

Cairo University

Faculty of Computers and Information



CS352 – Software Engineering II

Phase 2 Template

2017

Project Team

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Docs must be supplied as pdf –files re-named as requested

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Your Restful API

- Your restful API should provide read and write to your social network data
- In this section you should describe each service in your RESTful API
- For each service you list service Name input type (GET or POST), Service URL, parameters and description for each parameter, Example request, Example response
- For example: check description of one service from twitter Rest API here https://dev.twitter.com/rest/reference/get/statuses/mentions_timeline
- Use the following table to describe each service



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Topic services

Service name	getAllTopics
Input type	GET
Service URL	/topics
Parameters	
Example request	GET http://localhost:8080/getTopics
Example response	Topic1 Topic2

Service name	getTopic		
Input type	GET		
Service URL	/topics/{id}		
Parameters	NAME	Description	
	Id	Topic ID	
Example request	Get http://localhost:8080/topics/id		
Example response	Topic1 Topic 1 Description		



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Service name	addTopic		
Input type	POST		
Service URL	/topics		
Parameters	NAME	Description	
	Topic	Contents of Topic	
Example request	POST http://localhost:8080/topics		
Example response	Topic1 Added Successfully		

Service name	updateTopic		
Input type	PUT		
Service URL	/topics/{id}		
Parameters	NAME	Description	
	Topic	Contents of Topic	
	Id	updateTopic by ID	
Example request	PUT http://localhost:8080/topics/id		



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Example response	Topic1 updated Successfully
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Service name	deleteTopic		
Input type	DELETE		
Service URL	/topics/{id}		
Parameters	NAME	Description	
	Id	Delete Topic by ID	
Example request	DELETE http://localhost:8080/topics/id		
Example response	Topic1 Deleted Successfully		

User services

Service name	redirectAfterDefault		
Input type	GET		
Service URL	/default		
Parameters	NAME	Description	
	request	Return the default url for a certain role	



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Example request	GET http://localhost:8080/default
Example response	Default Page

Service name	Login
Input type	GET
Service URL	/ , /login
Parameters	
Example request	GET http://localhost:8080 , http://localhost:8080/login
Example response	Logged Successfully

Service name	registration
Input type	GET
Service URL	/register
Parameters	



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Example request	GET http://localhost:8080/register
Example response	

Service name	register		
Input type	POST		
Service URL	/register		
Parameters	NAME	Description	
	User	Checks if it is valid for this user to register	
	bindingResult	Return to the register url agains if errors found	
Example request	POST http://localhost:8080/register		
Example response	Registration successful , http://localhost:8080/register		



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Service name	adminHome
Input type	GET
Service URL	/admin/home
Parameters	
Example request	GET http://localhost:8080/admin/home
Example response	Content Available Only for Users with Admin Role

Service name	studentHome
Input type	GET
Service URL	/student/home
Parameters	
Example request	GET http://localhost:8080/student/home



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Example response	Content Available Only for Users with Student Role
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Service name	teacherHome
Input type	GET
Service URL	/teacher/home
Parameters	
Example request	GET http://localhost:8080/teacher/home
Example response	Content Available Only for Users with Teacher Role

Lesson services

Service name	getLesson	
Input type	GET	
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}	
Parameters	NAME	Description
	courseId	Every course has his own id
	lessonId	Every Lesson has his own id



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Example request	Get <code>http:// /topics/1/courses/1/lessons/1</code>
Example response	it will get lesson whose ID is 1

Service name	getAllLessons	
Input type	GET	
Service URL	<code>/topics/{topicId}/courses/{courseId}/lessons</code>	
Parameters	NAME	Description
	courseId	Int variable.. Every course has it own ID
Example request	Get <code>http:/ /topics/1/courses/1/lessons</code>	
Example response	It will get all the lessons that belong to course ID 1	

Service name	addLesson	
Input type	POST	
Service URL	<code>/topics/{topicId}/courses/{courseId}/lessons</code>	
Parameters	NAME	Description
	lesson	Object from class lesson
	topicId	Int variable ..Every topic has it own ID
	courseId	Int variable ..Every course has it own ID
Example request	Get <code>http:///topics/1/courses/1/lessons</code>	



