

Cairo University

Faculty of Computers and Information



# CS352 – Software Engineering II

## Phase 2 Template

2017

### Project Team

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# CS352: Phase 2 – TNO, Science Academy

## Phase 2- document

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### Your Restful API

- SignupAsTeacher Service

Service name	SignupAsTeacher		
Input type	POST		
Service URL	http://fci-swe-apps.appspot.com/rest/SignupAsTeacher		
Parameters	NAME	Description	
	user	Provided Teacher information	
Example request	POST http:// fci-swe-apps.appspot.com /rest/LoginService?uname= MohamedSamir3&password=123456789		
Example response	{ "name" : "Menna", "password" : "nhnh", "country" : "cairo", "college" : "computers", "type" : "teacher", "email" : "menna@gmail", "age" : "20" }		



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- **SignupAsStudent Service**

Service name	SignupAsStudent		
Input type	POST		
Service URL	http://fci-swe-apps.appspot.com/rest/SignupAsStudent		
Parameters	NAME	Description	
	user	Provided Student information	
Example request	POST http:// fci-swe-apps.appspot.com /rest/SignupAsStudent		
Example response	{ "name" : "Amr", "password" : "nhnh", "country" : "cairo", "college" : "computers", "type" : "student", "email" : "amr@gmail", "age" : "6" }		

- **LoginService**

Service name	Login
Input type	POST



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Service URL	http://fci-swe-apps.appspot.com/rest/login		
Parameters	NAME	Description	
	Email	The user's email	
	Password	The user's password	
Example request	POST http:// fci-swe-apps.appspot.com /rest/login		
Example response	{ "email": "mennaali364@gmail", "password": "1234"  }		

- **CreateCourse Service**

<b>Service name</b>	<b>CreateCourse</b>		
<b>Input type</b>	<b>POST</b>		
<b>Service URL</b>	<b>http://fci-swe-apps.appspot.com/rest/CreateCourse</b>		
<b>Parameters</b>	<b>NAME</b>	<b>Description</b>	
	<b>CourseName</b>	<b>Provided the name of the course to create</b>	
	<b>CourseOwner</b>	<b>Provide the email of the</b>	



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		teacher who want to create the course	
Example request	POST <code>http:// fci-swe-apps.appspot.com /rest/CourseName</code>		
Example response	<pre>{   "courseName":"programming",   "CourseOwner":"nouraraafa@gmail" }</pre>		

- **AddcompleteGameinDateBaseService**

Service name	AddcompleteGameinDatabase		
Input type	POST		
Service URL	<code>http://fci-swe-apps.appspot.com/rest/createcompletegame/{coursename}/{teacherid}</code>		
Parameters	NAME	Description	
	Coursename	This parameter provide the course name that this game belong to .	
	Teacherid	Provide the games owner id .	
	Cgame	Provide the game	



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	questions and model answer details
Example request	POST http:// fci-swe-apps.appspot.com /rest/ createcompletegame/Math/mennaali@gmail
Example response	{"gameName":"Game1", "questions":["10+10","5+2"], "modelanswer" :["1","2"] }

- AddmatchGameinDateBase Service

Service name	AddmatchGameinDatabase		
Input type	POST		
Service URL	http://fci-swe-apps.appspot.com/rest/creatematchgame/{coursename}/{teacherid}		
Parameters	NAME	Description	
	Coursename	This parameter provide the course name that this game belong to .	
	Teacherid	Provide the games owner id .	
	mgame	Provide the game	



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		questions and model answer details	
Example request	<b>POST</b> <a href="http://fci-swe-apps.appspot.com/rest/creatematchgame/Math/mennaali@gmail">http:// fci-swe-apps.appspot.com /rest/ creatematchgame/Math/mennaali@gmail</a>		
Example response	<pre>{   "gameName": "Game1",   "column1" : ["10+10", "5+2"],   "column2" : ["20", "7"],   "modelanswer": ["1", "2"]} </pre>		

- **ShowALLCourses Service**

Service name	ShowALLCourses
Input type	Get
Service URL	<a href="http://fci-swe-apps.appspot.com/rest/ShowALLCourses">http://fci-swe-apps.appspot.com/rest/ShowALLCourses</a>
Parameters	No Parameter need
Example request	<b>Get</b> <a href="http:// fci-swe-apps.appspot.com /rest/ShowALLCourses">http:// fci-swe-apps.appspot.com /rest/ShowALLCourses</a>





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- **ShowGamesInCourseService**

Service name	ShowGameIncourse		
Input type	Get		
Service URL	http://fci-swe-apps.appspot.com/rest/ShowGameInCourse/{Coursename}		
Parameters	NAME	Description	
	Coursename	This parameter provide the course name that this game belong to .	
Example request	Get http:// fci-swe-apps.appspot.com /rest/ShowGameInCourse/Math		



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- **PlayGameService**

Service name	playgame		
Input type	Get		
Service URL	http://fci-swe-apps.appspot.com/rest/playGame/{Gamenam}		
Parameters	NAME	Description	
	gameName	This parameter provide the game name that it will play.	
Example request	Get http:// fci-swe-apps.appspot.com /rest/plagame/plusandminus		

- **SubmitAnswers Service**

Service name	Submitanswers		
Input type	POST		
Service URL	http://fci-swe-apps.appspot.com/rest/submitanswer/{gamenam}/{Userid}		
Parameters	NAME	Description	
	gamenam	Provided the name of the game which want to submit answers of its	



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		questions	
	Userid	Provide the email of the user who is playing that game	
	answers	Provide the answers of the questions of that game, answers ordered in the list input according to the sequence of the questions	
Example request	POST http:// fci-swe-apps.appspot.com /rest/submitanswer/Game2/ nouraarafa@gmail		
Example response	{ ["6","5"] } 6 is the answer of question 1...		

