



Classync - Virtual Classroom Platform

System-Testing Report

Group - 33

Course: Software Engineering

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This report summarizes the system testing performed on our Classroom Platform “Classsync” project. System testing focused on black-box testing of major features such as login, courses, assignments, submissions, and notifications. Acceptance testing was also done to verify the full workflow from teacher to student.

In scope:

- Login
- Course creation & enrollment
- Assignment creation & submission
- Grading
- File uploads
- Notifications

Not in scope:

- Advanced analytics
- Performance testing
- Mobile app (if not built)

Test Environment :-

Browser used: Safari/Chrome

Accounts used:

- Teacher: *vohraatik1@gmail.com*
- Student: *tanujkanani23@gmail.com*

System URL or app version: <https://se-virtual-classroom-platform.vercel.app/>

Test Cases and their results :-

<https://docs.google.com/spreadsheets/d/1JGSo47NEhZdzXZjuLg9jBWIWtJLBK7qFQCMVSeF-HLo/edit?usp=sharing>

Requirements :-

A	B
Requirement ID	Requirement Description
REQ-001	User authentication: system shall allow users to log in and log out securely.
REQ-002	Course management: teachers shall be able to create, edit, and delete courses.
REQ-003	Enrollment: students shall enroll in courses using an enrollment code and withdraw.
REQ-004	Assignment management: teachers shall create/edit/delete assignments with deadlines and attachments.
REQ-005	Submission handling: students shall submit assignments (file/text) and resubmit before deadline.
REQ-006	Grading: teachers shall grade submissions, edit grades, and control grade visibility.
REQ-007	File resources: system shall support course resource uploads and downloads with type/size checks.
REQ-008	Notifications: system shall deliver in-app (and optional email) notifications for assignment/events.
REQ-009	Chat: each course shall have a simple class chat supporting plain text messages for members.
REQ-010	Reports: system shall generate basic reports like grade distributions as CSV/PDF as supported.

https://docs.google.com/spreadsheets/d/1E5mIFslgwgsY9LeFHYz-OdZvaPbJvAb2rNn_6xxDdfE/edit?usp=sharing

Evidences :-

<https://drive.google.com/drive/folders/1HDf-4J3noulvuwtvhp3WbAPHVZZlwRa?usp=sharing>

Acceptance Tests :-

AT - 01 :- Full teaching workflow (create -> enroll -> assign -> submit -> grade

Preconditions :- Teacher account and two student accounts exist. Clean test course not present.

Steps :-

- 1) Login as teacher
- 2) Create a new course with title 'AT01_Course_<initials>_<date>'.
- 3) Generate enrollment code for the course and copy it.
- 4) Login as student1 (student1@test.com) and enroll using the code.
- 5) Login as student2 (student2@test.com) and enroll using the code.
- 6) As teacher, create an assignment with title 'AT01_HW1', attach a small PDF, set a deadline 2 days from now, and save.
- 7) As student1, download the attachment and submit a valid PDF before the deadline.
- 8) As teacher, open student1's submission, enter grade (e.g., 85/100) and feedback, save and release the grade.
- 9) As student1, verify notification and view the grade & feedback.

Expected Result :-

Course created and visible in teacher list; students enroll successfully; assignment visible to enrolled students; submission recorded with timestamp; teacher can grade and release; student sees grade & feedback.

Status :- Pass

AT - 02 :- Enrollment and roster management

Preconditions :- Teacher account exists; course not yet created for this AT.

- Steps :-
- 1) Login as teacher and create course 'AT02_Roster_<initials>_<date>'.
 - 2) Generate enrollment code and share it.
 - 3) Login as student1 and student2 and enroll using the code.
 - 4) As teacher, open Roster and verify both students listed.
 - 5) Make sure there are 2 participants only.
 - 6) As student2, withdraw from course.
 - 7) As teacher, refresh roster and verify student2 removed.

Expected Result :- Both students appear in roster; after withdrawal student2 no longer appears in roster.

Status :- Pass

AT - 03 :- File upload/download integrity & limits

Preconditions :- Teacher and student accounts present; course with resource area available.

- Steps :-
- 1) Login as teacher to course 'AT03_Files_<initials>_<date>'.
 - 2) Upload a small PDF file (e.g., syllabus.pdf) as a course resource.
 - 3) As student, download the resource and open to confirm content intact.
 - 4) As student, attempt to upload an unsupported file type (e.g., .exe) to an assignment or chat and verify rejection.
 - 5) As student, attempt to upload a file larger than the allowed maximum size and verify rejection message.

Expected Result :-

Valid uploads succeed and downloaded files are intact.

Status :- Pass

AT - 04 :- Notifications & access control

Preconditions :- Teacher and student accounts exist; student enrolled in the course used.

- Steps :-
- 1) As teacher, post an announcement and create a small assignment in the course 'AT04_Notify_<initials>_<date>'.
 - 2) As student, check in-app notifications and open the classroom to reach the announcement/assignment.
 - 3) As student, attempt to access a teacher-only page (e.g., /create-course) by direct URL.
 - 4) Verify that the direct access is blocked (403 or redirect to unauthorized/login).

Expected Result :- Student receives in-app notification opens the correct page; unauthorized access attempts are blocked appropriately.

Status :- Pass