**Software Design**

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1. Unzip the zip file.
2. Open netbeans and import both CRUD-GradeBook-ssikka and CRUD-GradeBook-ssikka\_client projects
3. Clean and build both the projects
4. Run the server project CRUD-GradeBook-ssikka and then run the client project assignment1\_client (GradeBook\_UI.java contains the main function).

Here the student id is generated randomly.

Test Cases

Create – Select Instructor and tap create radio button.

1)    201, CREATED -  add all the details and then tap submit .

2)    409, CONFLICT – This occurs when student name and workitem already exists with another id.

3)    400, BAD REQUEST – Leave student name empty

4)     500, Internal server error- occurs when there is a runtime exception

Read – Select read radio button under student or instructor

1. 200, OK – enter a student Id and workitem and click submit
2. 410 Gone- occurs when no information has been created and user is reading an id and workitem.
3. 404, NOT Found- occurs when a student id does not exist

Update- Select update radio button under instructor

1. 200 OK- enter a student id that exists and all other details. Finally click on submit
2. 409, Conflict- when the entered student id and workitem does not exist.
3. 400 bad request- occurs when student name and workitem is not entered

Appeal- Select appeal radio button under student

1. 200 OK- enter a student id that exists and all other details. Finally click on submit
2. 409, Conflict - when the entered student id does not exist.
3. 400 bad request- occurs when student name and work student is not entered

Delete- Select delete radio button under instructor

1. 404 not found – when entered id is not found
2. 409 GONE- when there is not record in the system and user is reading a studentid and workitem
3. 204 no content- when the entered id is successfully deleted