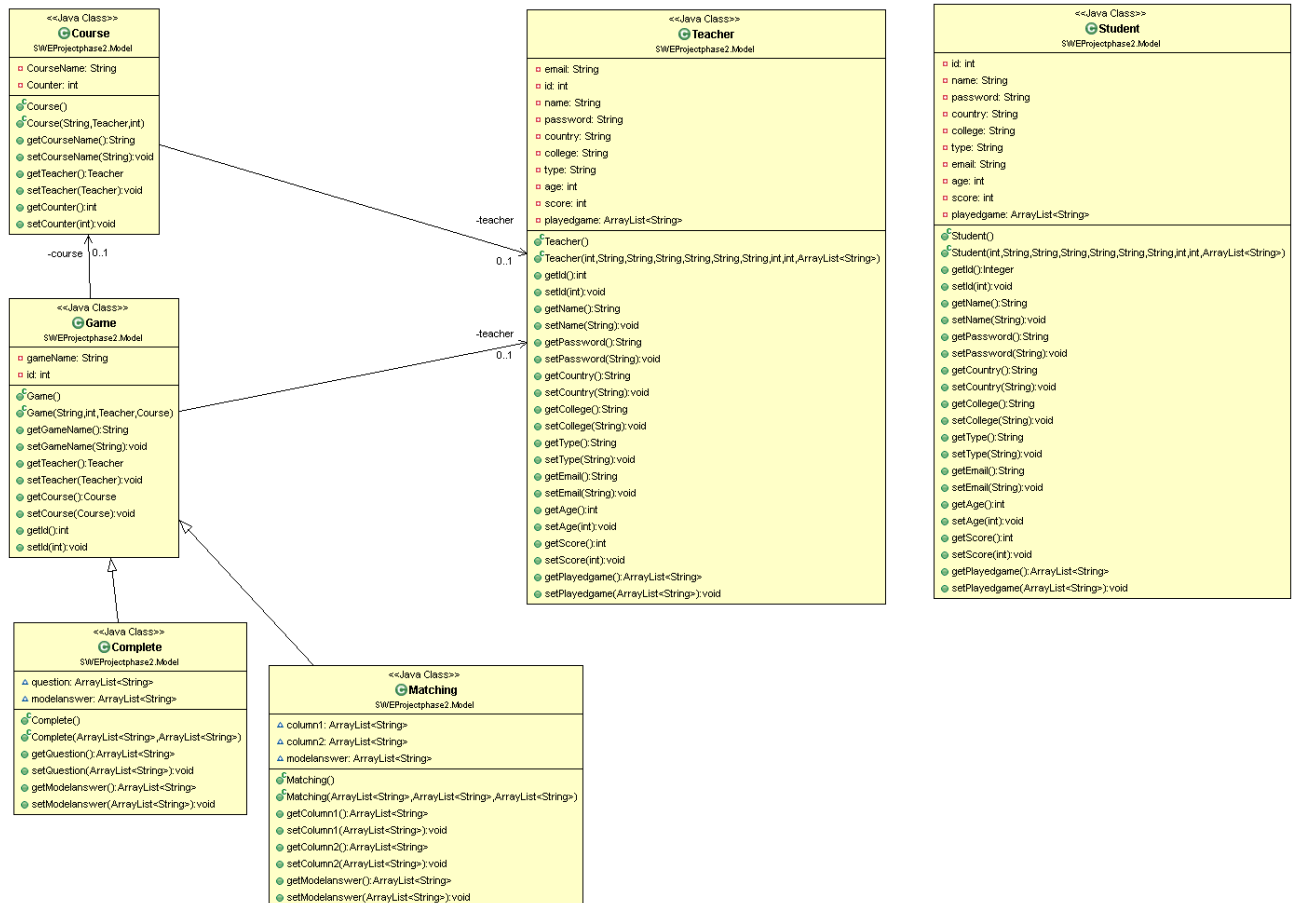


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### Class diagram design

#### 1-Model Package

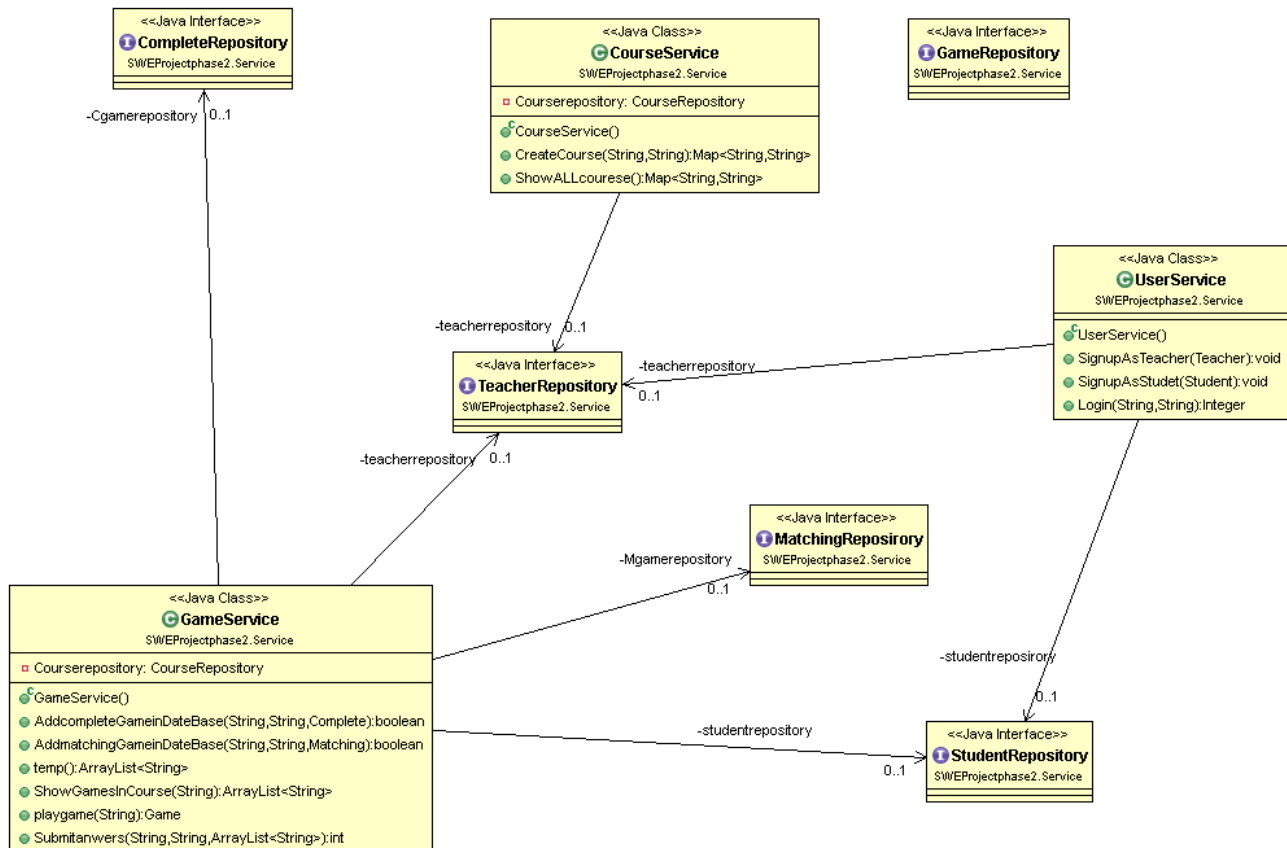




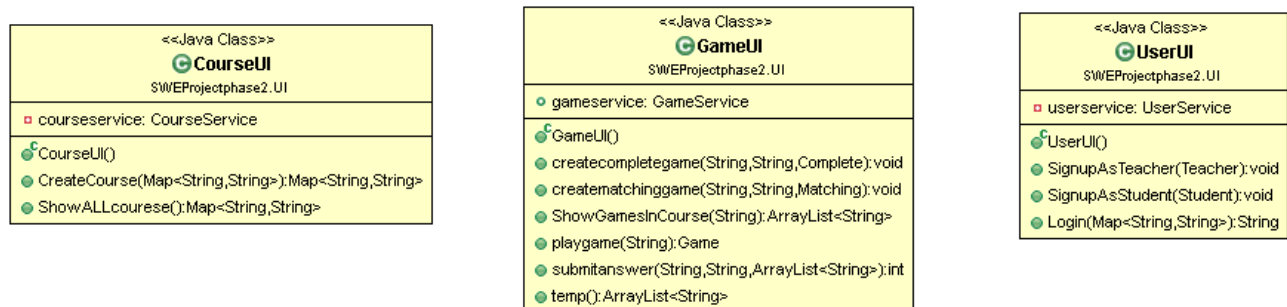
