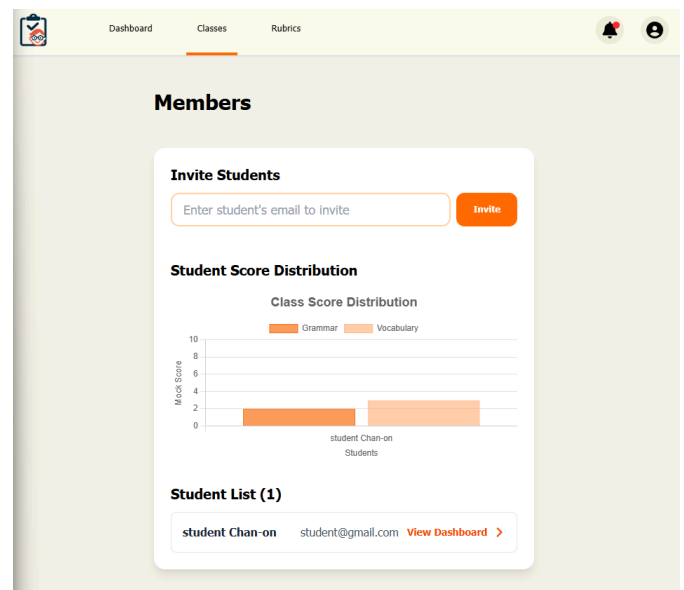
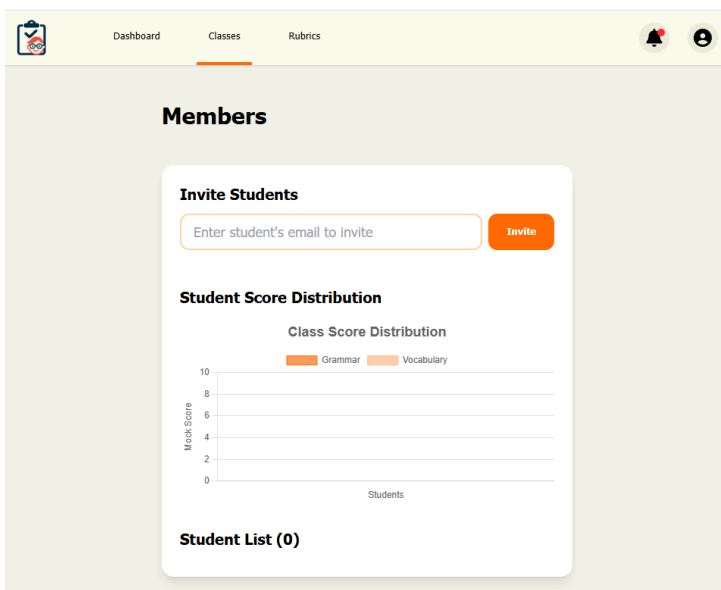
Field	Description
Test Case ID	STS-003-TC-02
Test Title	Verify that the teacher can invite a student to a class
Test Priority	High
Pre-condition	Teacher is logged in and has at least one existing class (e.g., "Introduction to English") and is on the Class Detail page (http://localhost:3001/class/{classId})

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	<ul style="list-style-type: none">- 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.