

## **Test Plan for Code Drop**

### **Overview:**

This test plan is made up of Test cases that closely follow the Use Cases already provided, but they will possibly include more steps and details to ensure proper testing of all the functionality of each feature of the system. In addition, there will be more cases added to test each individual interactive UI element or any other function of CodeDrop™. These test cases are intended to be used when the testing begins, and some of the details will be filled out then, as needed, such as bugs and status.

### **Test Case Format:**

#### **Name:**

#### **Description of Feature to Test:**

#### **Preconditions (if any):**

#### **Steps to Follow:**

*The following happens either during or after the step execution:*

#### **Bugs Found:**

#### **Status:**

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

#### **Additional Notes:**

**Estimated time to complete all tests: *TBD***

**Test Cases:**

**Name:** Log in as a user

**Description of Feature to Test:** Logging in as a specific user, different users have different roles and permissions depending on what was set when the account was created.

**Preconditions (if any):** N/A

**Steps to Follow:**

1. Type in User name and password for the User.
2. Click the "Login" button.

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Add an assignment to a course

**Description of Feature to Test:** Instructors have the ability to add assignments from the instructor-management page which can be seen and completed by users enrolled in the course the assignment is added to.

**Preconditions (if any):** Logged in as Instructor and navigated to instructor-management page.

**Steps to Follow:**

1. Click "expand" (the plus symbol) for the desired course.
2. Click "Add"
3. Edit all appropriate information
4. Add tests (by clicking the plus/add button) with appropriate information for each one
5. Click "save"

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Grade a submitted assignment as Instructor

**Description of Feature to Test:** Users set as Instructor can grade submitted assignments from students from the assignment-grading/viewing page.

**Preconditions (if any):** Logged in as Instructor, navigated to instructor-management page.

**Steps to Follow:**

1. Click on “Expand” (the plus symbol) for the desired course.
2. Click “Expand” on the desired student.
3. Click on the most recently submitted assignment.
4. Expected and given results for the tests are displayed.
5. Leave comments in the comment text box for each test result.
6. Submit the assignment grade by clicking “save”.

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Grade a submitted assignment as a Marker or Instructor

**Description of Feature to Test:** Users set as Marker or instructor can grade submitted assignments from students from the assignment-grading/viewing page.

**Preconditions (if any):** Logged in as Marker or instructor

**Steps to Follow:**

1. Click on “Expand” (the plus symbol) for the desired course.
2. Click “Expand” on the desired student.
3. Click on the most recently submitted assignment.
4. Expected and given results for the tests are displayed.
5. Leave comments in the comment text box for each test result.
6. Submit the assignment grade by clicking “save”.

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

☐ *Passed*

☐ *Failed (Reason: \_\_\_\_\_)*

☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Make an edit to an individual student’s assignment as an Instructor.

**Description of Feature to Test:** Instructors have the ability to edit an existing assignment belonging to an individual student from the assignment-listing page.

**Preconditions (if any):** Logged in as Instructor

**Steps to Follow:**

1. Click “expand” (the plus symbol) for the desired course
2. Click on the desired assignment.
3. Click on “edit” for the student who’s assignment is to be edited.
4. Make edit to assignment details (test all fields)
5. Click “save”

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Make an edit to an assignment (globally) as an Instructor.

**Description of Feature to Test:** Instructors have the ability to edit an existing assignment belonging to an entire course.

**Preconditions (if any):** Logged in as Instructor

**Steps to Follow:**

1. Click “expand” (the plus symbol) for the desired course
2. Click on the desired assignment.
3. Click on “edit assignment”
4. Make edit to assignment details (test all fields)
5. Click “save”

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Compile and test code as Student

**Description of Feature to Test:** A student has the ability to write, compile and test code in the student-testing page.

**Preconditions (if any):** Logged in as student, navigated to student-coding page.

**Steps to Follow:**

1. Type simple code in text box provided.
2. Click “compile”
3. Click “Run”
4. View results in the console window.

**The following happens either during or after the step execution:**

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Test code against expected results for an assignment as a Student.

**Description of Feature to Test:** A student has the ability to, after writing code, to test against the expected results and then submit their code for the assignment. Note: The system saves automatically every [insert interval of time here] so there is no need to click a “submit” button, once the due date is reached the assignment editing locks for the student and the latest version is the one submitted for grading.

**Preconditions (if any):** Logged in as student, navigated to student-testing page, have code written in the student-coding page.

**Steps to Follow:**

1. Click on “Test”
2. Run each test against the expected results by clicking “run”

**The following happens either during or after the step execution:**

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Download archive with each type of permissions (excluding admin)

**Description of Feature to Test:** The ability to download archive of assignment files is available for each kind of user permissions (excluding admin) for a given course.

**Preconditions (if any):** Logged in as either student, instructor or marker, navigated to instructor-assignmentview or student-coding page respectively. There is at least one file available to download.

**Steps to Follow:**

1. Click “download archive”

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Upload file containing pre-written code as a Student from either main page or coding page

**Description of Feature to Test:** A student can choose to upload a file containing code that they have made elsewhere and use it as code for their assignment.

**Preconditions (if any):** Logged in as a student, navigated to the student-coding page OR the User-mainpage.

**Steps to Follow:**

1. Click "Upload"
2. Choose desired file

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Create user as Administrator

**Description of Feature to Test:** The administrator can create users and add them to the system.

**Preconditions (if any):** Logged in as Administrator

**Steps to Follow:**

1. Click "add user"
2. Fill out required information about user
3. click "OK"

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.



- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Create course as an Administrator

**Description of Feature to Test:** The administrator can create courses and add them to the system

**Preconditions (if any):** Logged in as an administrator, at least one user created

**Steps to Follow:**

1. Click “add a course”
2. Fill out required information about course
3. Choose at least one user to add to the course and assign one or more permissions
4. Click “OK”

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Delete course as an Administrator

**Description of Feature to Test:** The administrator can delete created courses from the system.

**Preconditions (if any):** Logged in as an administrator, at least one course created

**Steps to Follow:**

1. Press the “X” button next to the desired course
2. The course is deleted

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Delete User as an Administrator

**Description of Feature to Test:** The administrator can delete created users from the system.

**Preconditions (if any):** Logged in as an administrator, at least one course created

**Steps to Follow:**

1. Press the “X” button next to the desired user
2. The user is deleted

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*

☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** Delete a file for an assignment as a Student

**Description of Feature to Test:** The students can delete files from the system that they have uploaded for an assignment from the student-coding page.

**Preconditions (if any):** Logged in as an administrator, navigated to student-coding page, at least one file uploaded for an assignment

**Steps to Follow:**

1. Press the “X” button
2. The file is deleted

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

☐ *Passed*

☐ *Failed (Reason: \_\_\_\_\_)*

☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**

**Name:** View an assignment as Student, marker or instructor

**Description of Feature to Test:** The users can view assignments by clicking them on the user-mainpage.

**Preconditions (if any):** Logged in as student, instructor or marker

**Steps to Follow:**

1. Click the desired assignment

2. Make sure the appropriate assignment has loaded with all details

***The following happens either during or after the step execution:***

**Bugs Found:** To be filled out if applicable when test is run.

**Status:** Not started.

- ☐ *Passed*
- ☐ *Failed (Reason: \_\_\_\_\_)*
- ☐ *Paused (Reason: \_\_\_\_\_)*

**Additional Notes:**