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### 2-Services Package



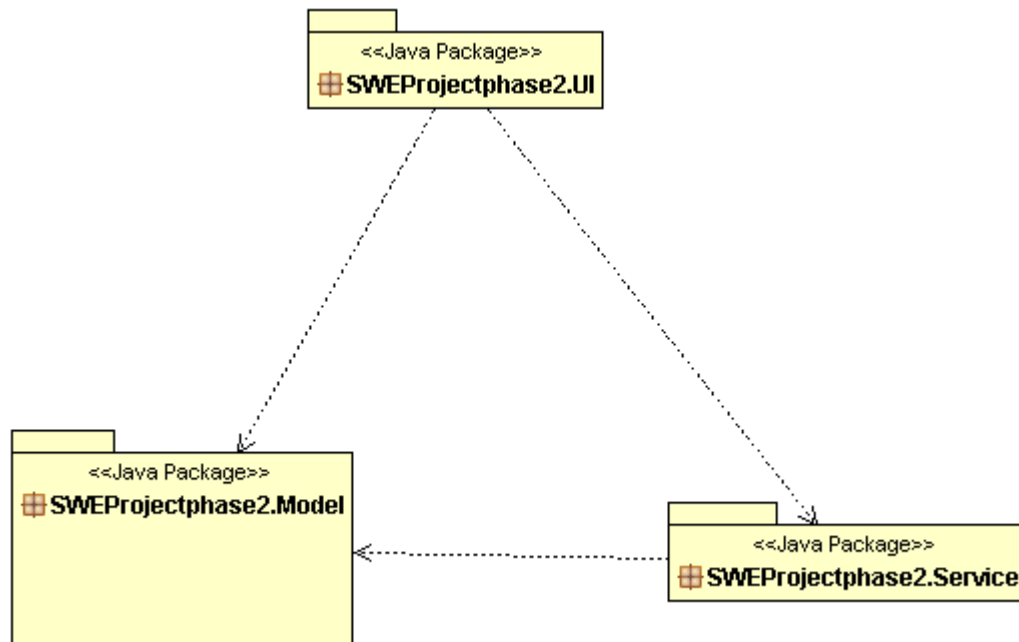
### 3-UI Package





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### 4-Relations Between Packages



