Use Cases

Name: Registered user compiles through the cloud.

User story addressed: US-13

Precondition: The cloud are capable of executing files written by multiple languages(Java, C, C++,etc).

Main Scenario:

1.User chooses his/her own favorite language to code, like Java, C, C++, maybe others.

2.The cloud can save the code in a specific interval.

3.The cloud highlights syntax and matches bracket based on the language the user chose.

4.The user runs the program.

5a.The cloud return the output.

6a.The cloud stores the class/executable files into user’s account after the user has done.

7.User downloads the files from the cloud.

Alternate Scenario:

5b.The code has errors, the cloud report the error and the line in which the error lies.

6b. User modifies the code and rerun the code.

Postcondition: User must keep the files in the appropriate locations in the account.

Name: Registered user download compile object files to execute written code.

User story addressed: US-14

Precondition: User has complied objected files in the account to download.

Main Scenario :

1. User logs into the account.

2. User goes to the location that contains the compile files.

3. User chooses the download option.

4. User chooses the file(s) to download, multiple choice of files is available.

5. User clicks on download button.

6. User chooses the local directory.

7a. User downloads the file(s).

Alternate Scenario:

7b. There are name conflicts between some of the file on the cloud and the local file. System asks user which way to choose: replace or cancel.

8. User chooses cancel.

9. User resolves the name conflicts and downloads the files.

Postcondition: User downloads the files to the appropriate locate so that the files are executable locally.

Name: Registered user uploads/downloads files to share files with other users.

User story addresses: US-15

Precondition: The GUI interface must be connected to the cloud.

Main Scenario:

1. User opens the interface.

2. User logs into account through interface.

3. User clicks on upload/download button to upload/download files.

4. A window that shows the local directories or the cloud directories pops up.

5. User chooses the file(s) from the directory, multiple choice of files is available.

6a. User chooses the appropriate directory to upload/download to.

7a. User uploads/downloads the file(s).

Alternate Scenario:

6b. There are name conflicts between upload/download files and local/cloud files. User has two choices: replace or cancel.

7b. User chooses cancel.

8. User resolves the name conflicts and upload/download file(s).

Postcondition: Other designated users have authority to access the uploaded/downloaded file(s).

Name: Registered user execute command line application to test written code.

User story addressed: US-16

Precondition: The user can input the parameters of the code through GUI interface to the cloud and can retrieve the output given by the cloud.

Main Scenario:

1. User execute command line on terminal.

2. GUI interface pops up.

3. User chooses the language.

4. User compiles through GUI interface.

5. The interface highlights syntax and matches bracket based on the language the user chose.

6. User types the input of the code.

7a. User clicks on run button.

8a. User receives the output.

Alternate Scenario:

7b. There are errors or the inputs do meet the requirement (the number or the type of inputs doesn’t match), errors are reported or the input problem is reported, and the line in which the errors

lie is also shown.

8b. User fixes the errors or the input problem and rerun the code.

Postcondition: User can sign out the account and close the GUI interface through terminal.

Name: Student submits assignments to be marked.

User story addressed: US-17

Precondition: Student must submit the assignment through the right account.

Main Scenario:

1. Student opens GUI interface.

2. Student logs into the appropriate account through the interface.

3. Student chooses the assignment.

4a. Student clicks on submit.

5a. Student submits the assignments.

Alternate Scenario:

4b. Student modifies the assignment before the deadline, and submits the assignments again.

5b. Student has only submitted part of the assignment, and then submits the rest.

Postcondition: The mark must figure if the student submits more than one time, if the last time is the rest of the assignment or the modified assignment, so that he/she can know the previous submission can be disregarded.

Name: Registered user runs GUI application.

User story addressed: US-18

Precondition: All the files to be compiled into exe or jar must be in the same directory.

Main Scenario:

1. User opens GUI interface.

2. User logs into the appropriate account.

3. User chooses the files to be compiled.

4. User chooses the compiled type: exe or jar.

5a. User clicked on compile button.

6a. User compiles files.

7a. User runs the files.

Alternate Scenario:

5b. User creates a new directory.

6a. User compiles files into the new directory.

7b. User runs the files in the new directory.

Postcondition: The compiled files must be executable through the UI interface.