Summary

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Title of the Project: GameDashboard

Project Summary: The game dashboard website is a place where users can browse subboards for discussion about the games they have interest in. Users can create new posts or continue posts to facilitate discussion. Users can also upvote/downvote posts. In addition, the website will contain a tournament section where users can create and join tournaments

Actor: User, Admin

Project Requirements:

User Requirements				
ID	**Requirement**	**Topic Area**	**Actor**	**Priority**
UR-001	As a admin/User, I should be able to create posts.	Create Post	User, Admin	High
UR-002	As a admin/User, I should be able to edit posts.	Edit Post	User, Admin	High
UR-003	As a admin/User, I should be able to delete posts.	Delete Post	User, Admin	High
UR-004	As a admin/User, I should be able to upvote posts.	Upvote	User, Admin	High
UR-005	As a admin/User, I should be able to downvote posts.	Upvote	User, Admin	High
UR-006	As a admin, I should be able to ban users.	Ban user	Admin	medium
UR-007	As a admin, I should be able to host tournaments.	Host Tournament	Admin	High
UR-008	As a user, I should be able to send the request of creating tournaments to admin	Host Tournament	User	High
UR-009	As a admin, I should be able to create tournaments.	Host Tournament	Admin	High
UR-010	As a user, I should be able to join tournaments.	Join Tournament	User	High
UR-011	As a admin, I should be able to edit tournaments.	Host Tournament	Admin	High
UR-012	As a user/admin, I should be able to Search posts.	Search Post	User, Admin	High

UR-013	A new viewer should be able to Sign Up	Sign Up	User	High
UR-014	As a user/admin, I should be able to Login	Login	User, Admin	High
UR-015	As a user/admin, I should be able to Logout	Login	User, Admin	High
UR-016	As an admin, I should be able to create new game subreddits	Create Subreddit	admin	High
UR-017	as a user/admin, I should be able to select the game subreddit I want to browse	Control Subreddit	user, admin	High
UR-018	as a user/admin, I should be able to register for a tournament	Join Tournament	User, Admin	medium

Business Requirements				
ID	**Requirement**	**Topic Area**	**Actor**	**Priority**
BR-001	A User cannot have more than 1 concurrent pending tournament form	Join Tournament	User	High
BR-002	A User cannot be registered to two tournaments simultaneously	Join Tournament	User	High
BR-003	A User cannot make more than 1 post per 30 seconds.	Create Post	User	High
BR-004	A User cannot make posts with empty content.	Create Post	User	High
BR-005	A username must contain at least 4 characters and at most 10 characters.	Authentication	Admin, Users	High
BR-006	A password must contain at least one capital letter and one number.	Authentication	Admin, Users	High
BR-007	All users must have e-mail addresses.	User Account	User	High

| Functional Requirements				
ID	**Requirement**	**Topic Area**	**Actor**	**Priority**
FR-001	As a system, a list of users should be displayed for admin to ban users.	Ban User	Admin, system	Medium
FR-002	As a system, a list of posts should be displayed in the home page.	Create Post	Admin, user, system	High
FR-003	As a system, posts should be sorted by votes in the home page.	Upvote	User, system	Medium

FR-004	As a system, the results of searches should be listed by name.	Search Post	User, system	Medium
FR-005	As a system, the process of tournaments should be renewed on time.	Host tournament	Admin, user, system	Medium
FR-006	As a system, it should be display the list of tournament information when user click tournament pages.	Join tournament	User, system	High
FR-007	As a system, it should be update brackets and notify players on time.	Join tournament	User, system	Medium
FR-008	As a system, it should display tournament form which user need to fill out.	Host tournament	User, system	Medium
FR-009	As a system, it should check the form from user and send to admin when user already filled in all requirements.	Host tournament	User, system	Medium
FR-010	As a system, it should register a new signed up User to its database	Sign Up	User, system	High
FR-011	As a system, it should verify the login of a user/admin	Login	User, admin, system	High
FR-012	As a system, it should update the status when a user/admin logsout	Login	User, admin, system	High
FR-013	When a new subreddit is created, it is processed and shown on the site	Create Subreddit	system	Medium
FR-014	When a user joins a tournament, the bracket is updated with the userinfo	Join tournament	User, system	Medium

