**User Requirements and Specifications**

**Summary**: This document will describe what the Homework project should do and requirements. The main part is to download the assignment to the user’s computer, compile the assignment in the backstage, display the result of assignment in the textarea. Then send the grade and the comment about the assignment to the server.

1. Login: Compare the userId with the database server of all the teachers and TAs, then if it exist, allow to operate the assignments.

*Input*: UserId (TA or teacher)

*Output*: Login to the page

1. Download: User(Teacher or TA) should be able to download the assignments (type: JSON i.e. get the JSON from the server and download that assignments).

*Input*: assignmentId, studentId, file(.pde, .java, .cpp, .html), dueDay, courseName, url, etc.(JSON from server)

*Output*: download the file

1. Compile: User should be able to compile the assignments (type: file).

*Input*: assignmentId, studentId, file(.pde, .java, .cpp, .html).

*Output***:** Compile the file

1. Display: After compilation display the result on the screen.

*Input*: result of compilation

*Output*: display result

1. Comment and Grade: User should be able to comment on the assignment.

*Input*: assignmentId, studentId, file(.pde, .java, .cpp, .html), dueDay, courseName, url, etc.(JSON from server)

*Output*: comment and grade

**JSON file for the assignments:**

Assignment: {

{

“assignmentId”: “12345678”,

“studentId”: “1234455”

“FileType”: “pde/java/cpp/html”,

“dueDay”: [

“Month”: “January”,

“Day”: “29th”,

“Year”: “2017”

“Time”: “11:59 pm”

]

“courseName”: “CPE640”,

“Url”: “”

“grade”: “0”,

}

{},{},

}

**JSON file for the Students:**

{ Student : {

“studentId” : “ 1234455”,

“studentName” : “blabla”,

“CWID” : “ 10410876”,

“mailAddress” : “\*\*\*\*@stevens.edu”,

},{},

}

**JSON file for Course:**

Course : {

“courseName” : “Software Engineering -I”,

“courseId” : “CPE640S”,

“Instructor” : “”,

“studentCapacity” : “”,

“TA” : “”,

}