

**Student Information:**

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Subject - CSE 564 Software Design  
Assignment Name - Hypermedia Services Assignment  
Assignment Number - 3

**Submission:**

File Name : *HATEOAS-Appeals-stalele1-NetBeans.zip*  
Above file contains two projects in two folders  
    *a. HATEOAS-Appeals-stalele1-NetBeans-Server*  
    *b. HATEOAS-Appeals-stalele1-NetBeans-Client*

and files

- a. SampleOutput\_Assignment3\_SoftwareDesign
- b. TransitionDiagram.jpg

**How to run:****Server**

- Load the given project "*HATEOAS-Appeals-stalele1-NetBeans-Server*" in NetBeans.
- After successfully loading "*HATEOAS-Appeals-stalele1-NetBeans-Server*" project, right click on project name and click on "Run" to start the server.
- Start the server using - "*Glassfish Server 1.1*".

**Client**

- Load the given project "*HATEOAS-Appeals-stalele1-NetBeans-Client*" in NetBeans.
- After successfully loading "*HATEOAS-Appeals-stalele1-NetBeans-Client*" project, right click on the file "Main.java" which is present inside "*com.mycompany.hateoas.appeals.stalele1.netbeans.client*" package inside Source packages and click on the "Run File" option.

(*Note* : This Client works as a test driver, so the client application runs through its scenarios one after the other without having input from an end user. It displays enough information so that the person monitoring the client can determine

- a. Which test scenario is being execute
- b. Where they are in the execution,
- c. Determine the accuracy of the data being passed back to the client by the service
- d. Determine the accuracy of the data being passed around between resources by the service.)

**Test Cases :**

Client runs the following test cases.

**Case 1. Happy case**

I have added two happy cases.

**HappyTestCase1**

- It first creates GradeItem.
- Professor grades that gradeItem.
- Student creates appeal with his some appeal comments.
- Student then submits the appeal to the professor.
- Professor reviews the appeal and updates student's grade.

**HappyTestCase2**

- It first creates GradeItem.
- Professor grades that GradeItem.
- Student creates appeal with his some appeal comments.
- Student then submits the appeal to the professor.
- Professor reviews the appeal and does not update student's grade but posts some remarks.

**Case 2. Abandoned case**

- It first creates GradeItem.
- Professor grades that GradeItem.
- Student can make appeal to the professor.
- Before submitting appeal, student abandons it.

**Case 3. Forgotten case**

- It first creates GradeItem.
- Professor grades that gradeItem.
- Student creates appeal with his some appeal comments.
- Student then submits the appeal to the professor.
- Student follows up with professor with some follow up comments.

**Case 4. Bad start**

- It first creates GradeItem.
- Professor grades that GradeItem.
- While adding appeal, it uses badURI (that does not exist.)
- Server responds with 404 - bad request.

**Case 5. Bad ID**

- It first creates GradeItem.
- Professor grades that gradeItem.
- Student creates appeal with his some appeal comments.
- Student then submits the appeal to the professor.
- Student follows up with professor with some Bad ID.
- Server responds with 404 - bad request.