Non-Functional Requirements		
ID	**Requirement**	**Priority**
NFR-001	**Reliability** - The entires of all data must store with a reliable way.	High

NFR-002	**Security -** All data must tranfer with database in secure way.	High
NFR-003	**Performance** - All posts can be displayed in 12 seconds and can be searched in 3 seconds.	medium
NFR-004	**Platform constraints** - all functionalities should be used in all website browsers.	low

5.Use Case:

a.
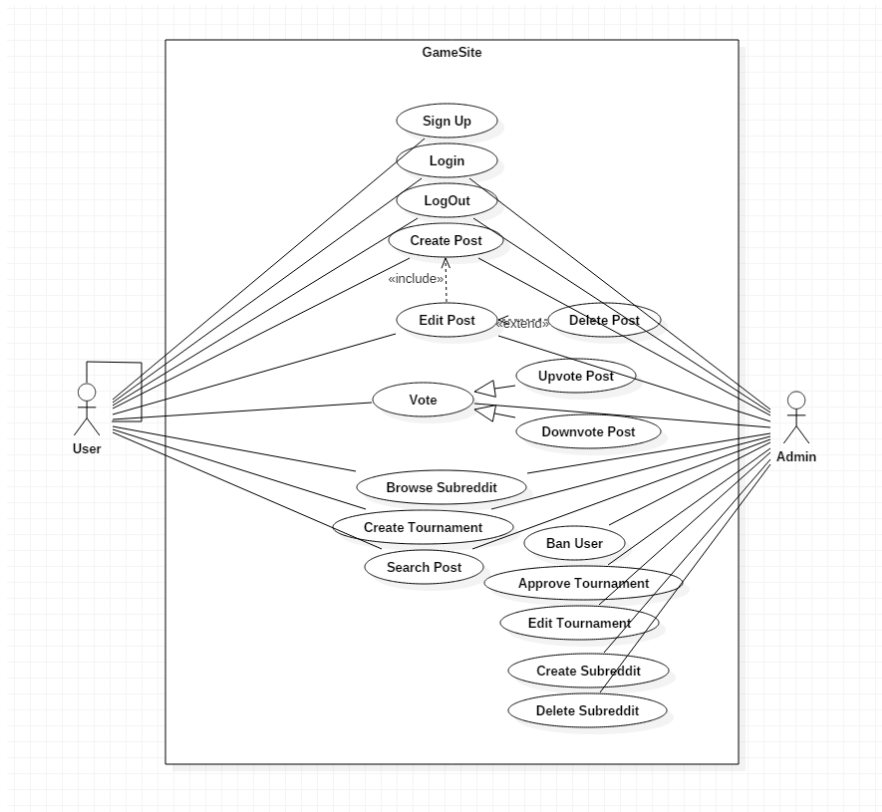
b.

   1.

Use Case ID:	UC-01
Use Case Name:	Register for Tournament
Description:	Logged in users sign up for tournament and is seeded accordingly.

| Actors:	Users		
Pre-conditions:	1. User is logged in. 2. Tournament has not yet started. Past Tournaments are not shown.		
Post-conditions:	1. User is listed in the tournament players list 2. Bracket is updated with the new tournament players list		
Frequency of Use:	Very Frequent		
Flow of Events:		**Actor Action**	**System Response**
	1	Player click on Tournaments tab	Goes to the Tournament page
	2	Player clicks on the game in which he/she wishes to participate tournaments in.	Displays the list of tournament available for selected game.
	3	Player clicks on the specific Tournament he/she wants to join.	Displays the detailed Tournament information
	4	Player clicks on [REGISTER] on the Tournament info.	Bracket is Updated with User info and notify player.
Variations:	3. Quick Registration: Player can click register directly on the website without viewing the detailed Tournament information.		
Exceptions:	Bracket is full. Give appropriate error to user.		
Developer Notes:			

2.

