

System Test Suite 1: Student Assignment Submission Workflow

Objective

Verify that a student can successfully view assignments, submit work with files and text content, and view submission confirmation in their class.

Pre-conditions

1. System is running (Backend: localhost:3000, Frontend: localhost:3001)
2. Test database is seeded with sample data.
3. Student account exists (email: reze@gmail.com, password: password)
4. At least one class with assignments exists.
5. 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 1.1: Student Login

Field	Description
Test Case ID	STS-001-TC-01
Test Title	Verify student can login successfully
Test Priority	High
Pre-condition	Student is on login page (http://localhost:3001/login)

Test Steps:

1. Navigate to <http://localhost:3001/login>
2. Enter email: "reze@gmail.com"
3. Enter password: "password"
4. Click "Sign In" button
5. Observe page navigation

Expected Result:

- User is redirected to dashboard (<http://localhost:3001/>)
- Dashboard displays "Welcome Back, Jane!" message
- Navigation bar shows student-specific menu items (Dashboard, Classes, Peer Reviews, My Performance, AI Analysis)

Test Case 1.2: Navigate to Class

Field	Description
Test Case ID	STS-001-TC-02
Test Title	Verify student can navigate to a class
Test Priority	High
Pre-condition	Student is logged in and on dashboard

Test Steps:

1. Click "Classes" in navigation bar
2. Verify class list is displayed
3. Click on "Introduction to Literature" class card
4. Observe page content

Expected Result:

- Classes page displays all enrolled classes
- Each class card shows: class name, description, teacher name, member count
- Clicking a class navigates to class detail page (e.g., [/class/1](#))
- Class detail page shows: class name, description, teacher info, class code, assignments list

Test Case 1.3: View Assignment Details

Field	Description
Test Case ID	STS-001-TC-03
Test Title	Verify student can view assignment details
Test Priority	High
Pre-condition	Student is on class detail page with assignments

Test Steps:

1. Locate "Essay on Modern Poetry" assignment in the assignments list
2. Click on the assignment
3. Verify assignment detail page loads
4. Review all displayed information

Expected Result:

- Assignment detail page displays:
 - Assignment title: "Essay on Modern Poetry"
 - Course name: "Introduction to Literature"
 - Opened date and time
 - Due date and time
 - Assignment description
 - Grading rubric (if assigned)
 - Submission section (if not yet submitted) OR submission status (if already submitted)

Test Case 1.4: Submit Assignment with Text Content

Field	Description
Test Case ID	STS-001-TC-04
Test Title	Verify student can submit text content for assignment
Test Priority	High
Pre-condition	Student is on assignment detail page, assignment not yet submitted

Test Steps:

1. Locate "Add Comment / Text Submission" textarea
2. Enter text: "This is my essay analyzing T.S. Eliot's 'The Waste Land'. The poem explores themes of disillusionment and fragmentation in post-war society..."
3. Scroll down (do not add files yet)
4. Click "Submit" button
5. Wait for response

Expected Result:

- Textarea accepts text input (minimum 10 characters)
- Submit button is enabled when text is entered
- After submission:
 - Success message or page refresh
 - "Your Submission" section appears
 - Submitted text is displayed in "Your Submitted Text" section
 - Submission timestamp is shown
 - Status shows "Pending Grade" (if not graded)

Test Case 1.5: Edit Submission and Add Files

Field	Description
Test Case ID	STS-001-TC-05
Test Title	Verify student can edit submission and add files
Test Priority	High
Pre-condition	Student has submitted text content, on assignment detail page

Test Steps:

1. Click "Edit Submission" button
2. Modify existing text in textarea
3. Prepare test file (e.g., essay.pdf, max 20MB)
4. Drag and drop file into the dropzone OR click "Browse Files" and select file
5. Verify file appears in "Selected Files" list
6. Click "Update Submission" button
7. Wait for response

Expected Result:

- Edit Submission button is visible and clickable
- Clicking it enables edit mode with textarea and file upload
- File dropzone accepts drag-and-drop
- Browse button opens file picker
- Selected file displays:
 - Filename
 - File size
 - Appropriate icon (PDF icon for .pdf files)
 - Remove button (trash icon)
- After update:
 - Success message
 - Updated text is displayed
 - File appears in "Your Submitted Files" section with Download button

Test Case 1.6: View Submission Confirmation

Field	Description
Test Case ID	STS-001-TC-06
Test Title	Verify submission confirmation displays correctly
Test Priority	Medium
Pre-condition	Student has submitted assignment with text and file

Test Steps:

1. Refresh the assignment detail page
2. Scroll to "Your Submission" section
3. Verify all submission details

Expected Result:

- "Your Submission" section displays:
 - Submission timestamp
 - Status badge (Pending Grade / Graded)
 - Score (if graded) or "Pending Grade" message
 - "Your Submitted Text" section with content
 - "Your Submitted Files" section with:
 - File icon
 - Filename
 - Download button
 - Delete button
 - "Teacher's Feedback" section (empty if not graded, or with comment if graded)
 - "Peer Reviews" section (empty or with reviews if completed)

Test Case 1.7: Logout

Field	Description
Test Case ID	STS-001-TC-07
Test Title	Verify student can logout successfully
Test Priority	Medium
Pre-condition	Student is logged in on any page

Test Steps:

1. Click on user profile icon (circle icon) in top-right navigation
2. Click "Logout" in dropdown menu
3. Observe page behavior

Expected Result:

- Dropdown menu appears on icon click
- Logout option is visible
- After clicking Logout:
 - User is redirected to login page
 - Session token is cleared
 - Attempting to navigate to protected routes redirects to login