Cairo University Faculty of Computers and Information



**CS352 – Software Engineering II**

**Phase 2 Template**

**2017**

**Project Team**

|  |  |  |
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# Restful API

**Login Service**

|  |  |
| --- | --- |
| **Service name** | **Check** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/check/{Email}/{Password}** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Email** | **Provided User Email which is unique** | | **Password** | **Provided user password** | |
| **Example request** | **GET**  **http://localhost:8080/check/amina.mahmoud34@yahoo.com/1234556673304** |
| **Example response** | **Returns a char defines if user is teacher or student**  **{"t"}** |

**Register Service**

|  |  |
| --- | --- |
| **Service name** | **addUser** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080//addUser/{name}/{password}/{Email}/{gender}/{type}** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Name** | **Provided user name** | | **Email** | **Provided User Email which is unique** | | **Password** | **Provided user password** | | **Type** | **Provided user type if a teacher or a student** | | **Gender** | **Provided user gender (M or F)** | |
| **Example request** | **GET**  **http://localhost:8080/check/amina/1234556673304/ amina.mahmoud34@yahoo.com/t/f** |
| **Example response** | **Returns true if user added else return false** |

**getUser Service**

|  |  |
| --- | --- |
| **Service name** | **getUser** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/getUser/{Email}** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Email** | **Provided User Email which is unique** | |
| **Example request** | **GET**  [**http://localhost:8080/getUser/amina.mahmoud34@yahoo.com**](http://localhost:8080/getUser/amina.mahmoud34@yahoo.com) |
| **Example response** | **{"Name":amina,"Email":"amina.mahmoud34@yahoo.com","password":"1233422335","gender":"f","type":"t"}** |

**Enroll in course service**

|  |  |
| --- | --- |
| **Service name** | **enrollInCourse** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/enrollInCourse/{studentEmail}/{crsCode}** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **StudentEmail** | **Provided Student Email (unique)** | | **crsCode** | **Provided the code of course student wants to enroll (unique)** | |
| **Example request** | **GET**  **http://localhost:8080/enrollInCourse/s@y.com/crs111** |

**Show all courses service**

|  |  |
| --- | --- |
| **Service name** | **getCourses** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/getCourses** |
| **Example request** | **GET**  **http://localhost:8080/getCourses** |
| **Example response** | **[{"name" :"Math", "description":"addNmbers","crsCode":"crs1","teacherEmail":"amina.mahoud34@yahoo.com"},…. ]** |

**Show teacher Courses' service**

|  |  |
| --- | --- |
| **Service name** | **getTeacherCourses** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ getTeacherCourses** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **TeacherEmail** | **Provided User Email which is unique** | |
| **Example request** | **GET**  **http://localhost:8080/ getTeacherCourses** |
| **Example response** | **[{"name" :"Math", "description":"addNmbers","crsCode":"crs1","teacherEmail":"amina.mahoud34@yahoo.com"},…. ]** |

# Add Course service

|  |  |
| --- | --- |
| **Service name** | **addCourse** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ addCourse/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **Provided course code (unique)** | |
| **Example request** | **GET**  **http://localhost:8080/ addCourse/crs2** |
| **Example response** | **Returns Boolean defines if course added or not** |

**Game Validation service**

|  |  |
| --- | --- |
| **Service name** | **validateGame** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ validateGame/gameName/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **gameName** | **Provided game Nme** | | **crsCode** | **Provided course code (unique)** | |
| **Example request** | **GET**  **http://localhost:8080/ validateGame/math/crs1** |
| **Example response** | **Returns Boolean true if game exists in database else false** |

**Get Game service**

|  |  |
| --- | --- |
| **Service name** | **getGame** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ getGame/gameName/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **gameName** | **Provided game Nme** | | **crsCode** | **Provided course code (unique)** | |
| **Example request** | **GET**  **http://localhost:8080/ getGame/test3/crs213** |
| **Example response** | **{"name":"test3","schema":"MCQ","levels":[],"crsCode":"crs213","description":"game desc","diffucltyLevel":"diff"}** |

**Show games in course**

|  |  |
| --- | --- |
| **Service name** | **getGameInCourse** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ getGameInCourse/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **Provided course code (unique)** | |
| **Example request** | **GET**  **http://localhost:8080/ getGameInCourse/crs213** |
| **Example response** | **[{"name":"test3","schema":"MCQ","levels":[],"crsCode":"crs213","description":"game desc","diffucltyLevel":"diff"}]** |

**Add Question service**

|  |  |
| --- | --- |
| **Service name** | **addQuestion** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ addQuestion/correct/quest/ans1/ans2/ans3/ans4/lvl/time** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **correct** | **Provided correct answer of question** | | **quest** | **Provided the question** | | **Ans1** | **Provided the 1st answer in MCQ** | | **Ans2** | **Provided the 2nd answer in MCQ** | | **Ans3** | **Provided the 3rd answer in MCQ** | | **Ans4** | **Provided the 4th answer in MCQ** | | **Lvl** | **Provided the level number where's the question exist** | | **Time** | **Provided the question time** | |
| **Example request** | **GET**  **http://localhost:8080/ addQuestion/ a/quest/ans1/ans2/ans3/ans4/1/5** |
| **Example**  **response** | **{"correctAnswer":"a","question":"1+1=","answer1":"2","answer2":"3","answer3":"8","answer4":"5","lvl":"1","time":5}** |