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Example response	It will add lesson to course ID 1
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Service name	updateLesson	
Input type	PUT	
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}	
Parameters	NAME	Description
	lesson	Object to lesson class
	topicId	Int variable that receive topic Id
	courseId	Int variable that receive course Id
	lessonId	Int variable that receive lesson Id
Example request	Get http://topics/1/courses/1/lessons/1	
Example response	It will update lesson whose id 1 in course id 1 which in topic id 1	

Service name	deleteLesson	
Input type	Delete	
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}	
Parameters	NAME	Description
	lessonId	Every lesson has its own ID



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Example request	Get <code>http:// topics/1/courses/1/lessons/1</code>
Example response	It will delete lesson id 1 in course whose id 1 which is in topic whose id 1

Course services

Service name	getAllCourses		
Input type	GET		
Service URL	/topics/{topicId}/courses		
Parameters	NAME	Description	
	Id	Topic ID	
Example request	Get <code>http://topics/1/courses</code>		
Example response	Course2 Course2 Description Course2 Course2 Description		

Service name	getCourse		
Input type	GET		
Service URL	/topics/{topicId}/{courseId}		
Parameters	NAME	Description	
	Topic id	Topic ID	
	Course id	Course ID	



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Example request	Get /topics/1/1
Example response	Course 1 Description

Service name	addCourse		
Input type	POST		
Service URL	/topics/{topicId}/courses		
Parameters	NAME	Description	
	Id	Topic ID	
Example request	POST /topics/1/courses		
Example response	Successful or Failiure		

Service name	updateCourse		
Input type	PUT		
Service URL	/topics/{topicId}/courses/{courseId}		
Parameters	NAME	Description	
	Id	Topic ID	
	Courseid	Course ID	



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Example request	PUT /topics/1/courses/1
Example response	Update Successful or Failiure

Service name	deleteCourse		
Input type	DELETE		
Service URL	/topics/{topicId}/courses/{courseId}		
Parameters	NAME	Description	
	Id	Topic ID	
	Courseid	Course ID	
Example request	DELETE /topics/1/courses/1		
Example response	Delete Successful or Faliure		

Games services

Service name	getAllGames
Input type	GET



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Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}/games		
Parameters	NAME	Description	
	topicId	Topic ID	
	courseId	Course ID	
	lessonId	Lesson ID	
Example request	GET /topics/1/courses/1/lessons/1/games		
Example response	ThinkandCode	A game for java language	

Service name	getGame		
Input type	GET		
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}/games/{gameId}		
Parameters	NAME	Description	
	topicId	Topic ID	
	courseId	Course ID	
	lessonId	Lesson ID	
	gameId	Game ID	
Example request	GET /topics/1/courses/1/games/1		
Example response	Game window		



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Service name	addGame		
Input type	POST		
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}/games		
Parameters	NAME	Description	
	topicId	Topic ID	
	courseId	Course ID	
	lessonId	Lesson ID	
	gameId	Game ID	
Example request	DELETE /topics/1/courses/1/games		
Example response	Game created		

Service name	updateGame		
Input type	PUT		
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}/games/{gameId}		
Parameters	NAME	Description	
	topicId	Topic ID	
	courseId	Course ID	
	lessonId	Lesson ID	
	gameId	Game ID	
Example request	PUT /topics/1/courses/1/games/1		
Example response	Update is done successfully		



