Cairo University
Faculty of Computers and In

CS251
Software Engineering I

Phase 3

CS251: Phase 3 – <Team Name>
Project: <Project Name>

Software Design Specification

DEC & 2017

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Team

ID	Name	Email	Mobile
20140001	Abraam Emad Reda	abraamaj27@gmail.com	01278055444
20140004	Ahmed Ibrahim Mokhtar	ahmed0123031@gmail.com	01225068308
20140177	Ali Mohamed EL-Amin	Ali.amin823@gmail.com	01112794151

Document Purpose and Audience

This document includes design of the educational website that's make to help students to understand basic educational concepts

System Models

I. Class diagrams

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- **Class Diagram** : this diagram represent the system as classes and relations between this classes, attributes and functions of every class.
- **Sequence diagram** : this diagram represent sequence function that actor (teacher-student) do within objects

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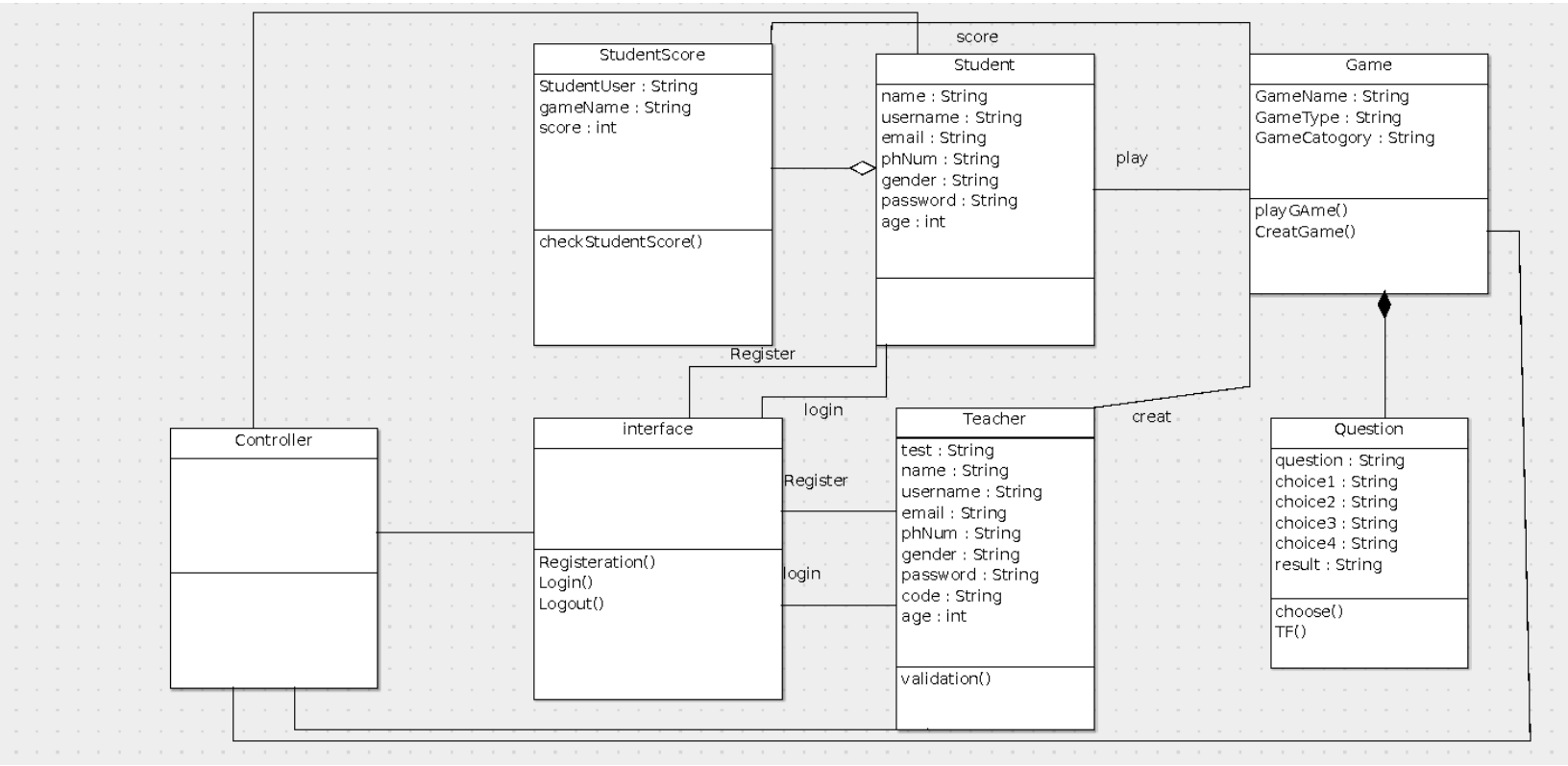
The Audience : project manager – developer- customer