Use Case ID:	UC-02
Use Case Name:	Host a Tournament
Description:	Admin or User hosts a tournament on the site.

Actors:	Admin, Users		
Pre-conditions:	1. User is logged in		
Post-conditions:	1. Tournament is shown on site		
Frequency of Use:	Daily		
Flow of Events:		**Actor Action**	**System Response**
	1	User clicks on Tournaments tab	Displays Tournament page.
	2	User clicks on [Host Tournament]	Displays Form that the User needs to fill out.
	3	Users submits form.	Checks validity of form. If submitted by User, goes to Admin for approval.
	4	Approve or Disapprove of Tournament.	If approved, display tournament. If disapproved, notify user.
Variations:	3. System Response: If tournament submitted by Admin, tournament is processed and displayed		
Exceptions:			
Developer Notes:			

6. Activity Diagrams:

Activity Diagram 1 for UC-01:
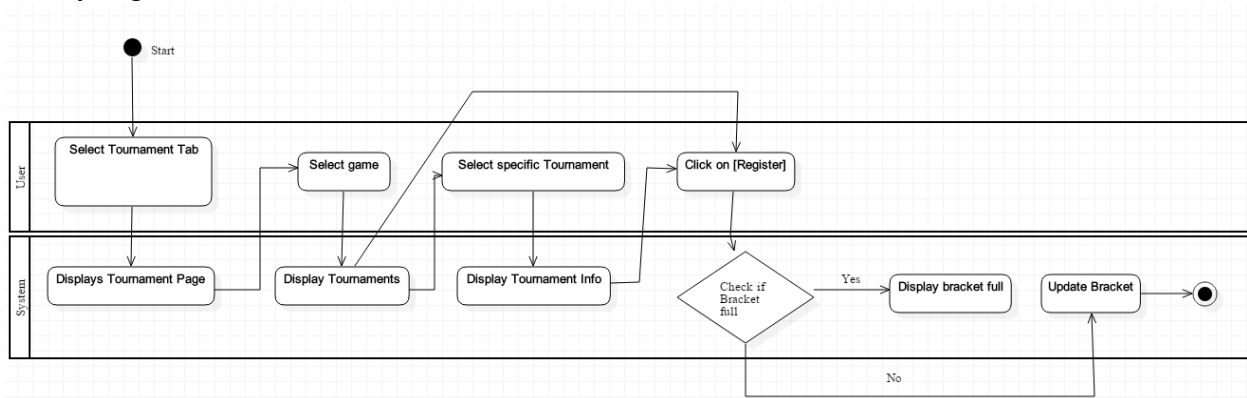
Activity Diagram 2 for UC-02:
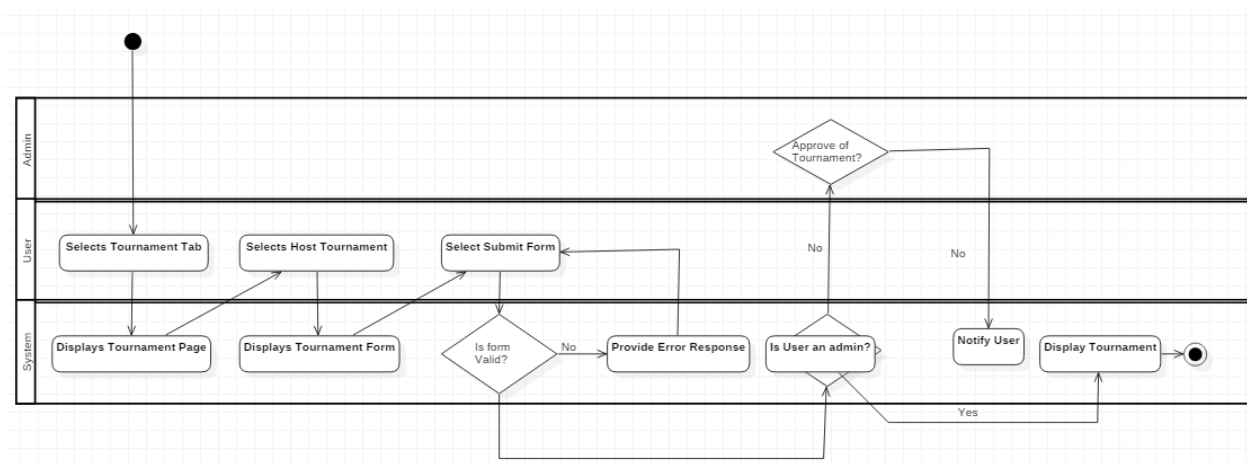
7.UI Mockups:
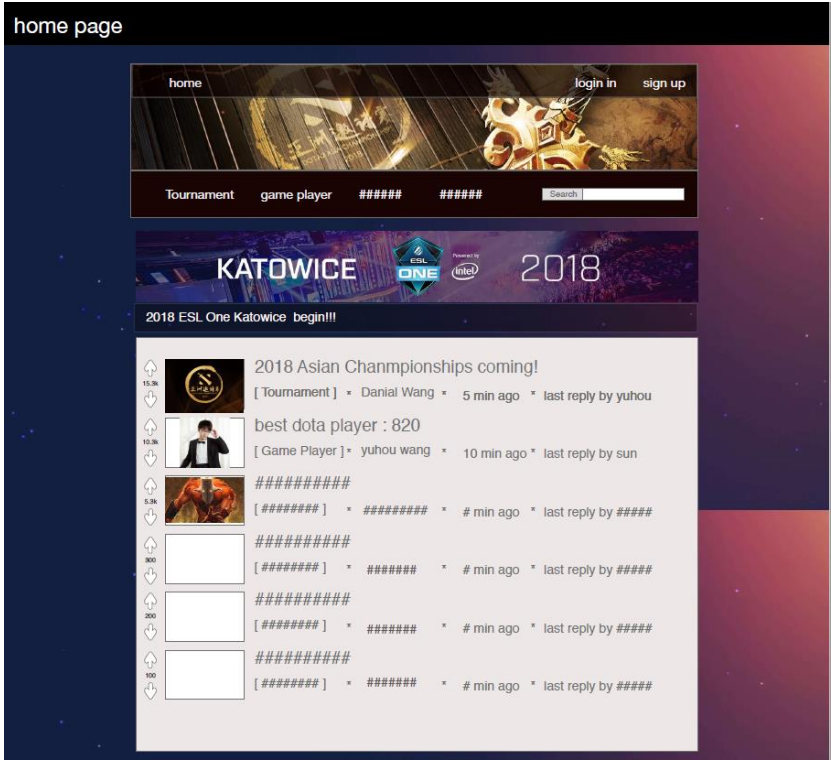
home   login in   sign up

Tournament   ga

KAT

2018 ESL One Katowi

Account password login

login name   yuhouwang

password   **************

login

sign up | forget password?

