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

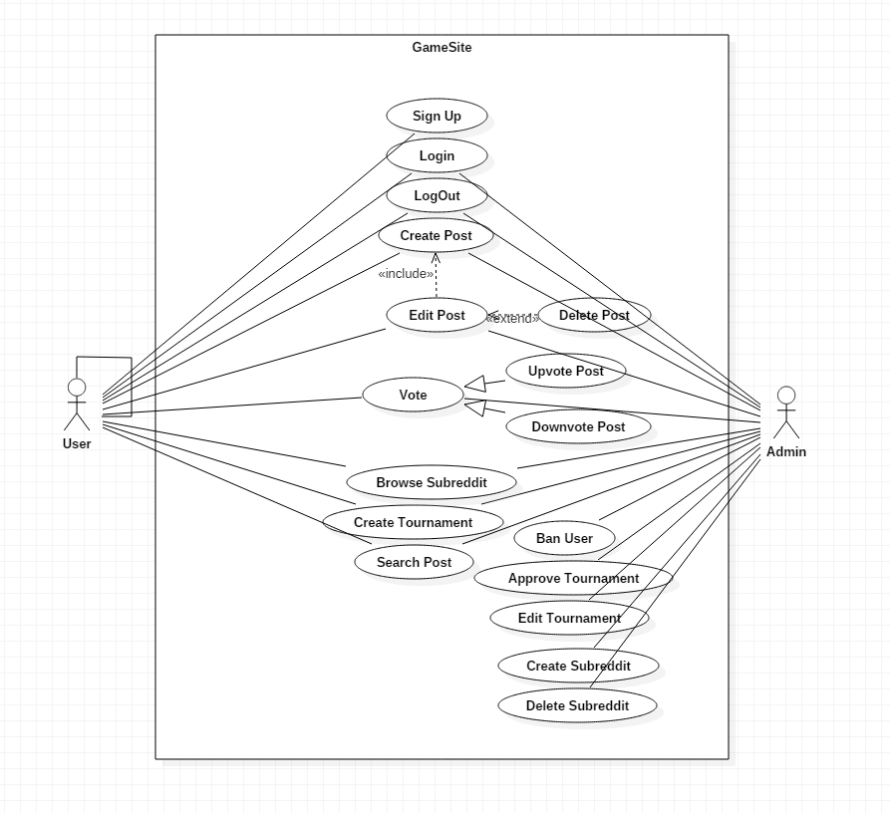
FR-004	As a system, the results of searches should be listed by name.	Search Post	User, system	Medium
FR-005	As a system, the process of tournaments should be renewed on time.	Host tournament	Admin, user, system	Medium
FR-006	As a system, it should be display the list of tournament information when user 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:			

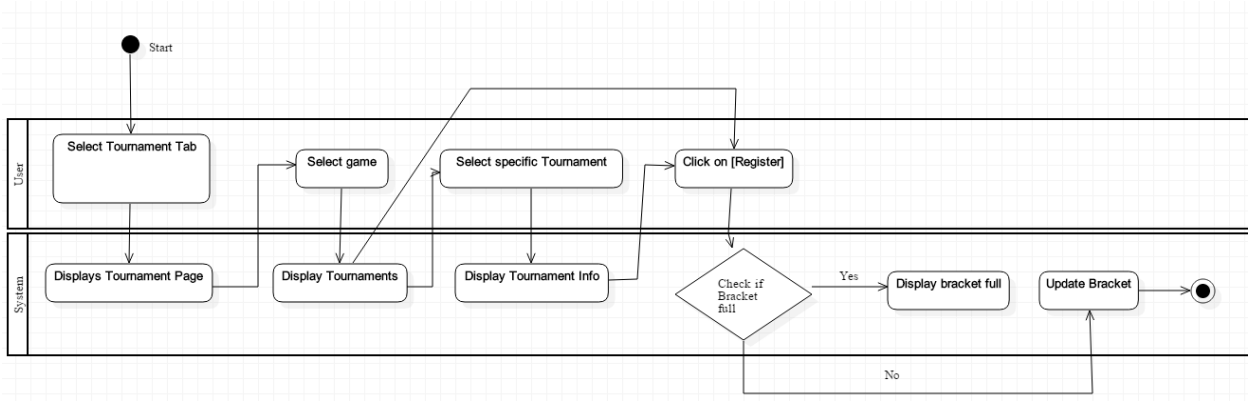
2.

