Cairo University

Faculty of Computers and Information

CS251

Software Engineering I

Pre-teaching

Software Design

ITers

Month & Year

Software Design Specification

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Software Design Specification

Team

ID	Name	Email	Mobile
20140174	Alaa Ihab Abd El-wahab	Alaa.ihab.ali1996@gmail.com	01010954702
20140252	Mahmoud Fareed Ezz Elden	mody.xin2015@gmail.com	01011801689
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Document Purpose and Audience

- This Software is to make a useful learning system which makes us able to teach students in the best learning way.
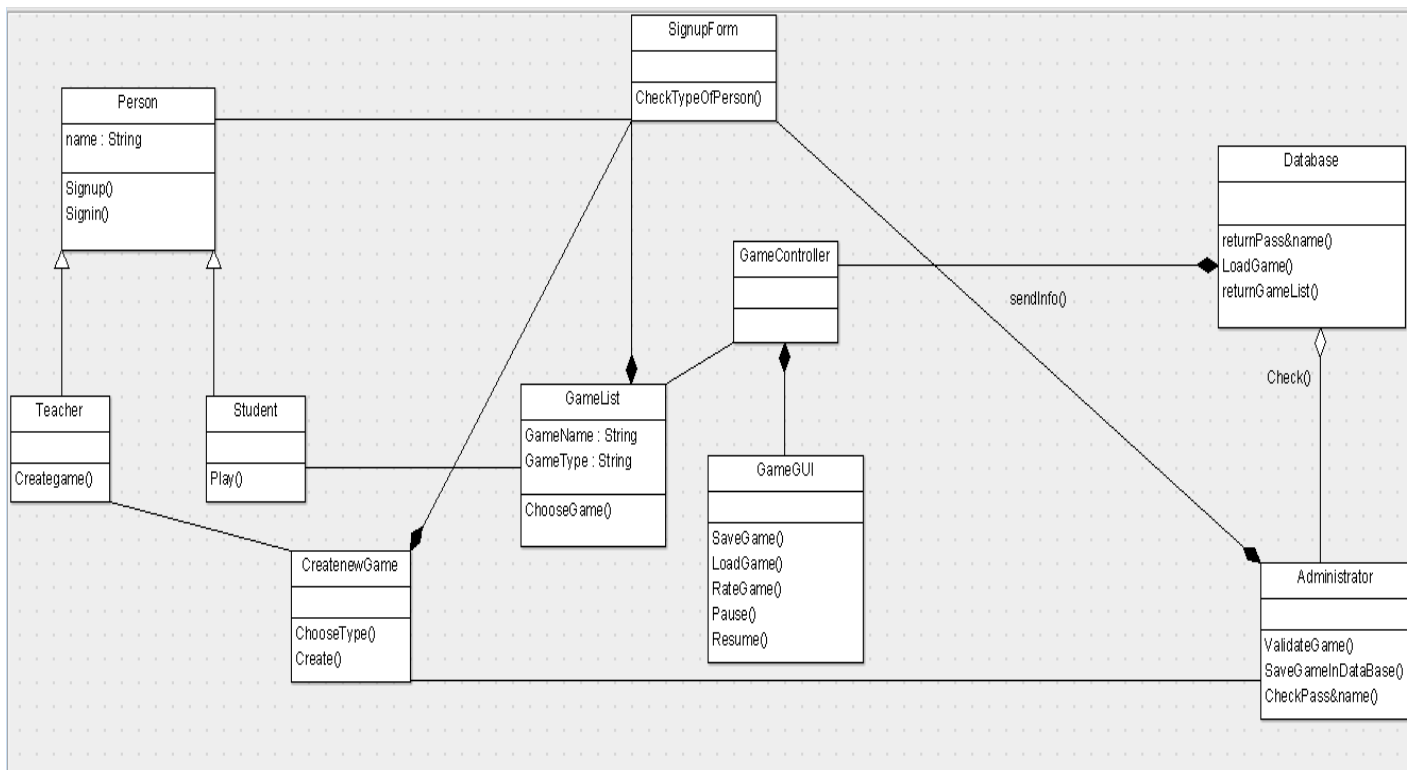- Audience: Client, Developers, Project manager, designers,

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System Models

I. Class diagrams

Class ID	Class Name	Description & Responsibility
1	Person	
2	Teacher	Class for teachers' functionality that makes the teacher able to create game.
3	Student	For students to make them able to play games.
4	Createnewgame	
5	Signupform	An boundary class as an graphical interface appears to users in registration process.