20   yuhou
[To

best dota player : 820
[Game Player] × yuhou wang × 10 min ago × last reply by sun

##########
[########] × ######## × # min ago × last reply by #####

2018 Asian invitational
[Tournament] × yuhou wang × 5 min ago × last reply by yuhou

2018 Asian invitational
[Tournament] × yuhou wang × 5 min ago × last reply by yuhou

2018 Asian invitational
[Tournament] × yuhou wang × 5 min ago × last reply by yuhou

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home   hello, yuhou wang!   message   setting

Tournament   game player   ######   ######   Search

KATOWICE   ESL ONE   intel   2018

2018 ESL One Katowice begin!!!

2018 Asian Chanmpionships coming!
[Tournament] × Danial Wang × 5 min ago × last reply by yuhou

best dota player : 820
[Game Player] × yuhou wang × 10 min ago × last reply by sun

##########
[########] × ######## × # min ago × last reply by #####

##########
[########] × ######## × # min ago × last reply by #####

##########
[########] × ######## × # min ago × last reply by #####

##########
[########] × ######## × # min ago × last reply by #####

home hello, **yuhou wang!** message setting

your account
host a Tornament
register a Tornament
your post

Tournament game player ###### ###### [Search]

KATOWICE ESL ONE Powered by (intel) **2018**

2018 ESL One Katowice begin!!!

new post

15.3k **2018 Asian Chanmpionships coming!**
[Tournament] × Danial Wang × 5 min ago × last reply by yuhou

10.3k **best dota player : 820**
[Game Player] × yuhou wang × 10 min ago × last reply by sun

5.3k **#########**
[#######] × ####### × # min ago × last reply by #####

300 **#########**
[#######] × ####### × # min ago × last reply by #####

200 **#########**
[#######] × ####### × # min ago × last reply by #####

100 **#########**
[#######] × ####### × # min ago × last reply by #####

UR-001 creat post
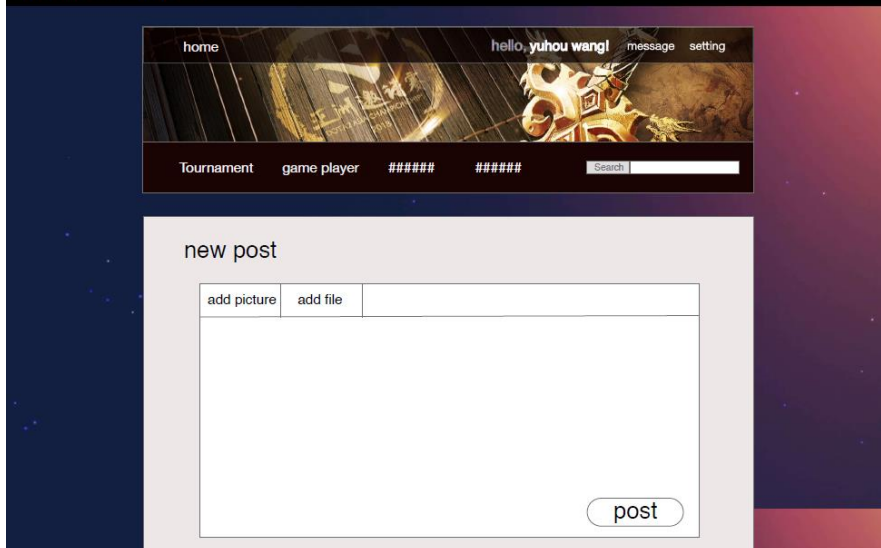
home hello, **yuhou wang!** message setting

Tournament game player ###### ###### [Search]

new post

add picture	add file	

(post)

home

hello, **yuhou wang!**   message   setting

Tournament   game player   ######   ######   Search

edit post

add picture	add file	

Defense of the Ancients (DotA) is a multiplayer online battle arena mod for the video game Warcraft III: Reign of Chaos and its expansion, Warcraft III: The Frozen Throne. The objective of the game is for each team to destroy their opponents' Ancient, a heavily guarded structure at the opposing corner of the map, which is based on the "Aeon of Strife" map for StarCraft. Players use powerful units known as heroes, and are assisted by allied teammates and AI-controlled fighters. As in role-playing games, players level up their heroes and use gold to buy equipment during the mission.