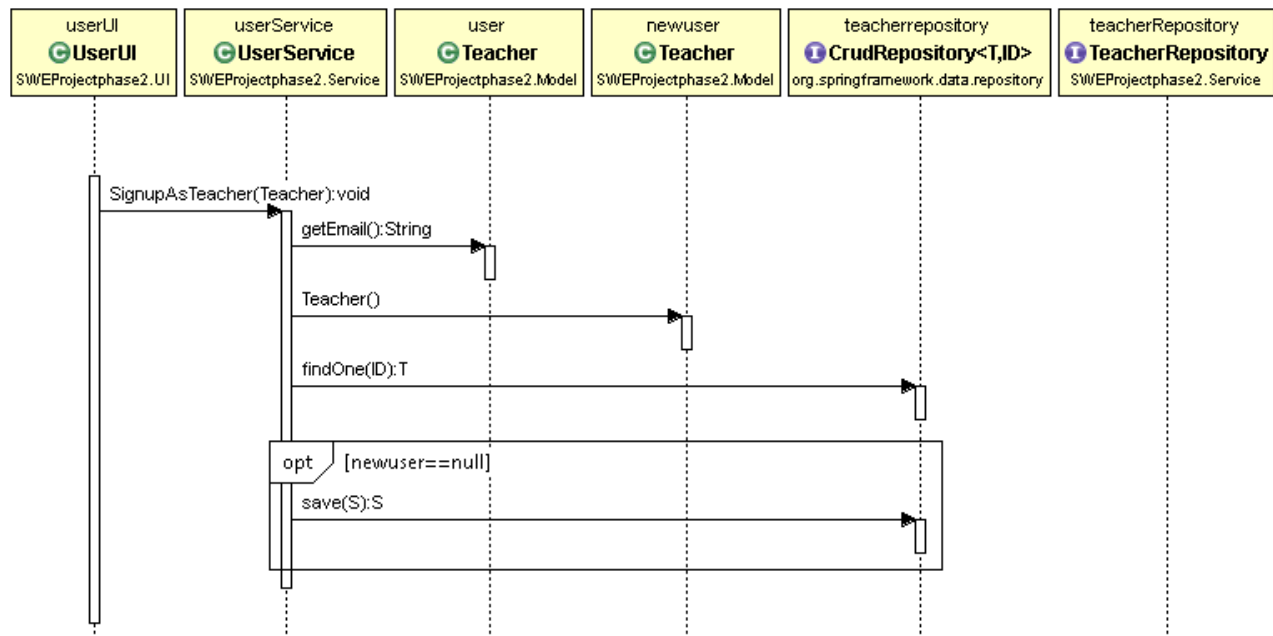


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### Sequence diagram:

#### 1-SignupAsTeacher

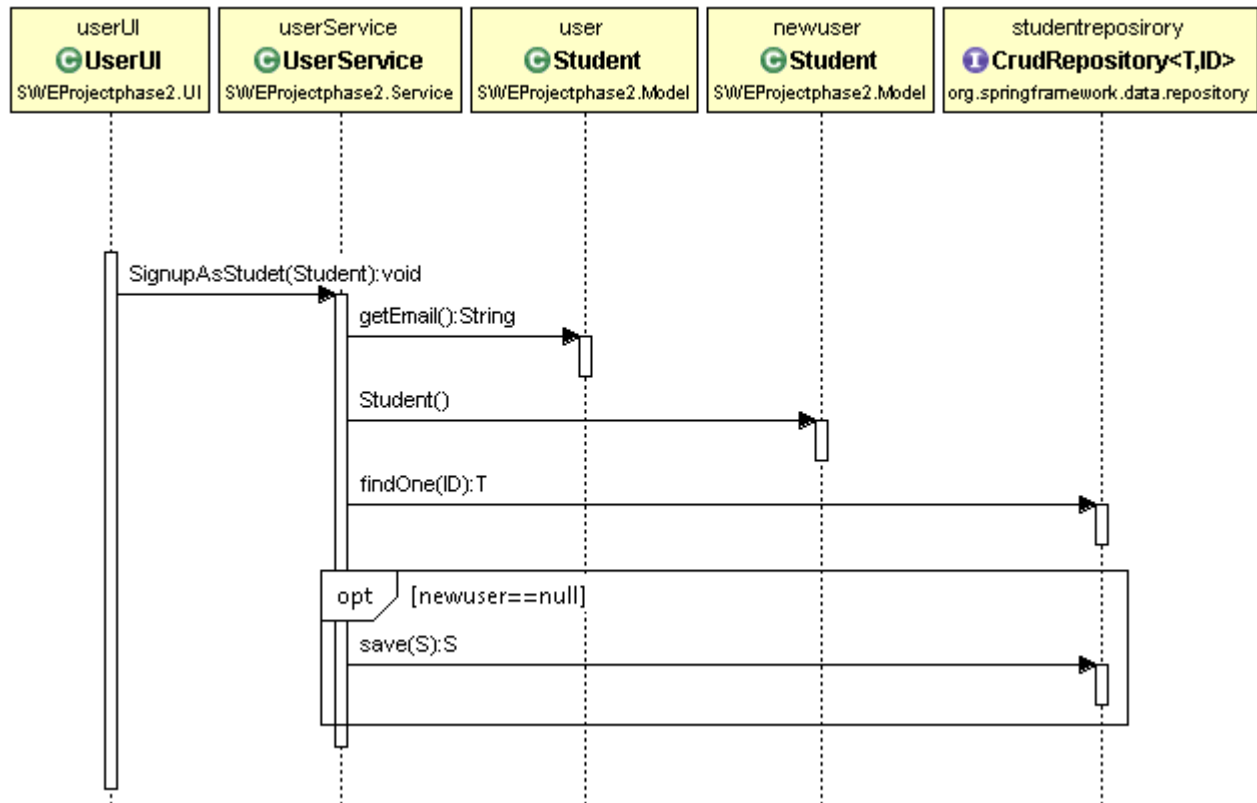




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### 2-SignupAsStudent



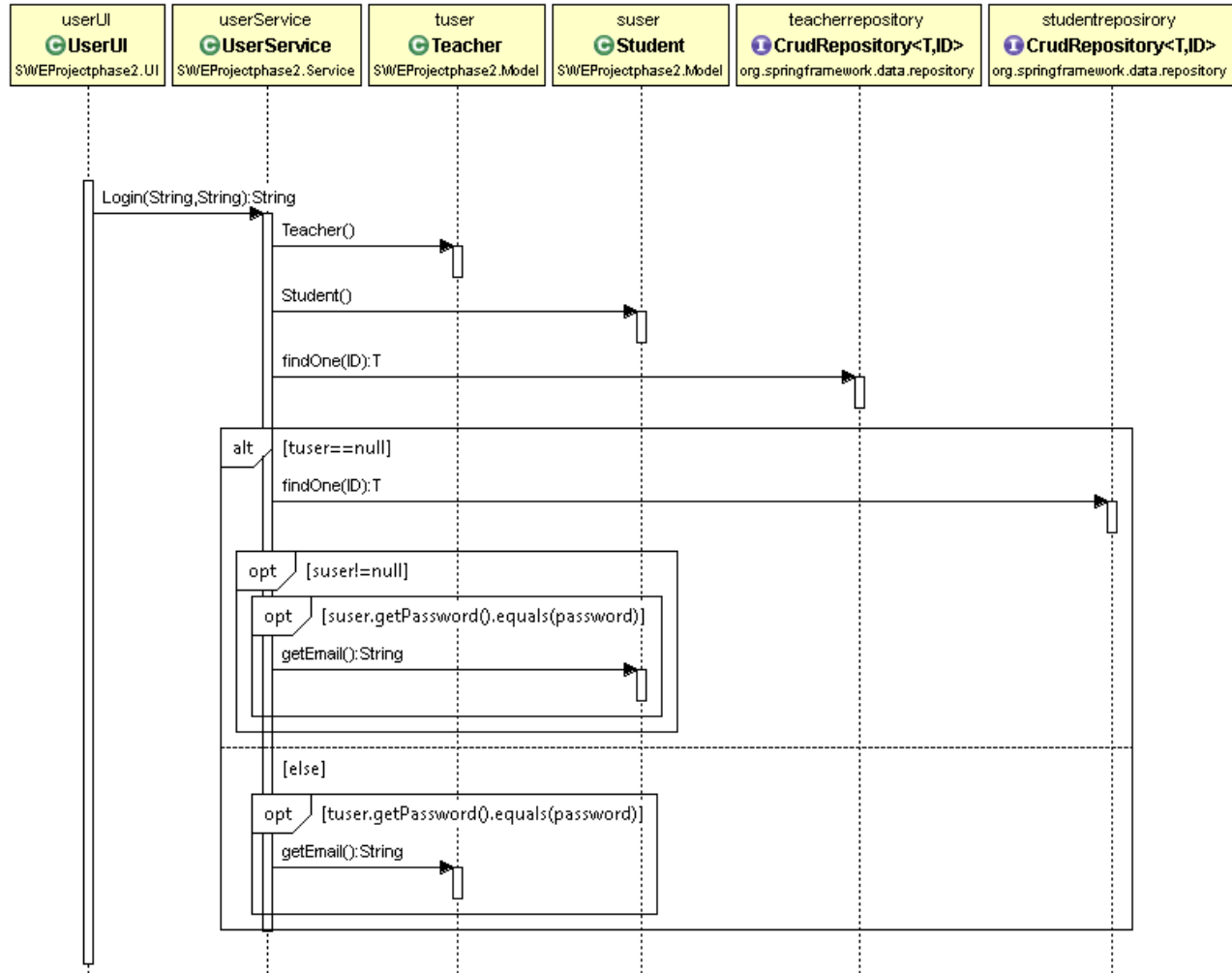




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### 3-Login

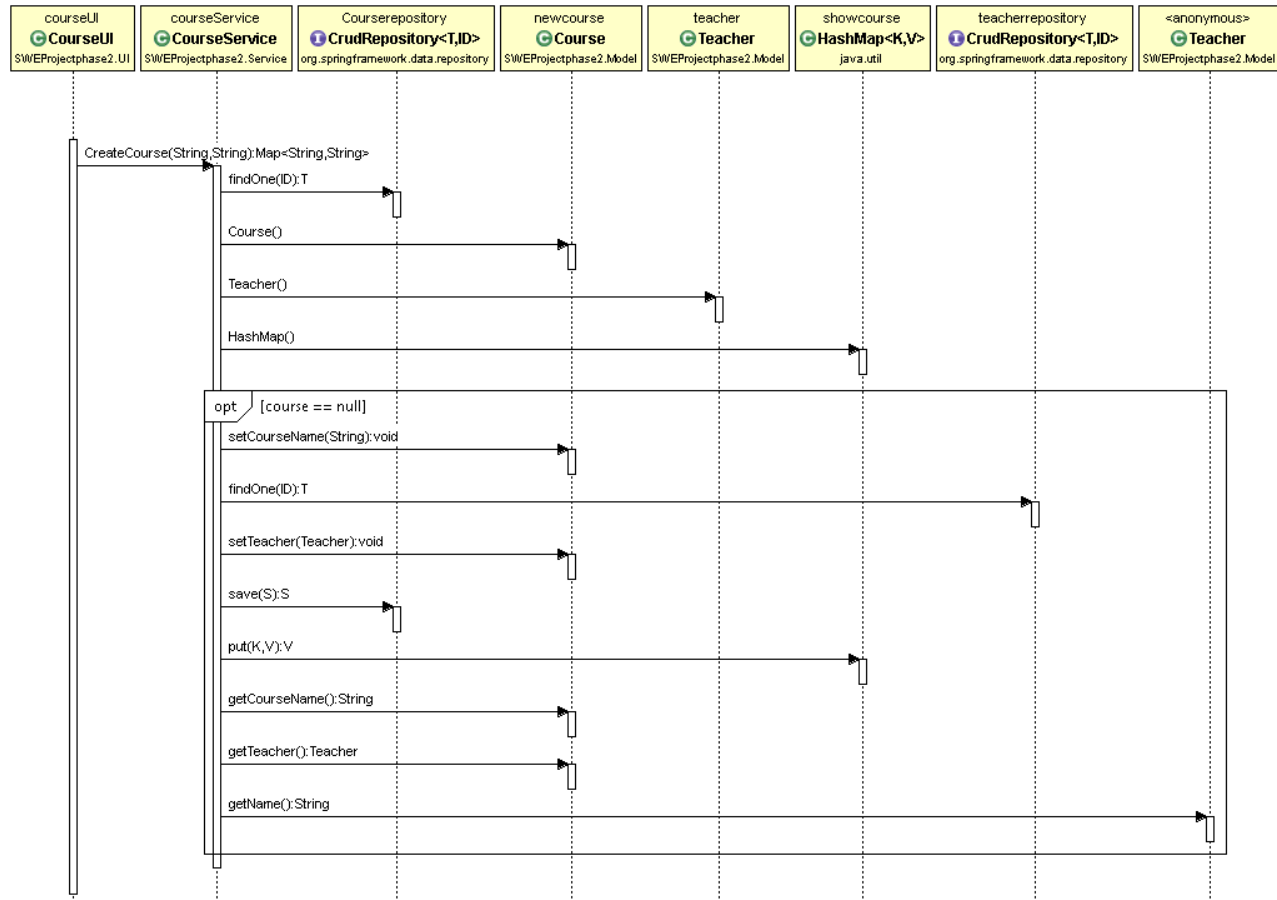