System Models

I. Class diagrams



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Class ID	Class Name	Description & Responsibility
1	Student	• Have attributes (name-username-password-phoneNumber-email-Gender-Age) • This class used to collect Student information
2	Teacher	• Have attributes (name-username-code-password-Email-PhoneNumber-Gender-Age-) • This class used to collect Teacher information
3	Game	• Have attributes (name-category-type) • Has a method (play game – create game)
4	Qustion	• Have attributes (question-choise1-choise2-choise3-choice4-result) • Have Methods(choose-tf) • this class used to get questions information
5	Controller	• This class used to manage the system
6	Interface	• Have methods (Registration -login-logout) • This class used as interface to registration , login or logout from the website
7	Student_Score	• Have attributes (gamename-username-Score) • Has a method check_student_score • This class used to check and count the score of the student that's achieve in a game

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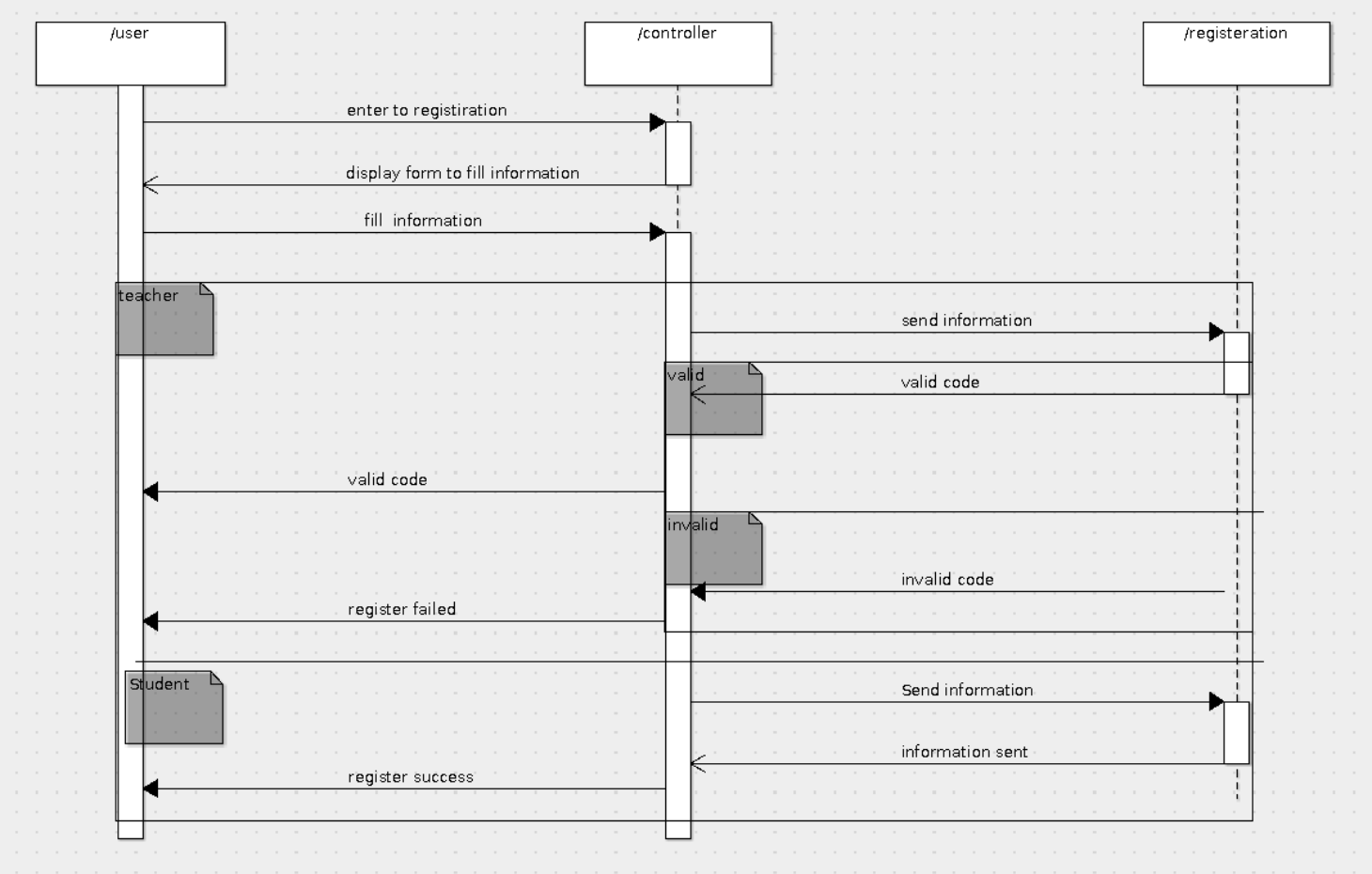
II. Sequence diagrams