The scenario was developed with the "World Editor" of Reign of Chaos, and was updated upon the release of its expansion, The Frozen Throne. There have been many variations of the original concept, the most popular being DotA Allstars, eventually simplified to DotA. The mod has been maintained by several authors during development, with the pseudonymous designer, known as IceFrog, maintaining the game since the mid-2000s.

DotA became a feature at several worldwide tournaments, including Blizzard Entertainment's BlizzCon and the

post

Home

hello, **Daniel Wang!**   message   setting

Current games   Teams   Team members   Calendar   Search

2018 A

Author: Da

Defense of   of
Chaos and   roy their
opponents'   on of
Strife" map   and AI-
controlled f   ng the
mission.

The scenar   its
expansion,   ing
DotA Allsta   ment,
with the ps

DotA becar   e Asian
World Cyb   s of any
game.[1] DotA is largely attributed to being the most significant inspiration for the multiplayer online battle arena
genre.[2] American video game developer Valve Corporation acquired the intellectual property rights to DotA in 2009
to develop a stand-alone sequel, Dota 2, which released in July 2013.[3][4]

delete post

are you sure you want to delete the post?

yes   no

| 15.3k   downvote   eidit post   delete post

Exciting news for ALL DOTA2 FANS!!!!!

DotaXXAAA   2 days ago

Defense of the Ancients pits two teams of players against each other: the Sentinel and the Scourge. Players on the Sentinel team are based at the southwest corner of the map, and those on the Scourge team are based at the northeast corner.

yuhou wang   5 mins ago

UR-004 up vote and UR-005 downvote

Home   hello, **Daniel Wang!**   message   setting

Current games   Teams   Team members   Calendar   Search [   ]

2018 Asian Chanmpionships is Coming!

Author: Daniel Wang   Edit Date: 2018/6/18

Defense of the Ancients (DotA) is a multiplayer online battle arena mod for the video game Warcraft III: Reign of Chaos and its expansion, Warcraft III: The Frozen Throne. The objective of the game is for each team to destroy their opponents' Ancient, a heavily guarded structure at the opposing corner of the map, which is based on the "Aeon of Strife" map for StarCraft. Players use powerful units known as heroes, and are assisted by allied teammates and AI-controlled fighters. As in role-playing games, players level up their heroes and use gold to buy equipment during the mission.

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DotA became a feature at several worldwide tournaments, including Blizzard Entertainment's BlizzCon and the Asian World Cyber Games. Critical reception to DotA was positive, with it being called one of the most popular mods of any game.[1] DotA is largely attributed to being the most significant inspiration for the multiplayer online battle arena genre.[2] American video game developer Valve Corporation acquired the intellectual property rights to DotA in 2009 to develop a stand-alone sequel, Dota 2, which was released in July 2013.[3][4]

upvoted |15.3k   downvote   eidit post   delete post

Exciting news for ALL DOTA2 FANS!!!!!

                                          DotaXXAAA   2 days ago

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                                          yuhou wang   5 mins ago

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UR-008 Host Tournament

home   hello, **yuhou wang!**   message   setting

Tournament   game player   ######   ######   Search [   ]

Host a Tournament

Tournament name   [   ]

Tornament time   [##M/##D/##Y-##M/##D/##Y]

Max participants   [   ]

total bouns   [   ]

type of game   [   ]

Detail   [   ]

                  (submit)

home   hello, yuhou wang!   message   setting

Tournament   game player   ######   ######   Search

Game of Tournament

Dota2

Hearthstone

Battlegrounds

Battlefield

home   hello, yuhou wang!   message   setting

Tournament   game player   ######   ######   Search

Tournament

register

name : 2018 Asian Chanmpionships
time : 2018/3/1 - 2018/3/5
number of participants : 20/30
The total number of bonus: $ 100,000   Detail
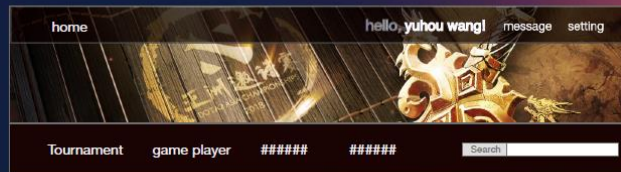
register

name: 2018 esl one katowice
time : 2018/2/28 - 2018/2/30
number of participants : 19/20
The total number of bonus: $ 30,000   Detail

home hello, yuhou wang! message setting

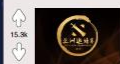Tournament game player ###### ###### Search

