

Student User Stories

1) View Assignments

As a student,

I want to view and download assignment instructions,
so that I know what I need to do.

Acceptance Criteria:

- The student can select an assignment from a list in a module
- The system allows file downloads

2) Submit Assignments

As a student,

I want to submit my assignment to a module,
so that my code can be automatically marked.

Acceptance Criteria:

- The student can select an assignment from a list in a module
- The system allows file uploads
- The submission is stored and queued for auto-marking
- The student is notified once marking is complete

3) View Feedback and Marks

As a student,

I want to see my marks and feedback after submitting my assignment,
so that I can understand how I performed and improve.

Acceptance Criteria:

- The system displays marks out of a total score
- Feedback includes test results, terminal output and comments
- Students can view previous submissions and their respective feedback

Tutor User Stories

1) View Student Submissions

As a tutor,

I want to view student submissions for an assignment,
so that I can assist students with their issues.

Acceptance Criteria:

- Tutors can access a list of student submissions for modules they are assigned to
- Each submission shows the student's name, timestamp, and status
- Tutors cannot modify the student code or marks

2) View Terminal Output

As a tutor,

I want to see the terminal output of a student's submission,

so that I can better understand what went wrong and provide help.

Acceptance Criteria:

- Tutors can view the console output (stdout/stderr) from a student's code execution
- Output includes test results and any runtime errors
- Tutors cannot rerun or modify the execution

Lecturer User Stores

1) Manage Assignments

As a lecturer,

I want to create an assignment in a module,
so that students can submit their work for marking.

Acceptance Criteria:

- Lecturer can choose the module and create a new assignment
- Students linked to the module can see the new assignment

2) Submit Memo Code

As a lecturer,

I want to upload my memo code solution,
So that the system can automatically generate a testing framework for student marking.

Acceptance Criteria:

- The lecturer uploads one working solution file

3) Choose Testing Algorithm

As a lecturer,

I want to choose between RNG, Code Coverage or GATLAM algorithm,
so that the appropriate testing framework is generated for student submissions.

Acceptance Criteria:

- The lecturer is presented with the three algorithm options when creating an assignment
- The system applies the selected algorithm to generate the testing framework

4) Detect Plagiarism

As a lecturer,

I want to view plagiarism reports for assignments,
so that I can identify and address cheating among students.

Acceptance Criteria:

- A plagiarism report is available for each assignment after student submissions
- The report highlights matching submissions and a similarity score

Admin User Stories

1) Access All Tools

As an admin,

I want access to all features available to students, tutors and lecturers, so that I can manage and oversee the entire system.

Acceptance Criteria:

- Admins can view and manage all modules, users, assignments, and submissions

2) Manage User Permissions

As an admin,

I want to change the roles and permissions of any user, so that I can ensure correct access levels are assigned.

Acceptance Criteria:

- Admins can view a list of all users with current roles
- Admins can change a user's role

3) Manage Modules

As an admin,

I want to create modules, so that I can assign new lecturers to them

Acceptance Criteria:

- Admins can create modules and assign lecturers to them