**Add level service**

|  |  |
| --- | --- |
| **Service name** | **addLevel** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ addLevel/lvlNum/gameName/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **lvlNum** | **Provided level number** | | **GameName** | **Provided the game name** | | **crsCode** | **Provided the course Code** | |
| **Example request** | **GET**  **http://localhost:8080/ addQuestion/ 5/math/crs1** |
| **Example**  **response** | **{"lvlNum":"5","gameName":"math":"crsCode":"crs1"}** |

**Add game service**

|  |  |
| --- | --- |
| **Service name** | **addGame** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ /addGame/gameName/diff/schema/crsCode/desc** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **diff** | **Provided level of difficulty of game** | | **GameName** | **Provided the game name** | | **crsCode** | **Provided the course Code(unique)** | | **Schema** | **Provided the game type (TF,MCQ)** | | **Desc** | **Provided a description of the game** | |
| **Example request** | **GET**  **http://localhost:8080/ addGame/science/hard/TF/scs1/true or false game** |
| **Example**  **response** |  |

**Play game service**

|  |  |
| --- | --- |
| **Service name** | **checkAnswer** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ checkAnswer/ans/Email** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Answer** | **Provided user answer to check if it's correct** | | **Email** | **Provided user email to keep track of his/her score** | |
| **Example request** | **GET**  **http://localhost:8080/** [**a/s@y.com**](mailto:a/s@y.com) |
| **Example**  **response** | **Returns Boolean true if answer is correct else false** |

**Cancel game Service**

|  |  |
| --- | --- |
| **Service name** | **cancel** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ cancel/ gameName/crsCode /teacherEmail** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **The course which the inside it** | | **gameName** | **The game that would be deleted** | | **TeacherEmail** | **The email of the teacher who will delete the game** | |
| **Example request** | **GET**  **http://localhost:8080/ cancel/crs1/game1/a.yahoo.com** |
| **Example**  **response** | **The game is cancelled successfully ~O~** |

**Un Cancel game service**

|  |  |
| --- | --- |
| **Service name** | **unCancel** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ unCancel/ gameName/crsCode /teacherEmail** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **The course which the inside it** | | **gameName** | **The game that would be deleted** | | **TeacherEmail** | **The email of the teacher who will Un delete the game** | |
| **Example request** | **GET**  **http://localhost:8080/ cancel/crs1/game1/a.yahoo.com** |
| **Example**  **response** | **The game is Uncancelled successfully ~O~** |