**AppealStatus:**

Different Appeal statuses -

*UnGraded*

*GradedAndNoAppealCreated*

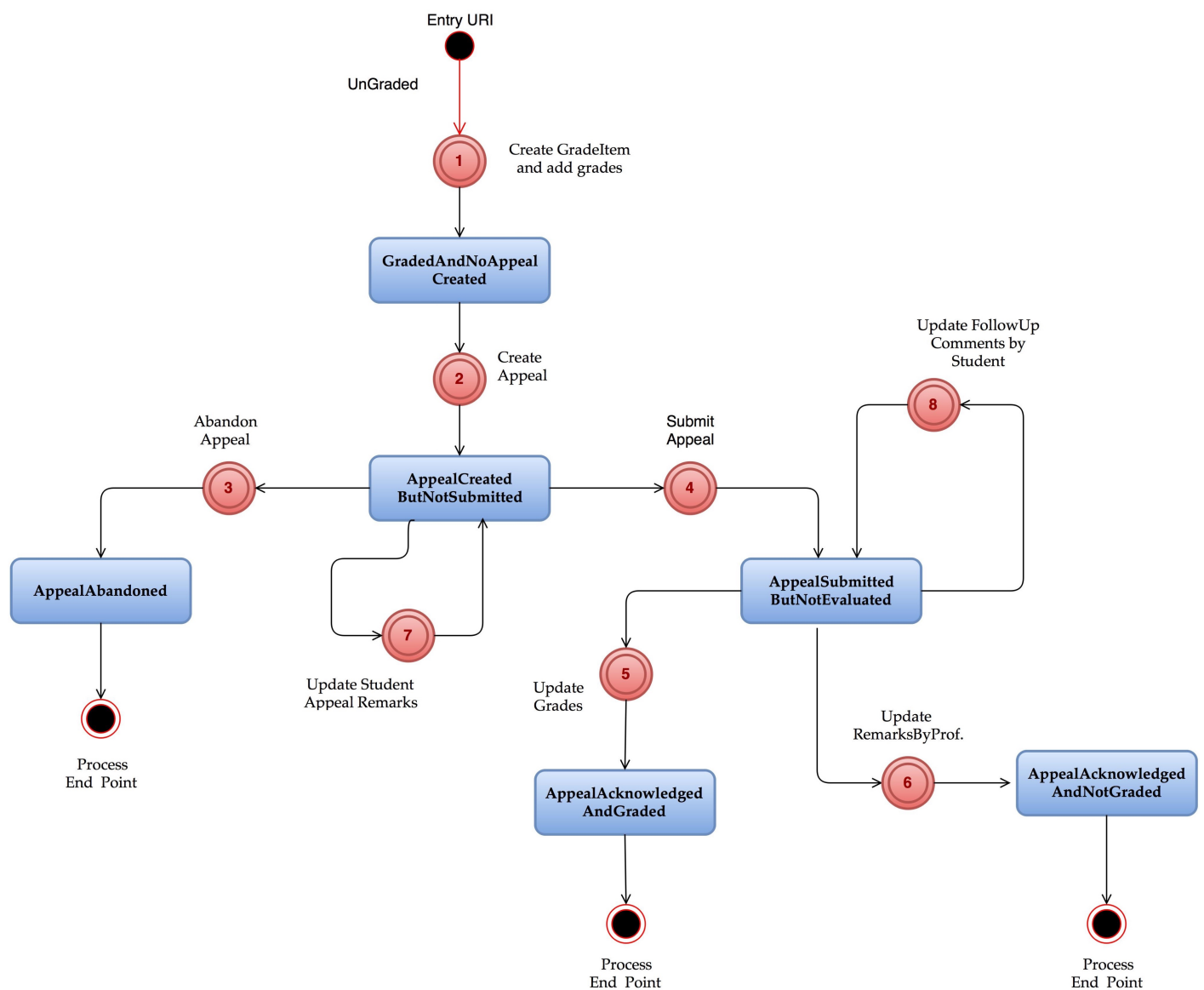
*AppealCreatedButNotSubmitted*

*AppealSubmittedButNotEvaluated*

*AppealAcknowledgedAndGradesUpdated*

*AppealAcknowledgedAndGradesNotUpdated*

*AppealAbandoned*

**StateTransitionDiagram:**

**URIs:**

- **AddGrade** - @POST  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/AddGrade>
- **GetAppeal** - @GET  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/GetAppeal/64c5a478-211c-46e9-b368-8f0331450957>
- **UpdateGrade** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/UpdateGrade/37ca7522-54d3-4ec8-838f-c90863fa40a5>
- **RemoveAppeal** - @DELETE  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/RemoveAppeal/64c5a478-211c-46e9-b368-8f0331450957>
- **AddAppeal** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/AddAppeal/64c5a478-211c-46e9-b368-8f0331450957>
- **SubmitAppeal** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/SubmitAppeal/64c5a478-211c-46e9-b368-8f0331450957>
- **UpdateAppealRemarks** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/UpdateAppealRemarks/64c5a478-211c-46e9-b368-8f0331450957>
- **RemarksByProf** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/RemarksByProf/37ca7522-54d3-4ec8-838f-c90863fa40a5>
- **FollowUp** - @PUT  
e.g. <http://localhost:8080/HATEOAS-Appeals-stalele1-NetBeans-Server/AppealResource/FollowUp/37ca7522-54d3-4ec8-838f-c90863fa40a5>

**Note:** Above URIs with *POST* and *PUT* uses **PayLoad** as XML representation of Appeal Object

e.g.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:appeal xmlns:ns2="http://schemas.restappeals.com">
  <ns2:studentName>ShryeasTalele</ns2:studentName>
  <ns2:grades>50</ns2:grades>
  <ns2:subjectName>CSE510</ns2:subjectName>
  <ns2:remarksByProf>StudyHard</ns2:remarksByProf>
  <ns2:appealRemarks>GiveMeMarks</ns2:appealRemarks>
  <ns2:appealStatus>AppealAbandoned</ns2:appealStatus>
</ns2:appeal>
```