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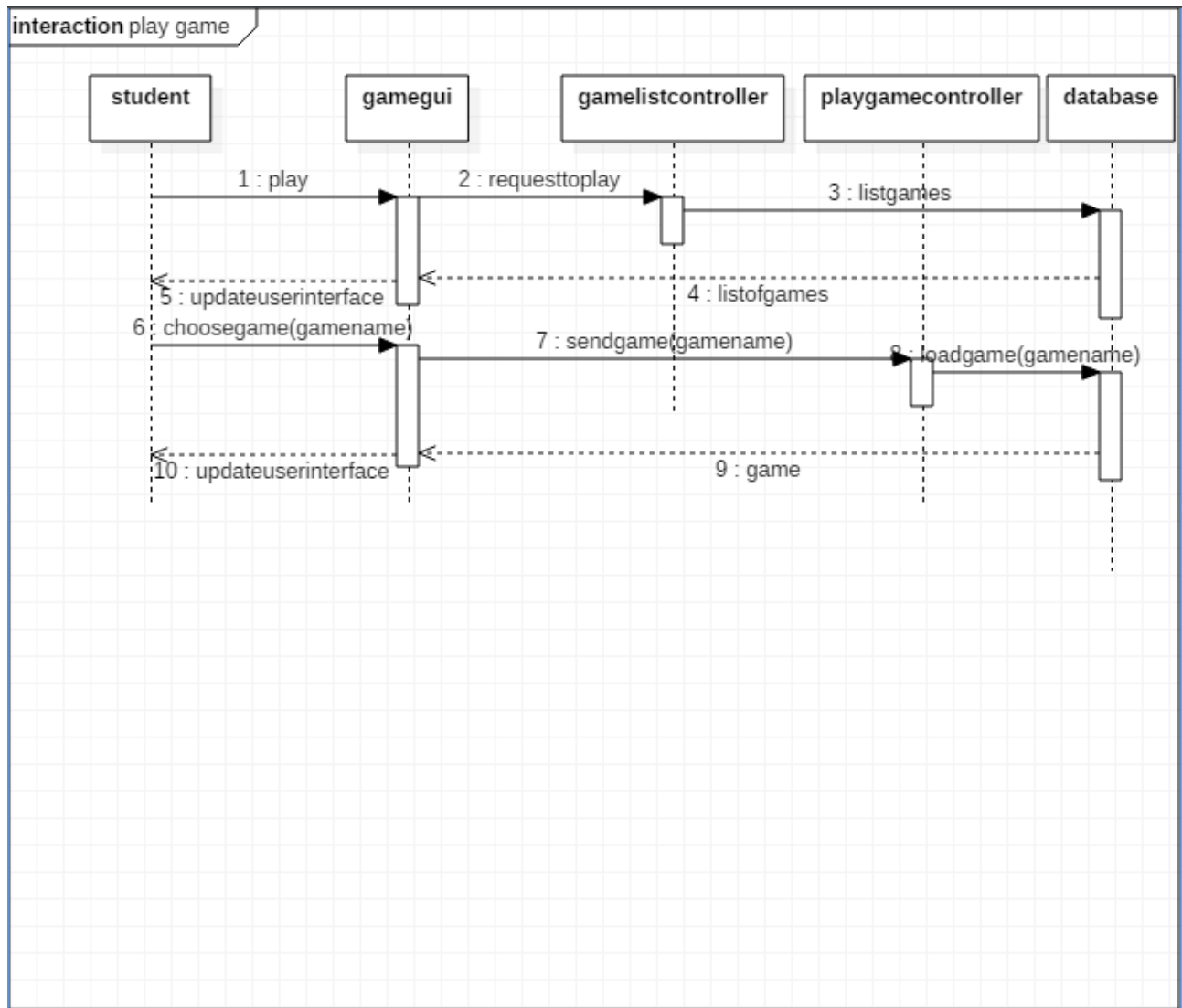| Class ID	Class Name	Description & Responsibility
6	GameList	Class that contains games' data
7	GameController	Class that control the communication between database and game GUI
8	GameGUI	An boundary class as an graphical interface appears to users during using the platform.
9	Database	Class that contain platform's all data
10	Administrator	Class that make the platform's admins able to control the platform.

