Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

PlayWell

Software Design

HAO

December 2016

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# Team

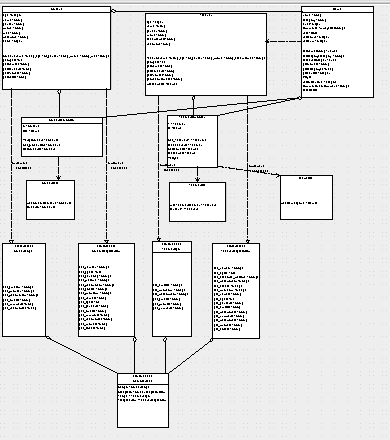
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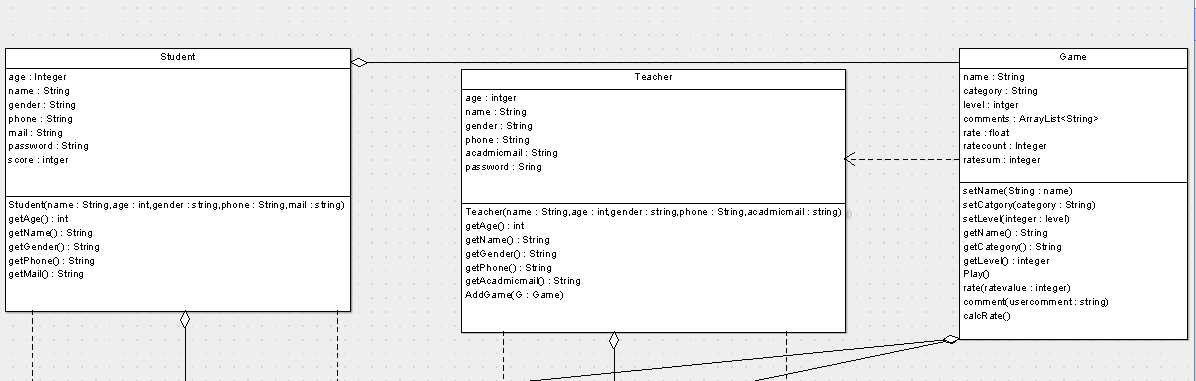
# Document Purpose and Audience

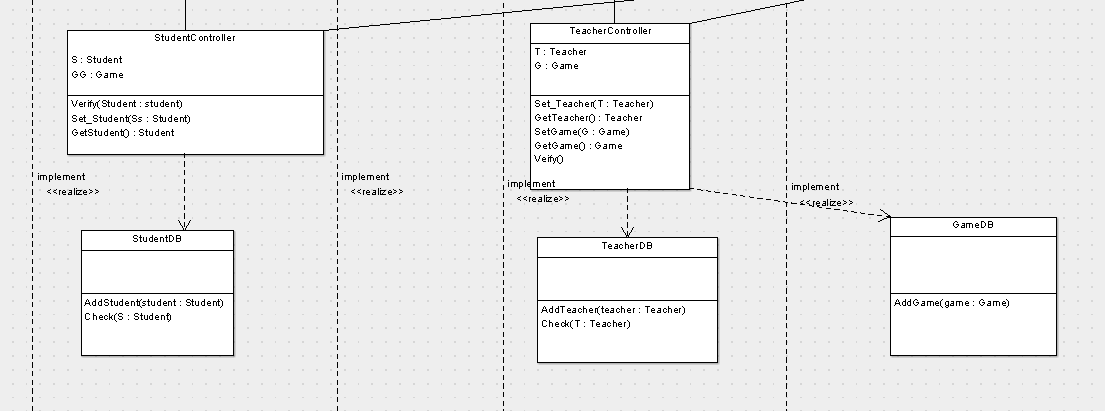
* **This document is written to illustrate class diagram and sequence diagram.**
* **This document should be read by (project manager and developers)**