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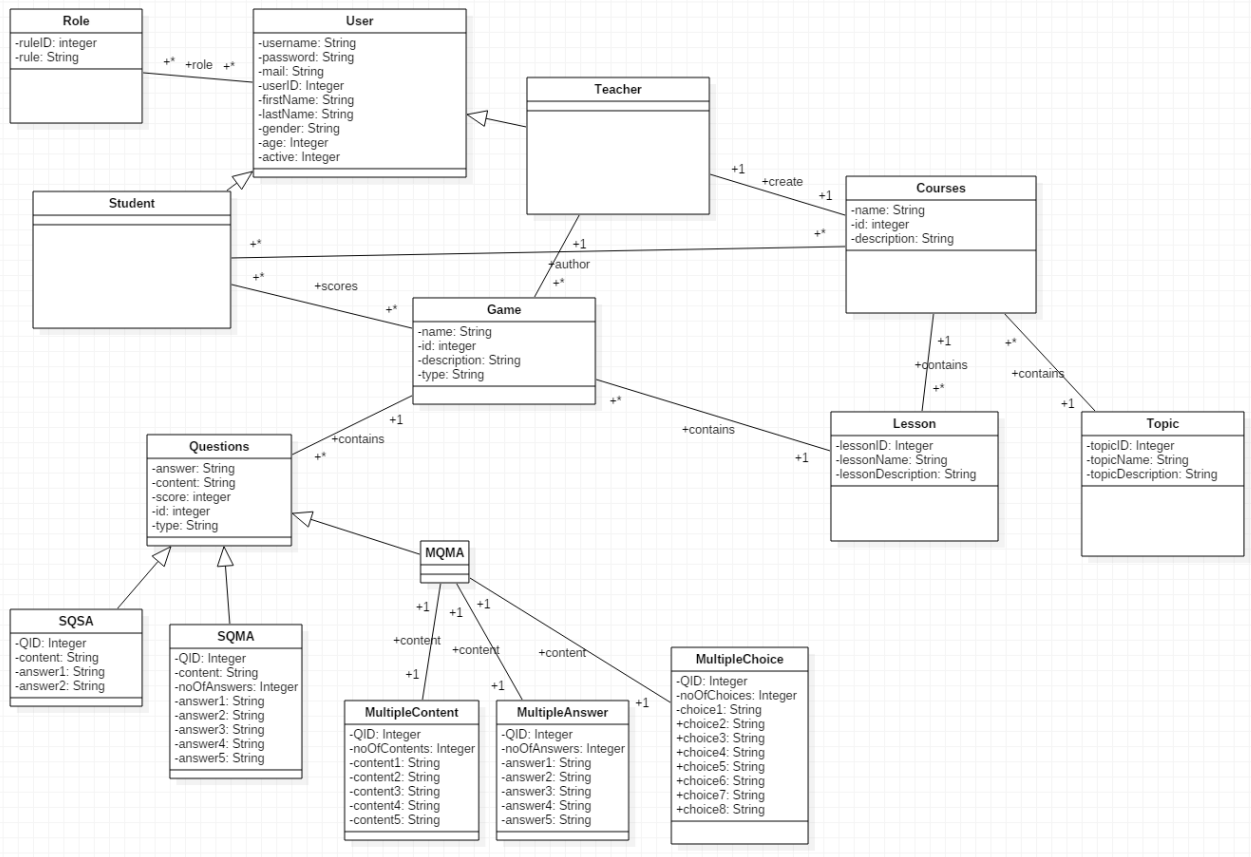
Service name	deleteGame		
Input type	DELETE		
Service URL	/topics/{topicId}/courses/{courseId}/lessons/{lessonId}/games/{gameId}		
Parameters	NAME	Description	
	topicId	Topic ID	
	courseId	Course ID	
	lessonId	Lesson ID	
	gameId	Game ID	
Example request	DELETE /topics/1/courses/1/games/1		
Example response	Delete Successful or Failiure		