1- REGISTERATION



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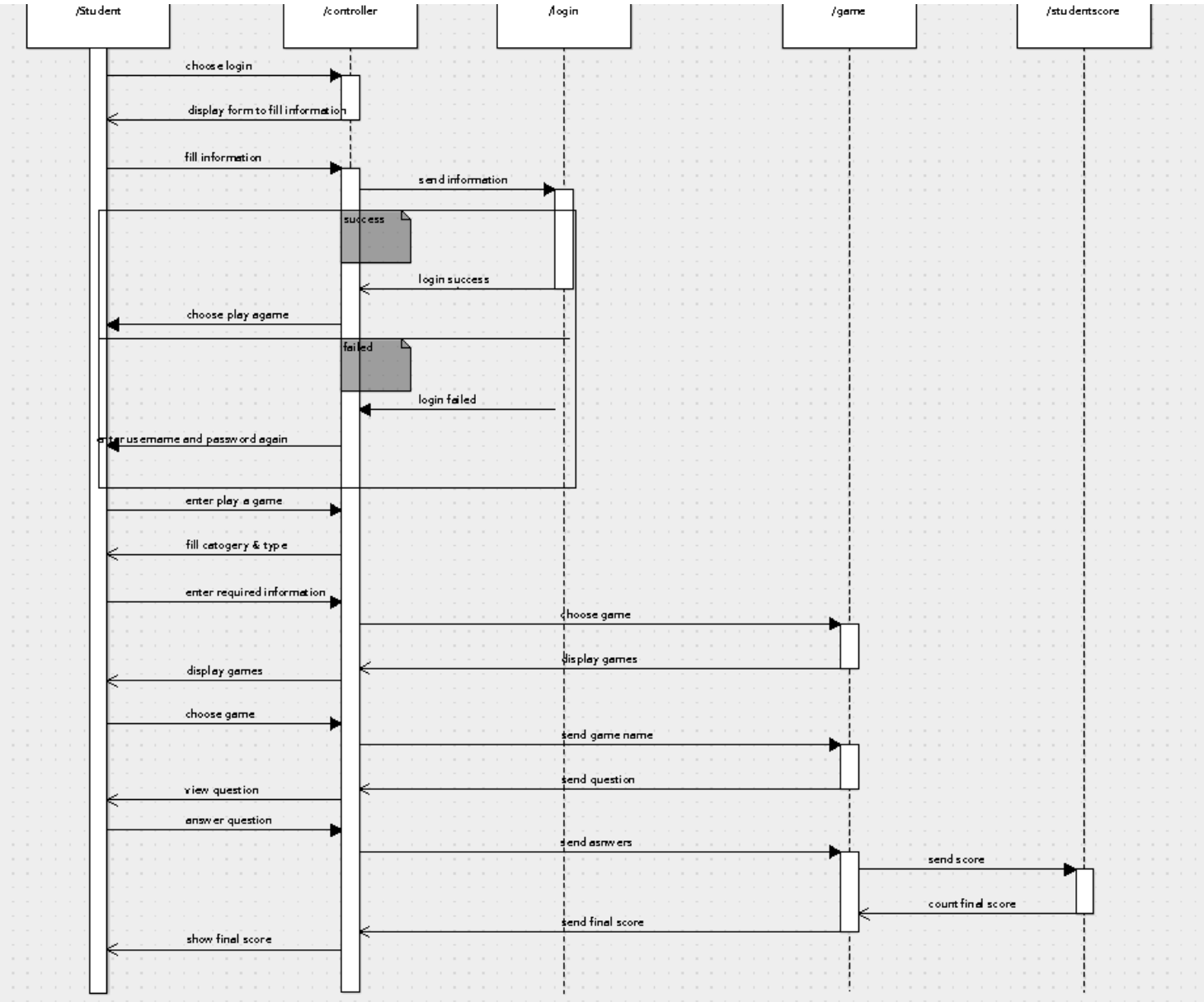
2-PLAY GAME