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### 4-CreateCourse

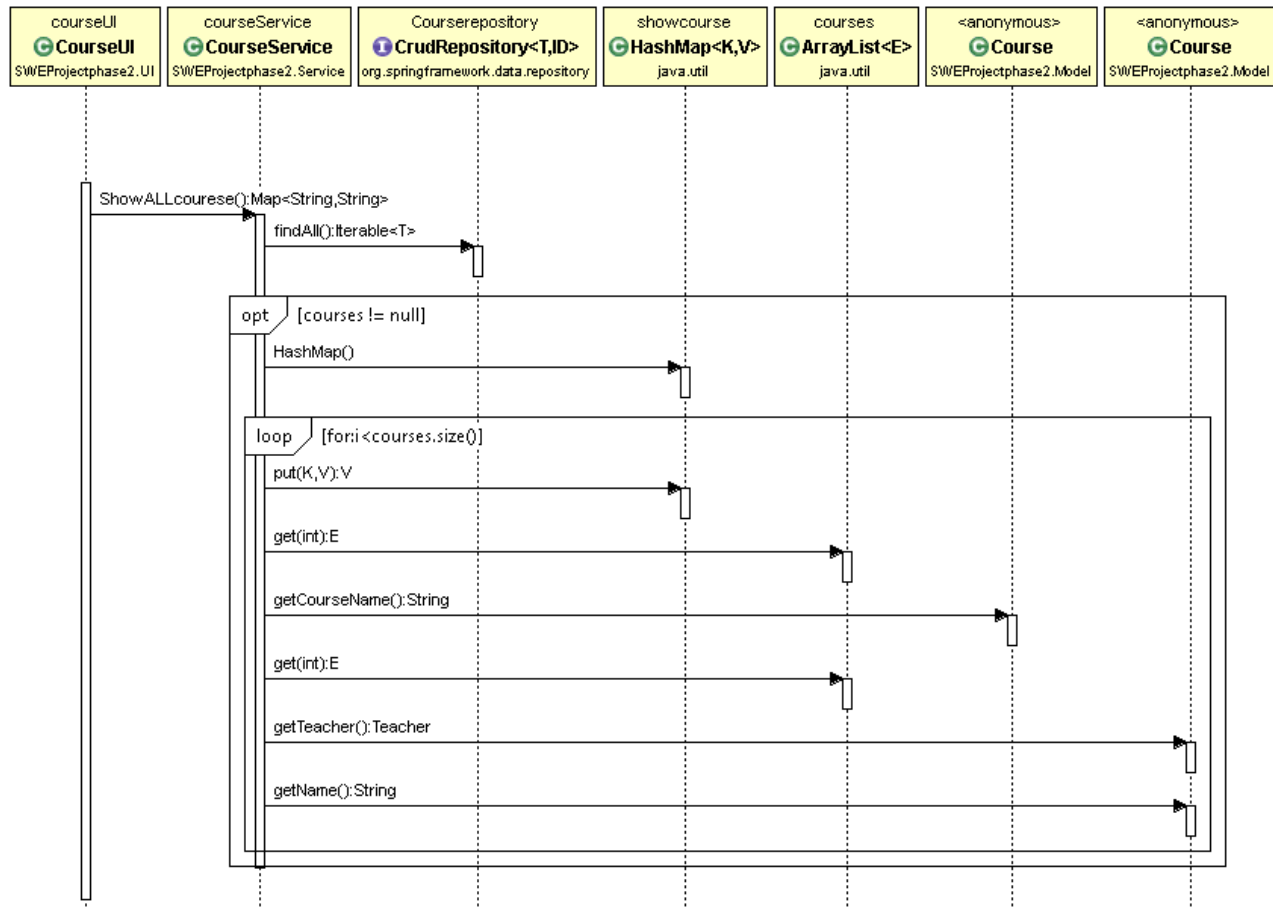




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### 5-ShowALLCourses

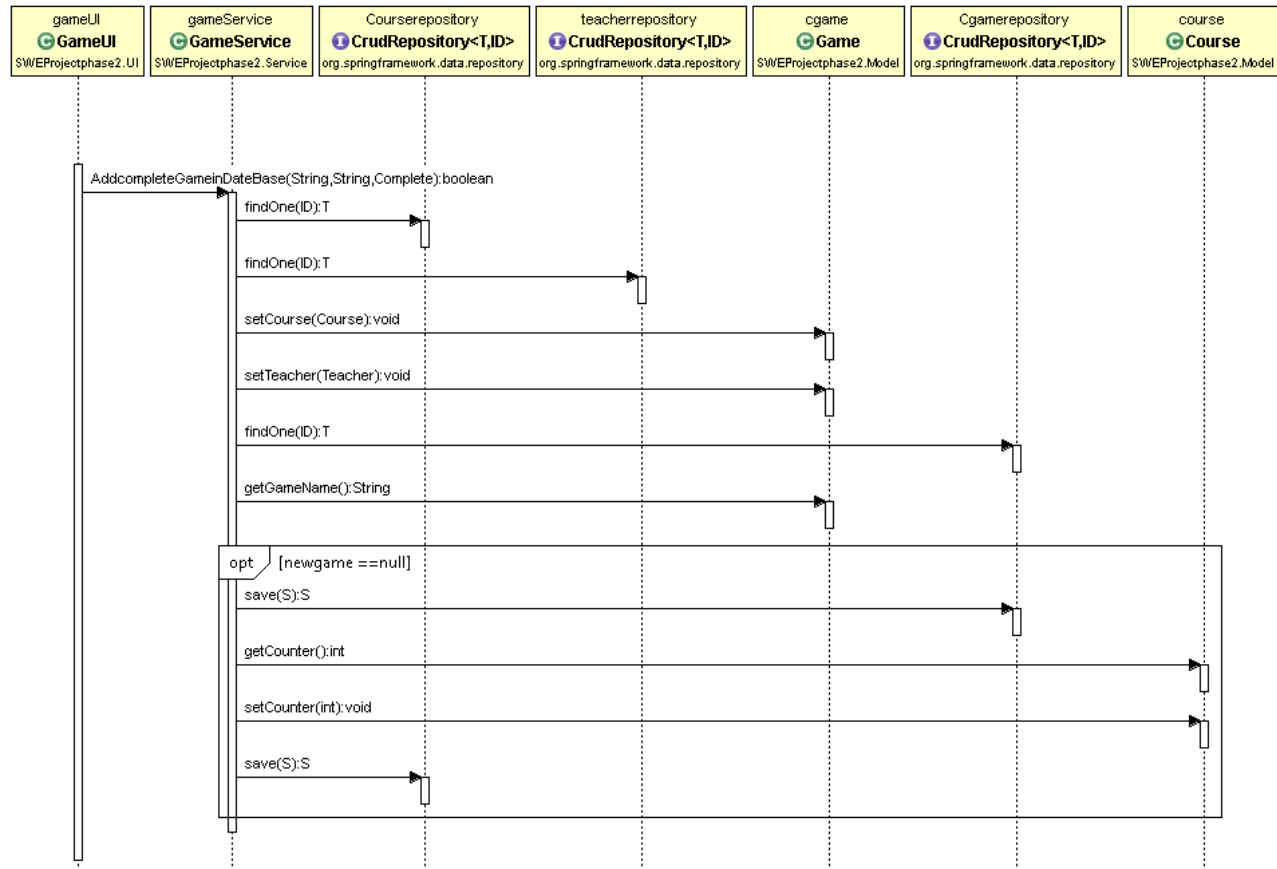




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### 6-AddCompleteGame