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II. Sequence diagrams
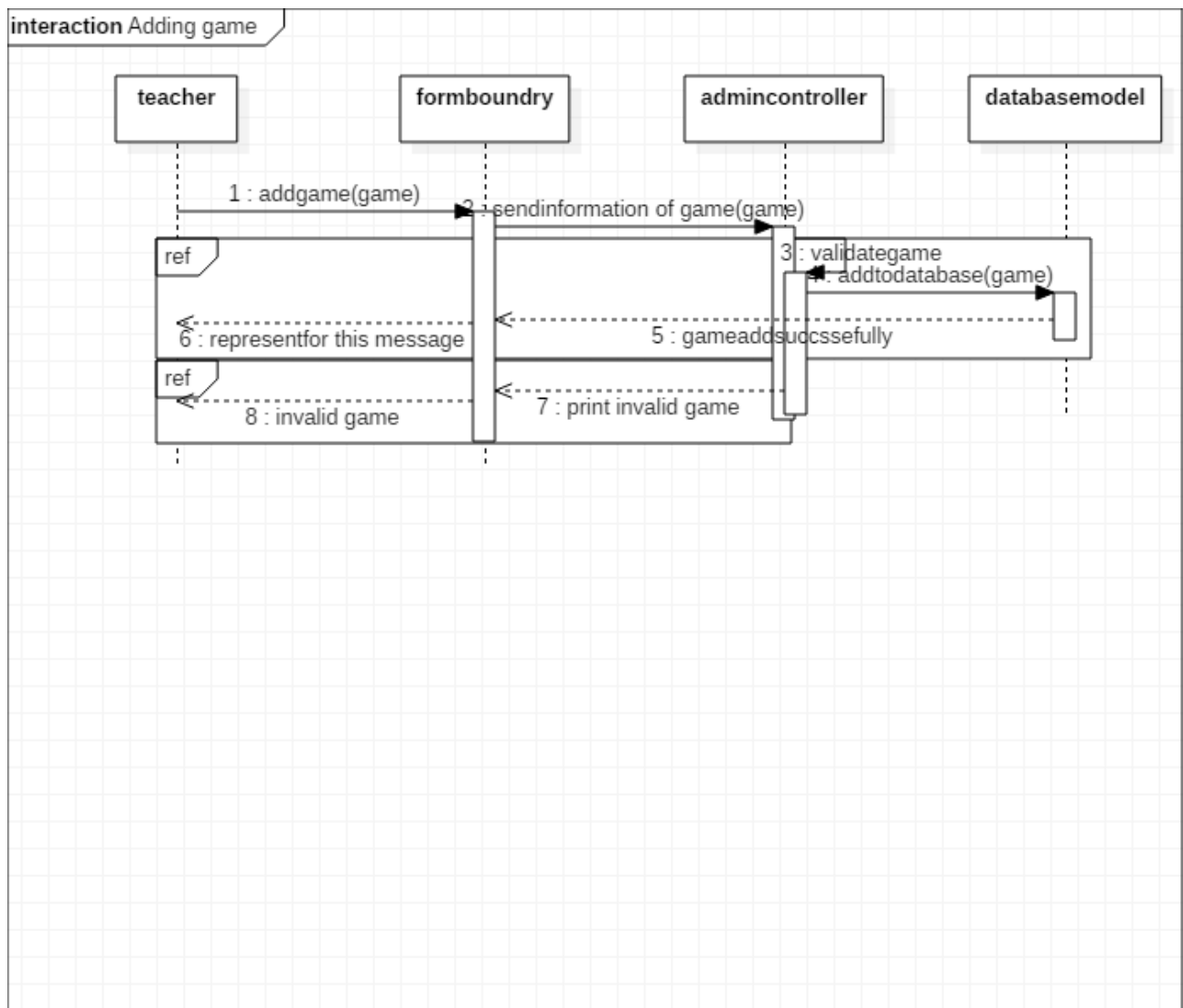
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interaction Adding game

| teacher | formboundry | admincontroller | databasemodel |

1 : addgame(game)
2 : sendinformation of game(game)

ref

3 : validategame
4 : addtodatabase(game)

