Cairo University Faculty of Computers and Information



**CS352 – Software Engineering II**

**Summer 2015**

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**Phase 2 SDS Template**

**2015**

**Project Team**

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# Your Restful API

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| --- | --- |
| **Service name** | **Register** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/user/register** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **name** | **Player name** | | **password** | **Player password** | | **email** | **Player email** | | **gender** | **Player gender** | |
| **Example request** | **POST**  [**http://connect4-1028.appspot.com/rest/user/register?uname=marwa&password=123456789&uemail=marwa@yahoo.com&gender=female**](http://connect4-1028.appspot.com/rest/user/register?uname=marwa&password=123456789&uemail=marwa@yahoo.com&gender=female) |
| **Example response** | **{"email":"marwa@yahoo.com","name":"marwa","password":"123456789", “gender”: “female”}** |

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| --- | --- |
| **Service name** | **Login** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/user/login** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **name** | **Player name** | | **password** | **Player password** | |
| **Example request** | **POST**  [**http://connect4-1028.appspot.com/rest/user/login?uname=marwa&password=123456789**](http://connect4-1028.appspot.com/rest/user/login?uname=marwa&password=123456789) |
| **Example response** | **{“ name":"marwa","password":"123456789”,”status”:”ok”}** |

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| --- | --- |
| **Service name** | **Create new game** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/game/createnewgame** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **username** | **The owner of the game or created it** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/game/createnewgame?username=marwa** |
| **Example response** | **{“ name":"marwa","id”:1”}** |

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| **Service name** | **Show available games** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/game/showavilablegames** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Username** | **Player that wants to show available games** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/game/showavilablegames?username=heba** |
| **Example response** | **{“gameID”:”1”,”creator”:”marwa”}** |

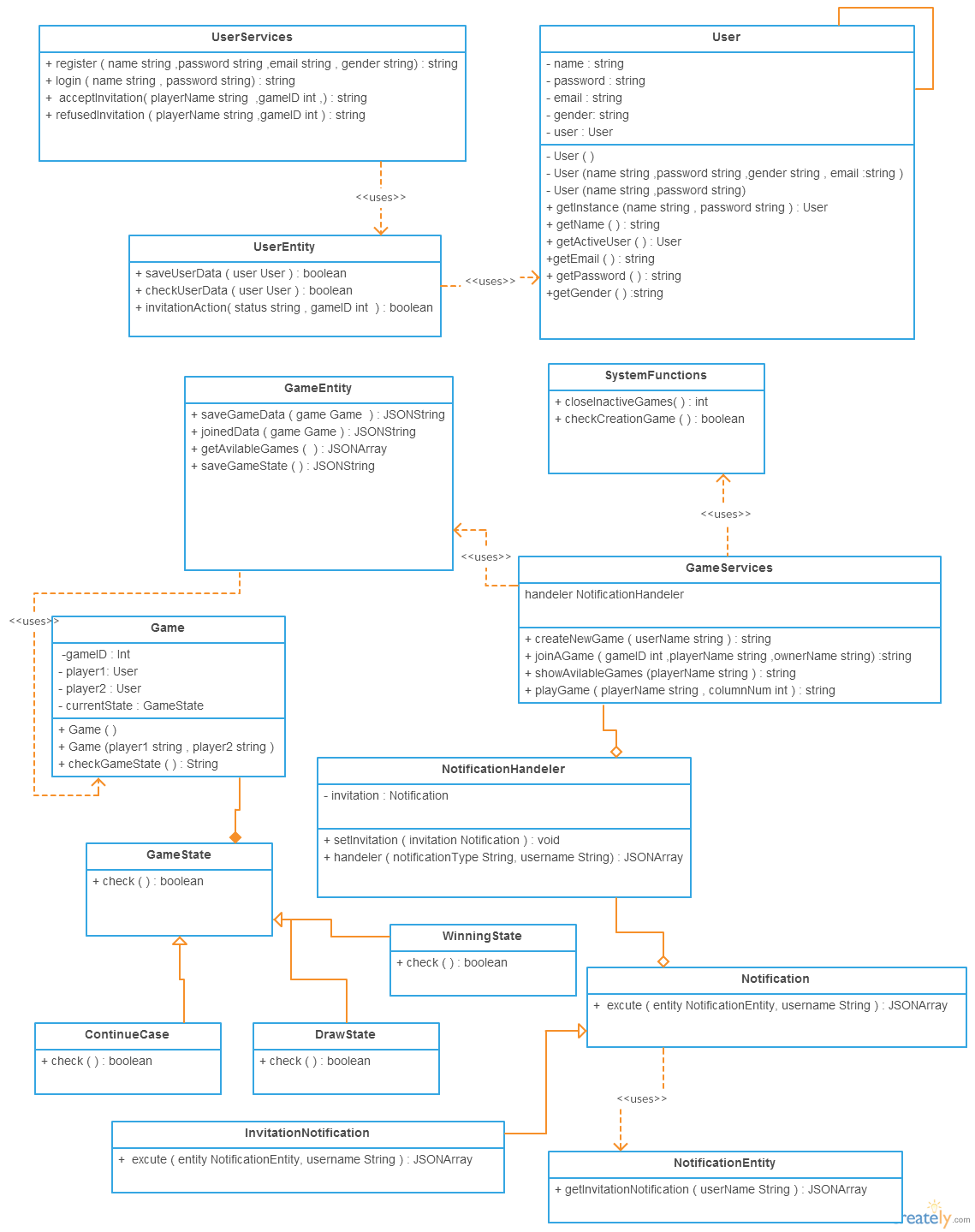
|  |  |
| --- | --- |
| **Service name** | **join a game** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/game/joinagame** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **gameID** | **The id of the available game that he wants to join.** | | **Ownername** | **Creator of the game** | | **playername** | **The player that he wants to join.** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/game/joinagame?gameID=1&ownername=marwa&playername=heba** |
| **Example response** | **{“status”: “wait to response”}** |

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| --- | --- |
| **Service name** | **Accept invitation** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/user/acceptinvitation** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **playername** | **Player that play the game.** | | **GameID** | **The ID of the game** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/user/acceptinvitation?playername=heba** |
| **Example response** | **{“status”: “now the game is started”}** |

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| --- | --- |
| **Service name** | **Refuse invitation** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/user/refuseinvitation** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **Playername** | **Player that play the game** | | **GameID** | **The ID of the game** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/user/refuseinvitation?playername=heba** |
| **Example response** | **{“status”: “now the game is refused”}** |

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| --- | --- |
| **Service name** | **Play game** |
| **Input type** | **POST** |
| **Service URL** | **connect4-1028.appspot.com/rest/game/playgame** |
| **Parameters** | |  |  | | --- | --- | | **NAME** | **Description** | | **playerName** | **Player that play the game** | | **ColumnNum** | **The column that the player chooses to play in it** | | **gameID** | **The ID of the game that they play.** | |
| **Example request** | **POST**  **http://connect4- 1028.appspot.com/rest/game/playgame?playername=heba&columnNum=3&gameID=1** |
| **Example response** | **{“status”: “continue playing”}** |

# Class diagram design

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# Github repository link

***https://github.com/meromarwa/Connect4.git***