Cairo University  
Faculty of Computers and Information



**CS251**

**Software Engineering I**

Project Name

Software Design

Team Names

Month & Year

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# Team

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# Document Purpose and Audience

**Target audience:**

**- Dr. Amr Kamel**

**- TA. Mohammed Samir**

**Document purpose:**

**This document is going to address the functional requirements in our website, it also will address the requirement elicitation.**

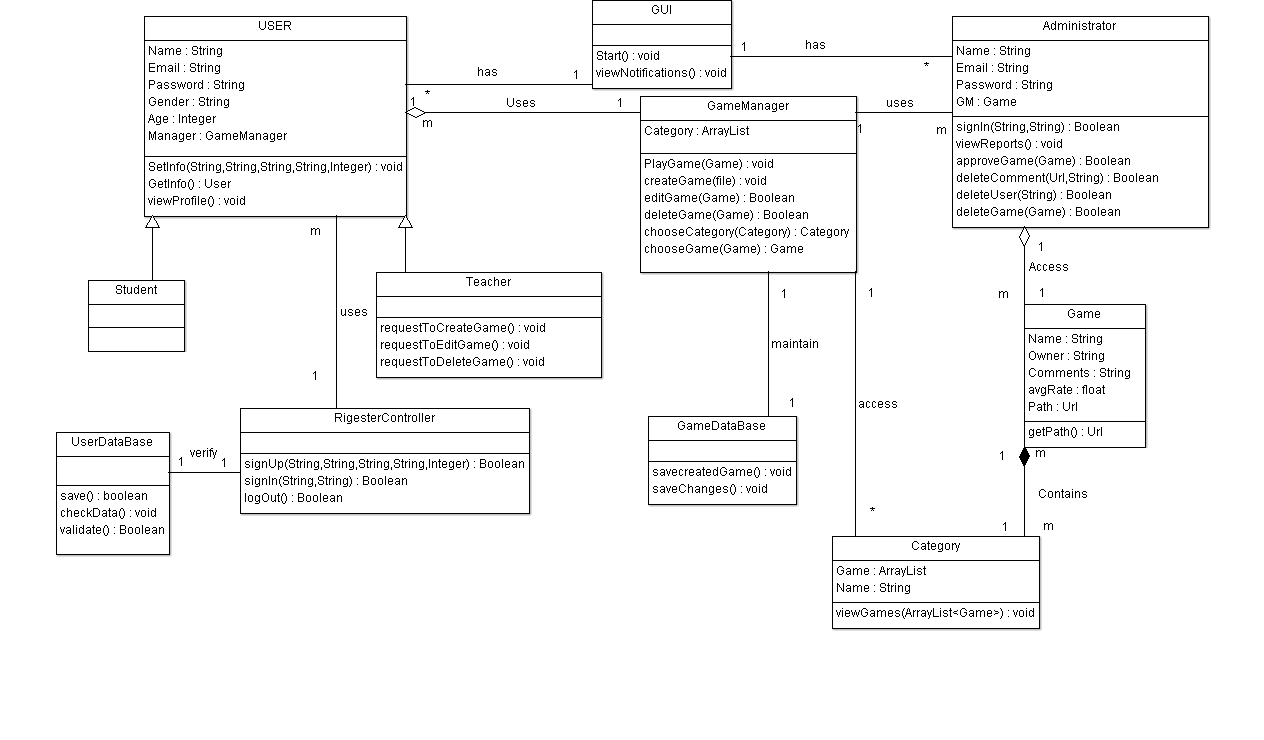
**It will also describe the actors and contents of the project.**

**This document is supposed to simplify the website for the reader, so that when the reader reads it he knows what the website is about.**

**It will also make it easier for us in the design phase.**

# System Models

## I. Class diagrams

****

| **Class ID** | **Class Name** | **Description & Responsibility** |
| --- | --- | --- |
| 1 | Website | Interface class to make it easier for the user to use the website. |
| 2 | User | Actor |
| 3 | Administrator | Actor |
| 4 | GameDataBase | Saves each created, edited or deleted game. |
| 5 | UserDataBase | Saves all the information of the users. |
| 6 | GameManager | Controls the website system from the aspect of gaming. |
| 7 | Registercontroller | Handles the registration operations and saves the data in the User's database. |
| 8 | Category | Classifies games into multiple categories |
| 9 | Game | Holds the information of each game inside the website. |
| 10 | Teacher | Actor that can create, delete or edit games. |
| 11 | Student | Actor that can perform regular user operations. |

### Important Algorithm

* **None**

## 

## II. Sequence diagramsseq1.pngseq2.pngseq3.png

## Class - Sequence Usage Table

| **Class Name** | **Sequence Diagrams** | **Overall used methods** |
| --- | --- | --- |
| user | 1,2 | SetInfo, SignIn, Choose category, ChooseGame |
| userDataBase | 1,2,3 | Validate, Save , CheckData |
| gameDataBase | 3 | Savecreatedgame |
| Administrator | 3 | signIn , AprroveGame |
| Teacher | 3 | signIn , requestCreateGame |
| GameManager | 3 | ShowNotification |

# Ownership Report

|  |  |
| --- | --- |
| **Item** | **Owners** |
| Documentation | *Ahmed Alaa* |
| Class Diagram | *Karim Ashraf* |
| Sequence Diagrams | *Ghada Gamal* |