**Add collaborators service**

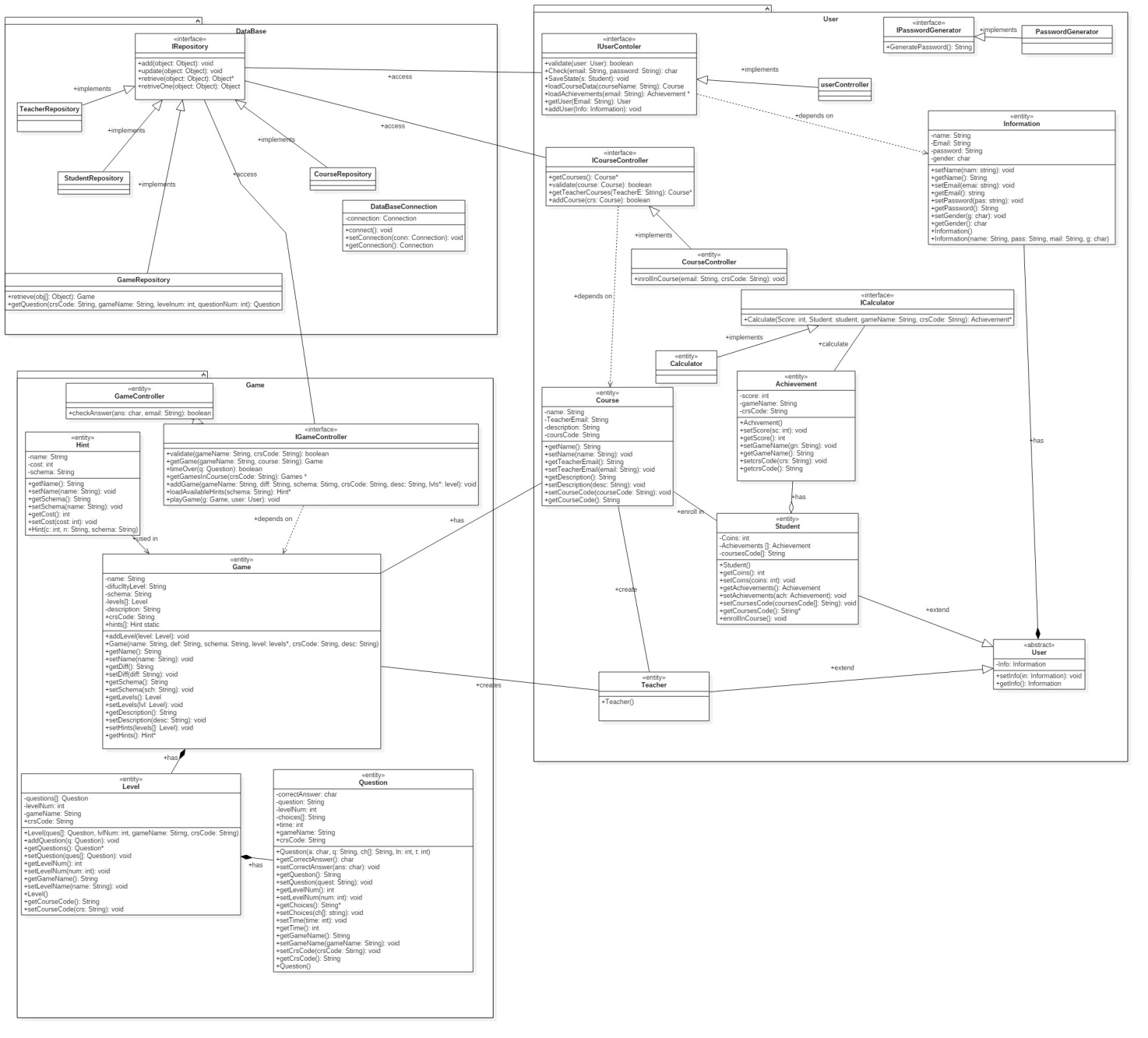
|  |  |
| --- | --- |
| **Service name** | **AddCollaborator** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ addCollaborator/gameName/crsCode/collaboratorEmail** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **The course which the game inside it** | | **gameName** | **The name of the game which the collaborator will add to** | | **collaboratorEmail** | **The email of the collaborator who will be added to the game** | |
| **Example request** | **GET**  **http://localhost:8080/ cancel/crs1/game1/a.yahoo.com** |
| **Example**  **response** | **The game is cancelled successfully ~O~** |

**Comment on game service**

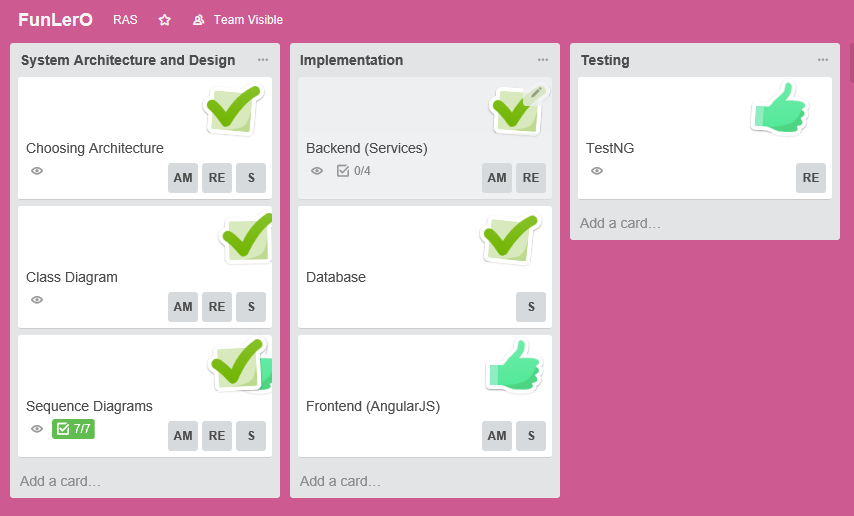
|  |  |
| --- | --- |
| **Service name** | **Add comment** |
| **Input type** | **GET** |
| **Service URL** | **http://localhost:8080/ addComment/commentText/email/gameName/crsCode** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **crsCode** | **The course which the game inside it** | | **gameName** | **The name of the game which commented on** | | **Email** | **The email of the user who add the comment** | |
| **Example request** | **GET**  **http://localhost:8080/ addComment/I love the/a.yahoo.com/game1/crs1** |
| **Example**  **response** | **The game is cancelled successfully ~O~** |

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# Class diagram design

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# Trello workspace screenshot



# Github repository link

[https://github.com/RandaAymanAhmedElBehery/SoftwareEngineering1Project](https://l.facebook.com/l.php?u=https%3A%2F%2Fgithub.com%2FRandaAymanAhmedElBehery%2FSoftwareEngineering1Project&h=ATMzgY-PbAR6yiSNDi12nK2y3RQmWP81MgMxW4kY7CA_XSqtjwxrRDgXcldZXdlKcKynUm9Ko8nQNtwzVAVE5eQpjYnYtHBDLycM2sRgPWUUVf0VTVHZ0N-Cl0Wcy_G8ir6NPvQ)