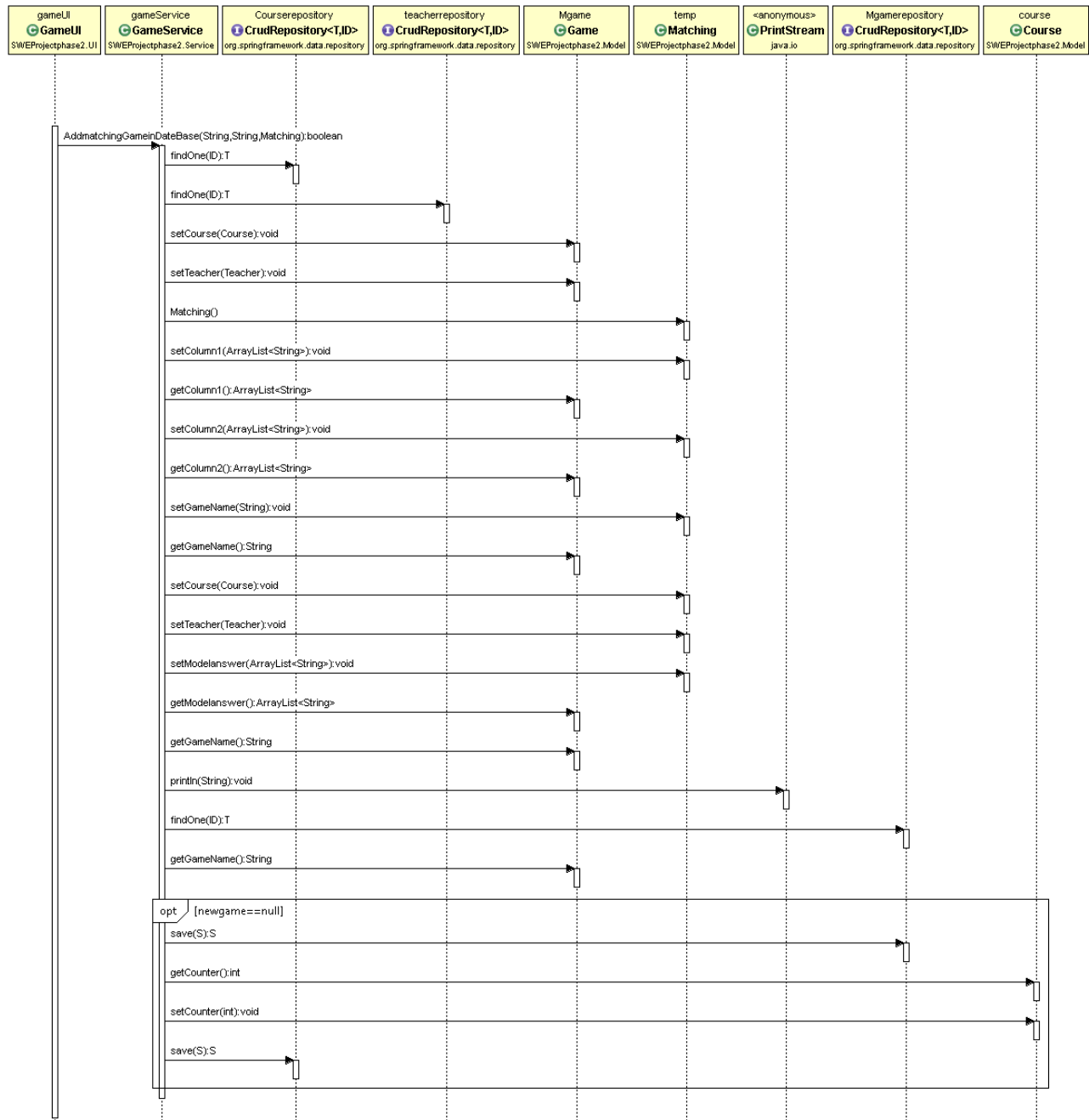




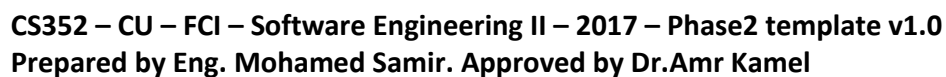
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### 7-AddMatchingGame



## 8-ShowgamesInCourse

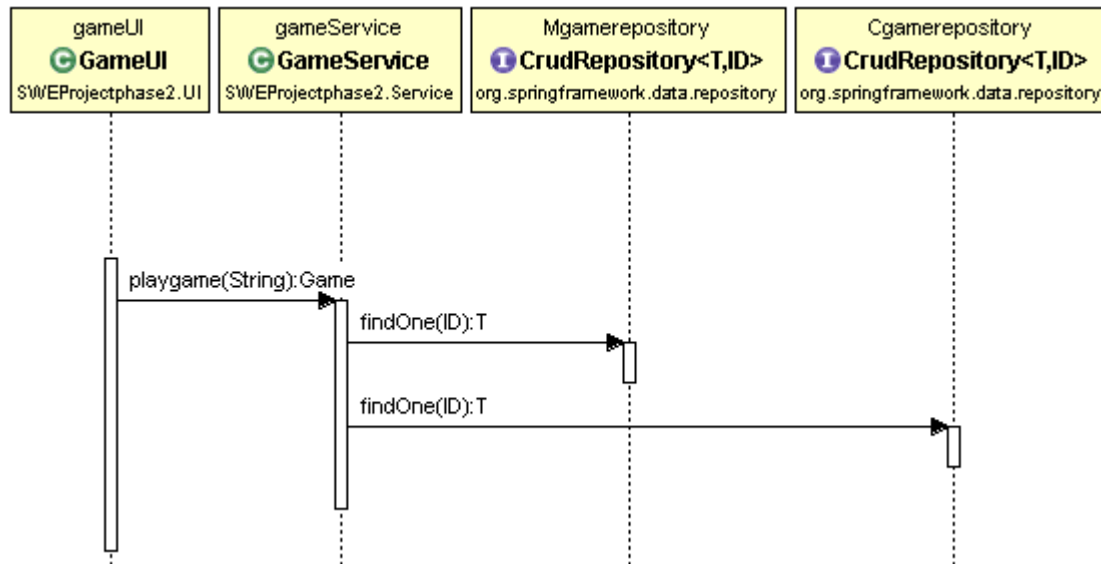




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### 9-PlayGame