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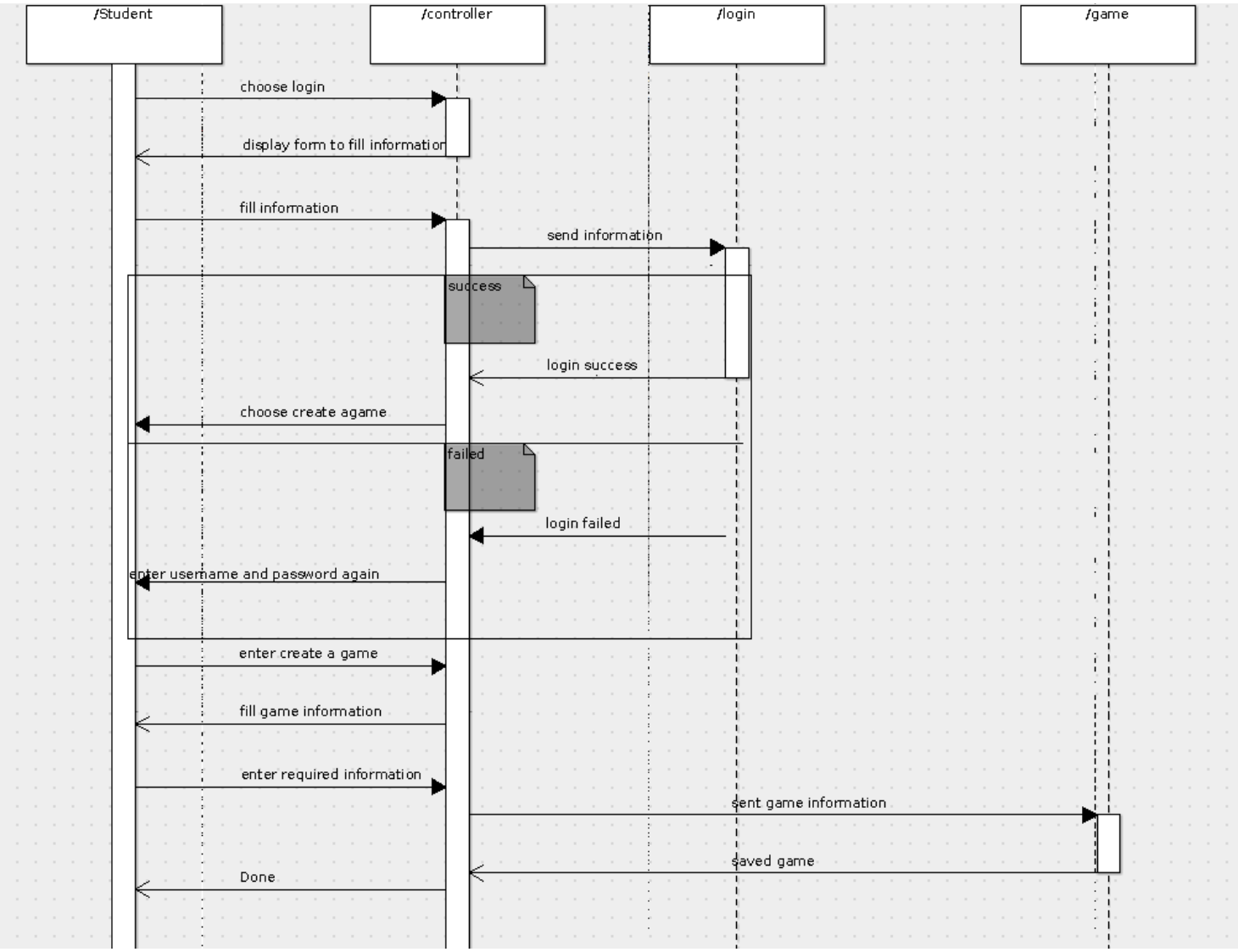
3-CREAT GAME



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Class - Sequence Usage Table

Class Name	Sequence Diagrams	Overall used methods
Student	1,2	Log in – make registeration
Teacher	1,3	Log in – make registeration
Game	2,3	PlayGame – CreateGame
Controller	1,2,3	
Interface	1,2,3	Registration – Login - Logout
Student_Score	2	Calculate studentScore

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Ownership Report

Item	Owners
Class Diagram – sequence Diagram 1	*Abraam Emad*
Class Diagram –Sequence Diagram 2	*Ahmed ibrahim mokhtar*
Class Diagram –Sequence Diagram 3	*Ali Mohamed EL-Amin*