Class diagram design



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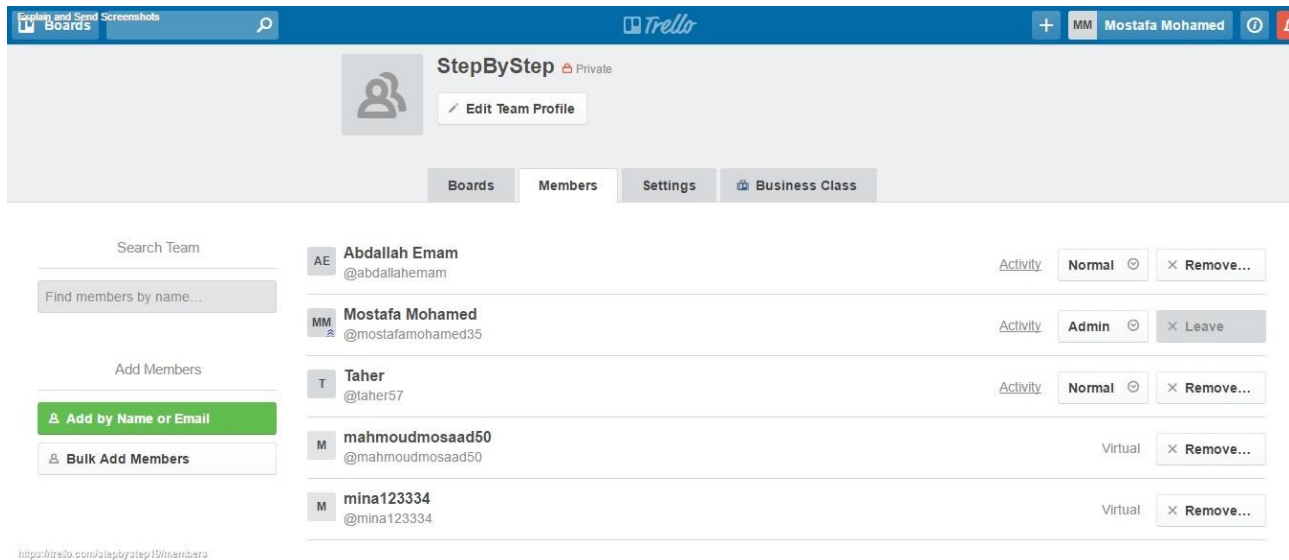
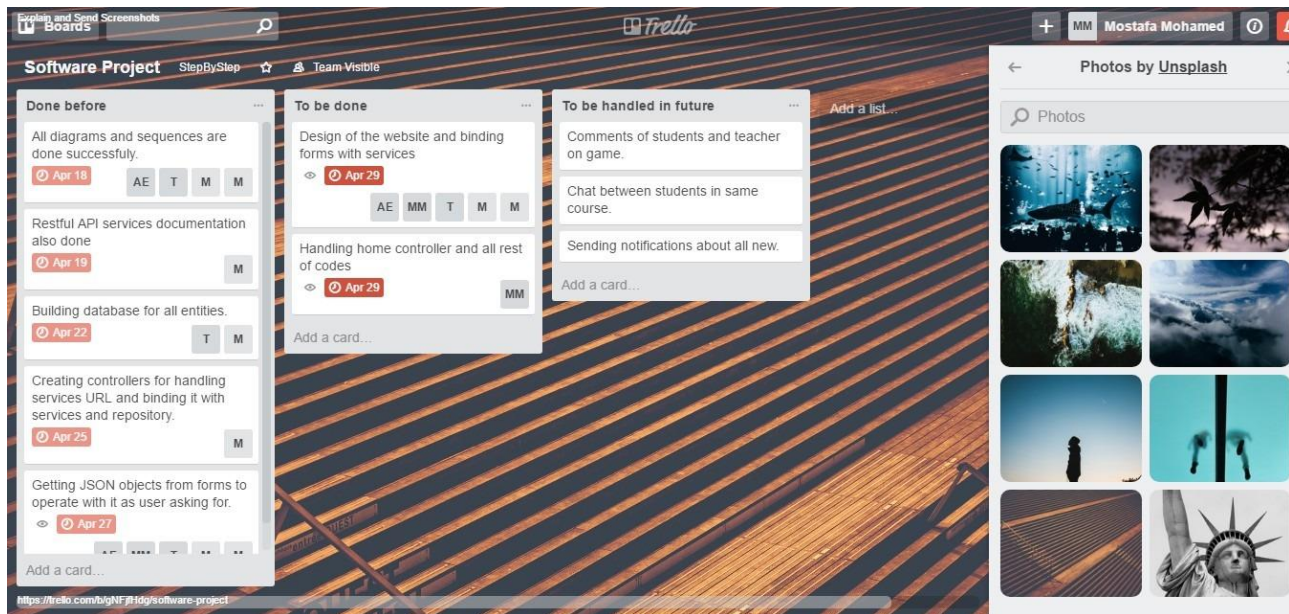


Trello workspace screenshot



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Github repository link

<https://github.com/mahmoud-mosaad/stepbystep>