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### 10-SubmitAnswers



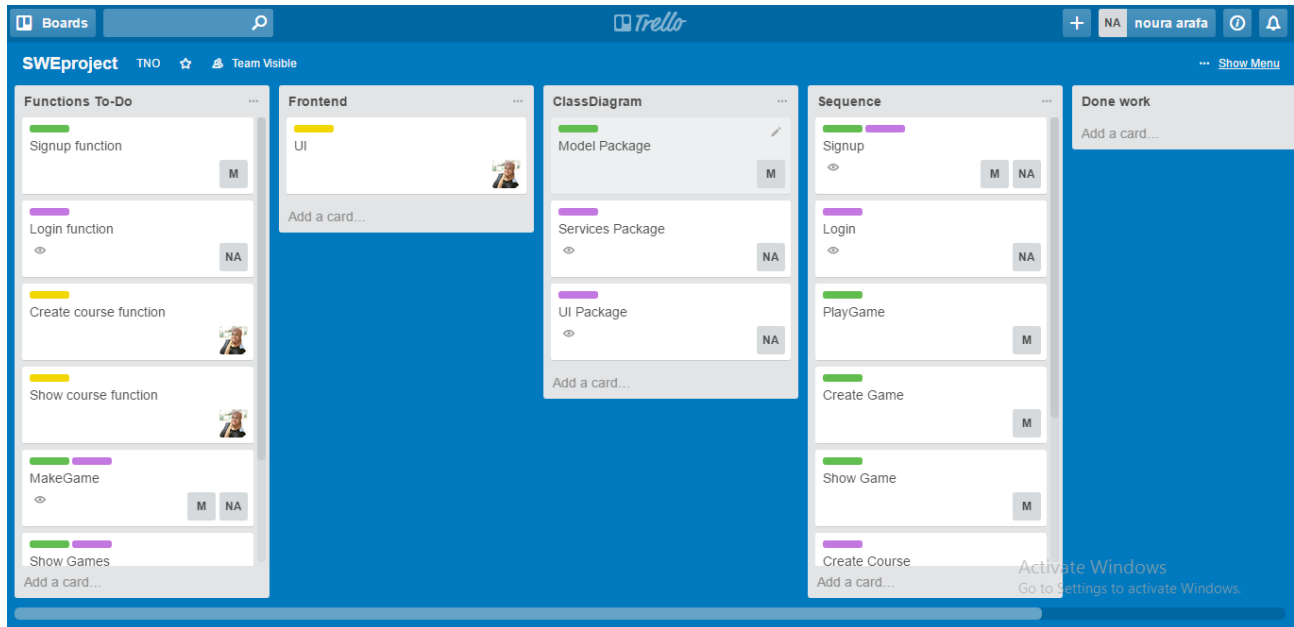




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### Trello workspace screenshot



### Github repository link

<https://github.com/Noura-arafa/Science-Academy>