2018 Asian Chanmpionships

name : 2018 Asian Chanmpionships
time : 2018/3/1 - 2018/3/5
number of participants : 10/16
The total number of bonus: $ 100,000
1st bonus : $ 50,000
2th bonus : $ 30,000
3th bonus : $ 20,000

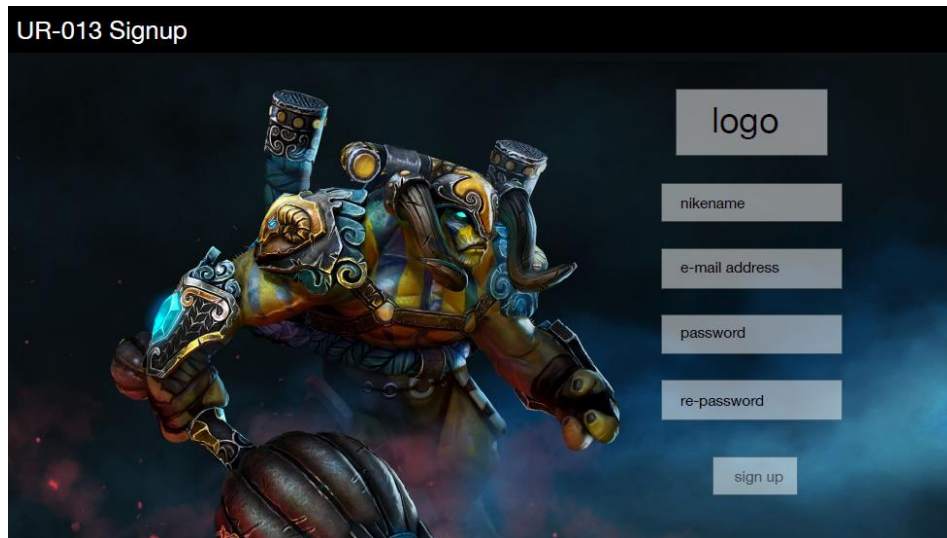register

home hello, yuhou wang! message setting

Tournament game player ###### ###### Search 2018 Asian Chanmpionshi

KATOWICE ESL ONE Powered by intel 2018

2018 ESL One Katowice begin!!!

2018 Asian Chanmpionships coming!

[Tournament] ▪ Danial Wang ▪ 5 min ago ▪ last reply by yuhou

15.3k

UR-013 Signup

logo

nikename

e-mail address

password

re-password

sign up

8.User Interactions:

Sequence diagram 1

Use case ID: UC-01

Requirement ID:FR-006

Requirement ID: FR 005, 006, 014   UseCase ID: UC-017   UseCase Name: Join Tournament
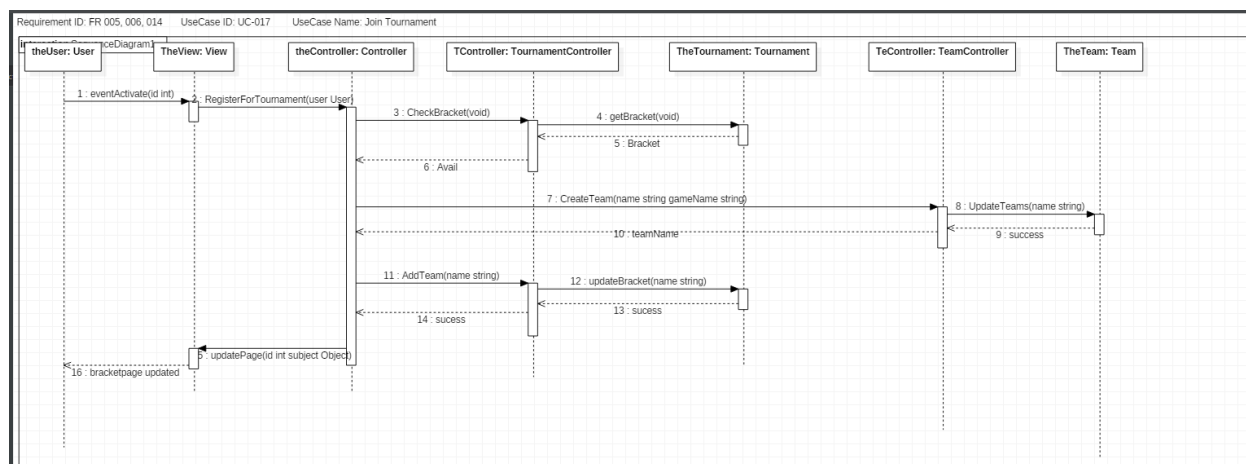
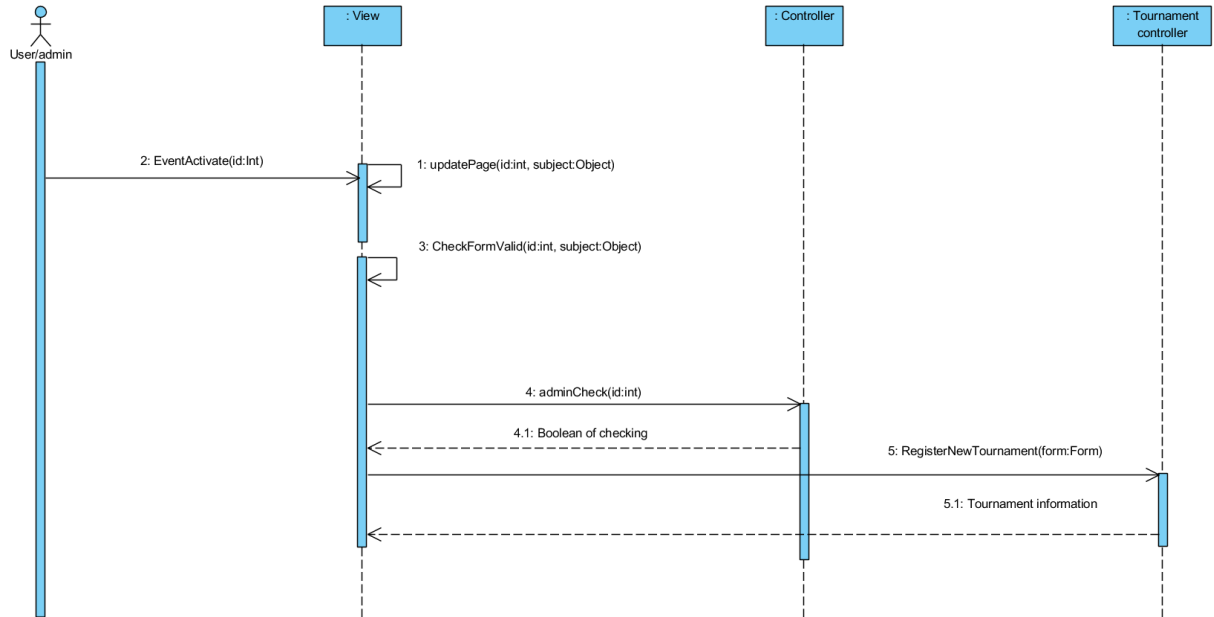**Sequence diagram 2**

Use case ID: UC-02

Requirement ID:FR-008, FR-009

9. Class Diagram