6 : representfor this message
5 : gameaddsuccssefully

ref

8 : invalid game
7 : print invalid game

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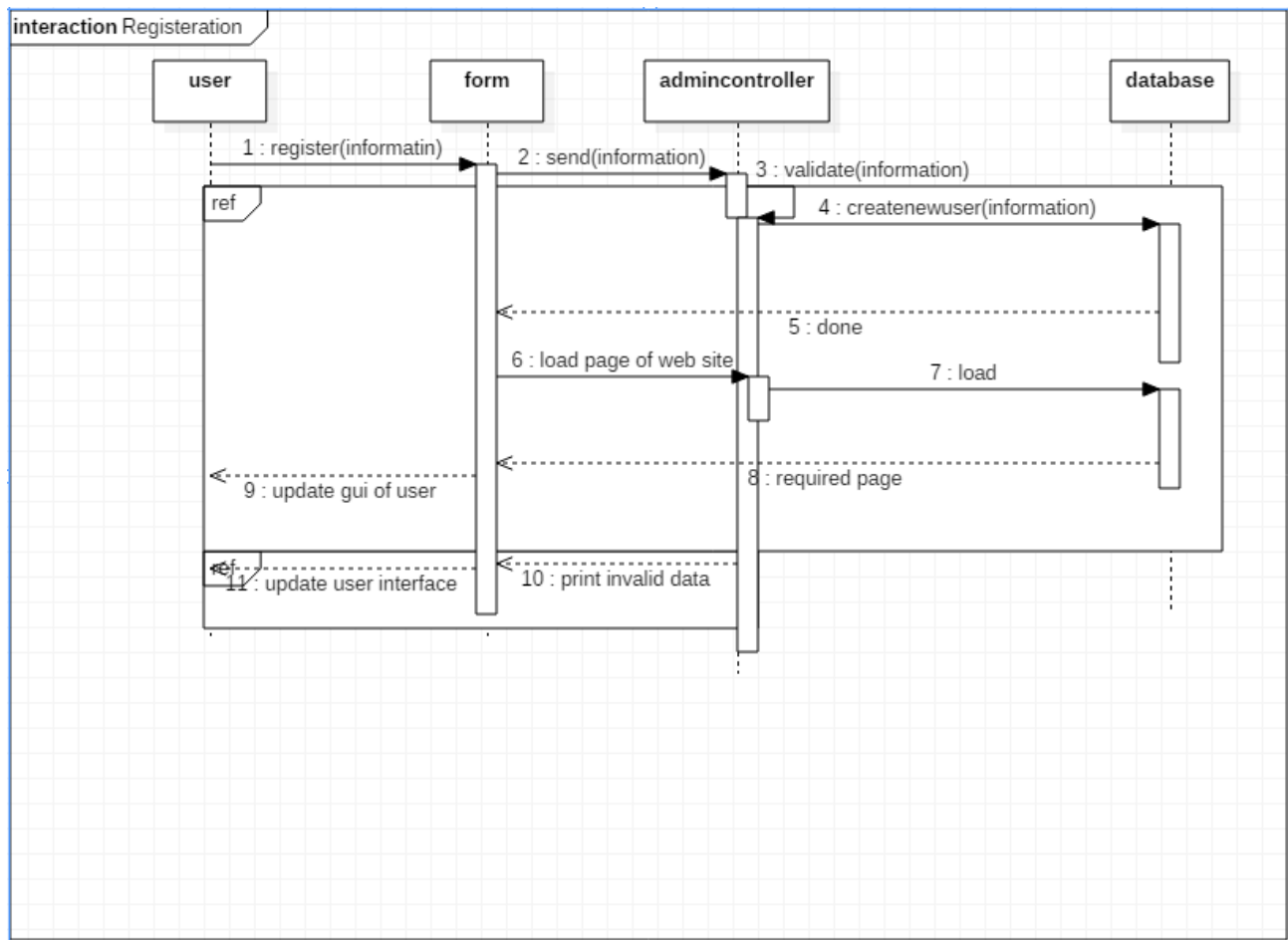
Class - Sequence Usage Table

Class Name	Sequence Diagrams	Overall used methods
Teacher	2 , 3	Addgame , register
Student	1 , 3	Play , register
Signupform	3	Send , loadpage
GameList	1	listgames
GameGUI	1	Requesttoplay , sendgame
Database	1 , 2 , 3	Retrievedata
Administrator	2 , 3	Validate , load

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Ownership Report

Item	Owners
Sequence diagrams (Play game – Adding game)	*Mohamed Hesham*
Class diagram	*Mahmoud Fareed*
Sequence diagram (registration) – Documentation	*Alaa Ihab*