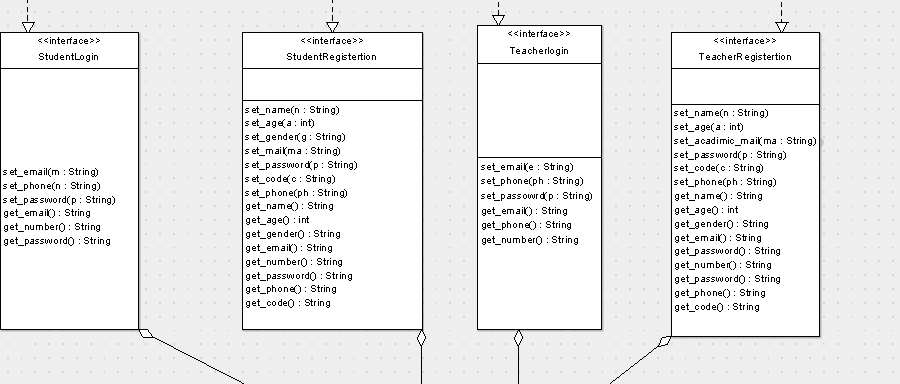
# System Models

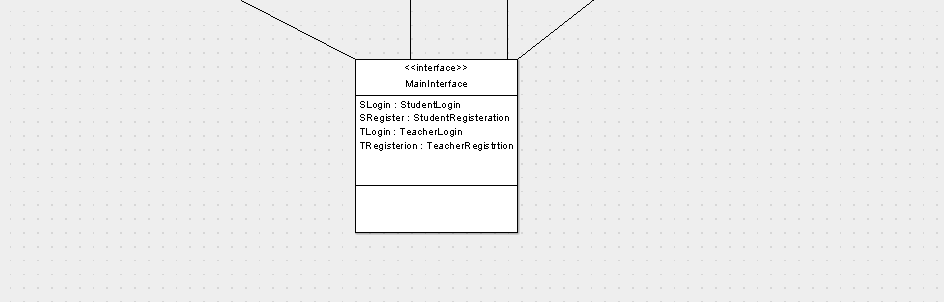
## I. Class diagrams

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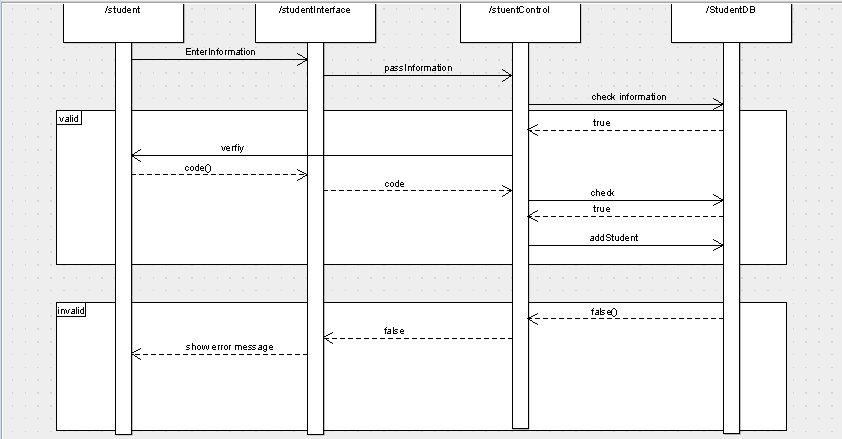
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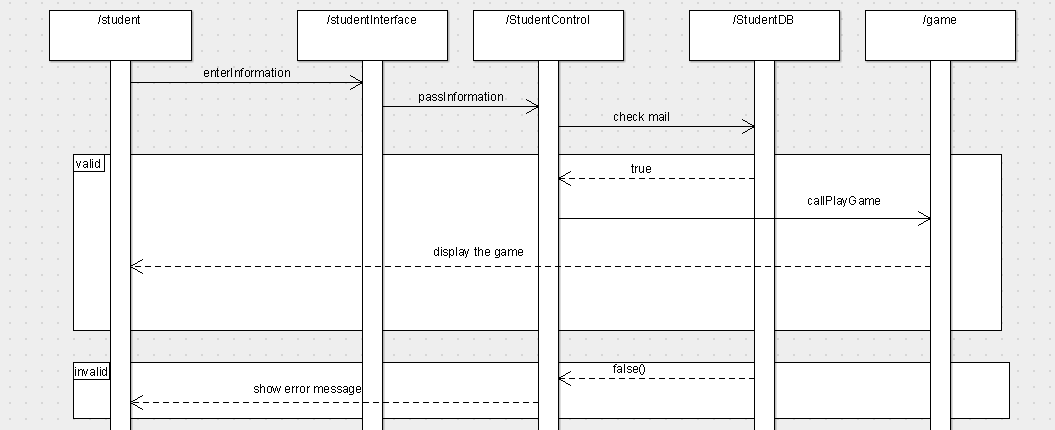
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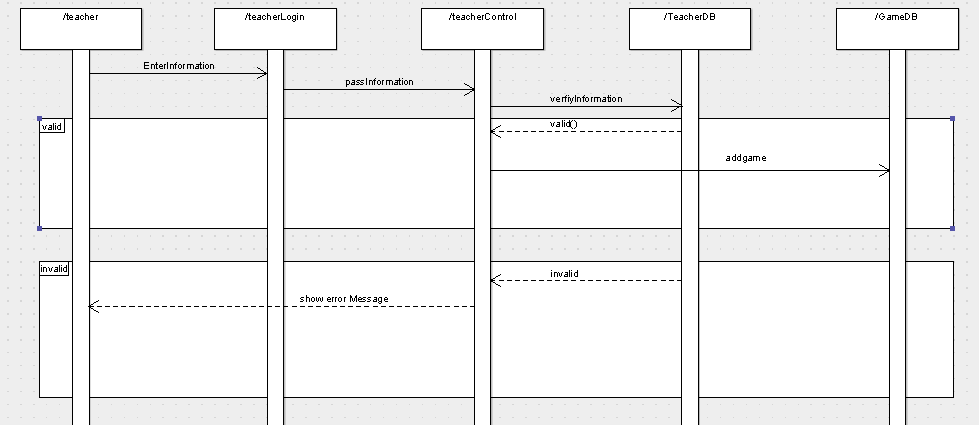
| **Class ID** | **Class Name** | **Description & Responsibility** |
| --- | --- | --- |
| 1 | Student | Describe student actions.  responsible for student information |
| 2 | Teacher | Describe teacher actions.  responsible for teacher information |
| 3 | Game | Represent game and how to play it and how the user will deal with it. |
| 4 | StudentController | Control student functions in the system and how the student will be verified in the system |
| 5 | TeacherController | Control teacher functions in the system and how the teacher will be verified in the system |
| 6 | StudentDB | Represent student database and how data managed in it |
| 7 | TeacherDB | Represent teacher database and how data managed in it |
| 8 | GameDB | Represent game database and how data managed in it |
| 9 | StudentLogin | Interface for student log in responsible for getting data from user to log in |
| 10 | TeacherLogin | Interface for teacher log in responsible for getting data from user to log in |
| 11 | StudentRegistretion | Interface for student to sign up responsible for collecting data from student to register |
| 12 | TeacherRegisteration | Interface for teacher to sign up responsible for collecting data from teacher to register |
| 13 | maininterface | Control system interface |

### Important Algorithm

## II. Sequence diagrams







### Class - Sequence Usage Table

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| E.g. Employee | 1, 3, 5 (means Seq Ids 1, 3, 5 used Employee class) | Save, GetData |
|  |  |  |

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Class diagram | *Omar , abdel rahman , hossam* |
| Sequence diagram | *Abdel Rahman ,abdullah* |
| Templet | *hossam* |

# Authors

* Hossam

***Github***

[*https://github.com/hussamEL-Hwary/Game-platform.git*](https://github.com/hussamEL-Hwary/Game-platform.git)