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

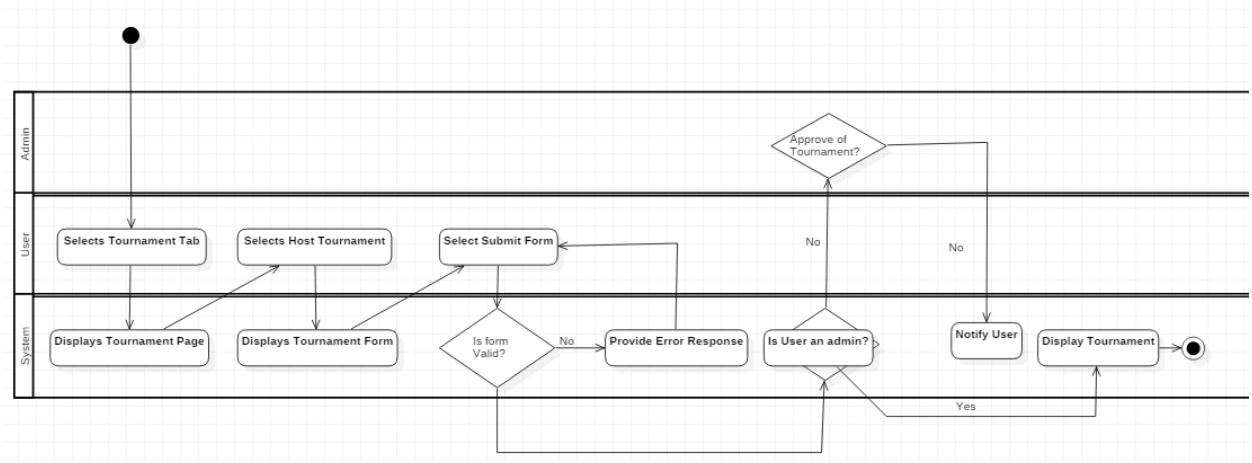
Actors:	Admin, Users		
Pre-conditions:	1. User is logged in		
Post-conditions:	1. Tournament is shown on site		
Frequency of Use:	Daily		
Flow of Events:		**Actor Action**	**System Response**
	1	User clicks on Tournaments tab	Displays Tournament page.
	2	User clicks on [Host Tournament]	Displays Form 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:

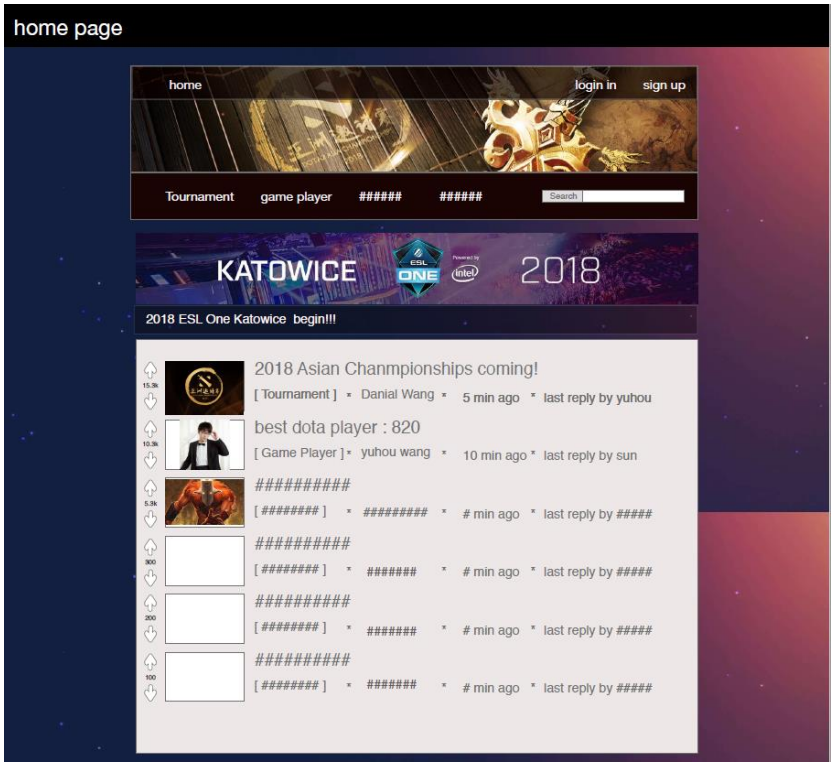
Activity Diagram 1 for UC-01:



Activity Diagram 2 for UC-02:



7.UI Mockups:


home page
home
login in
sign up
Tournament
game player
######
######
Search
KATOWICE
ESL ONE
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
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[########] × ######### × # min ago × last reply by #####
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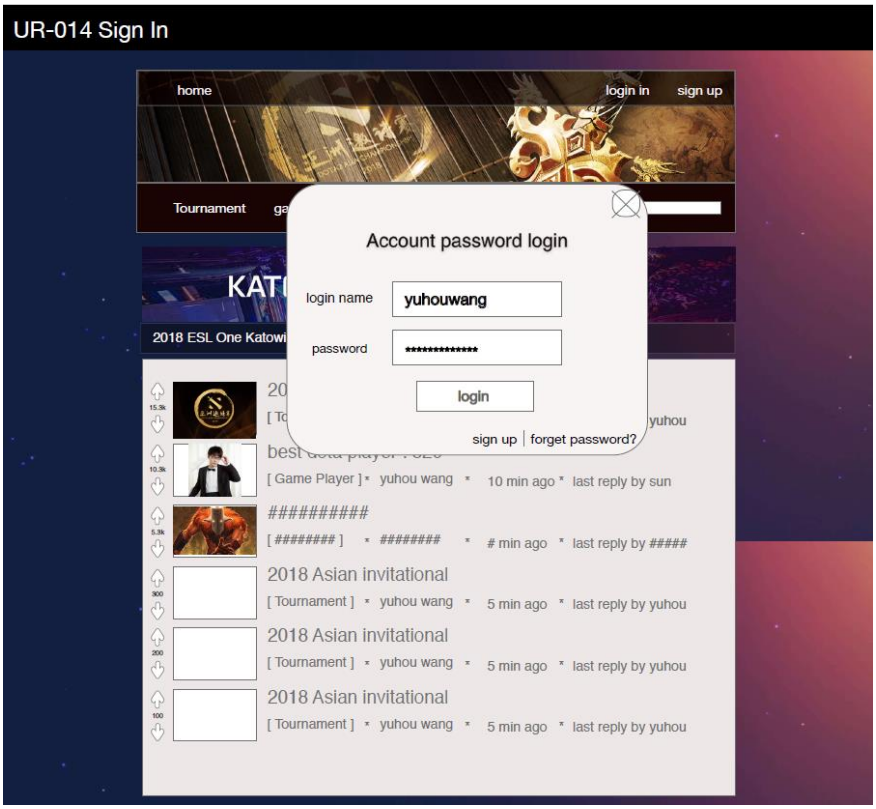
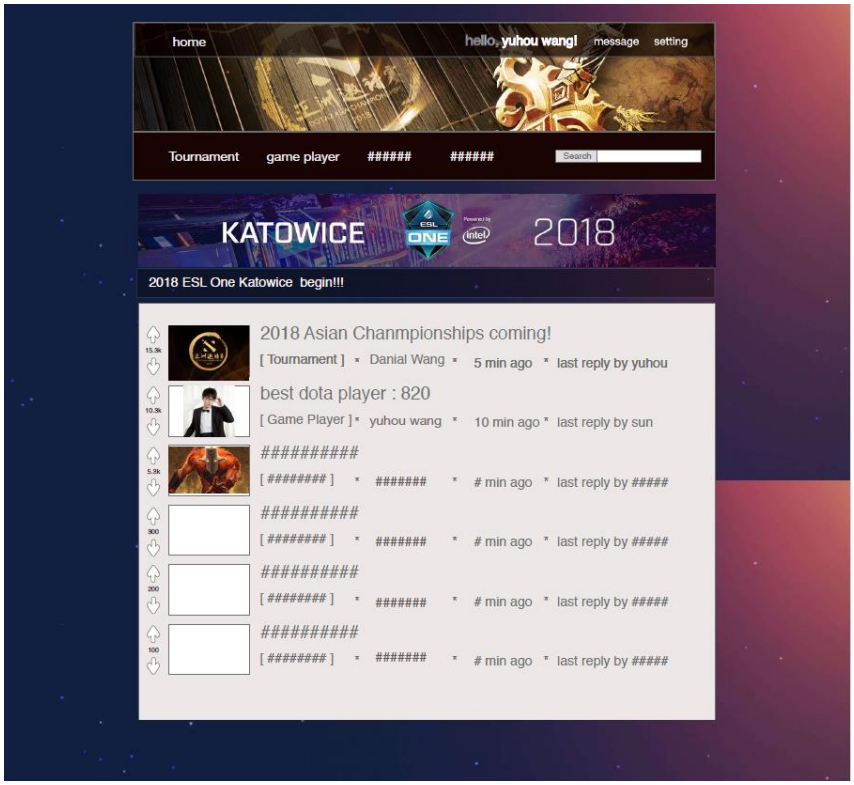
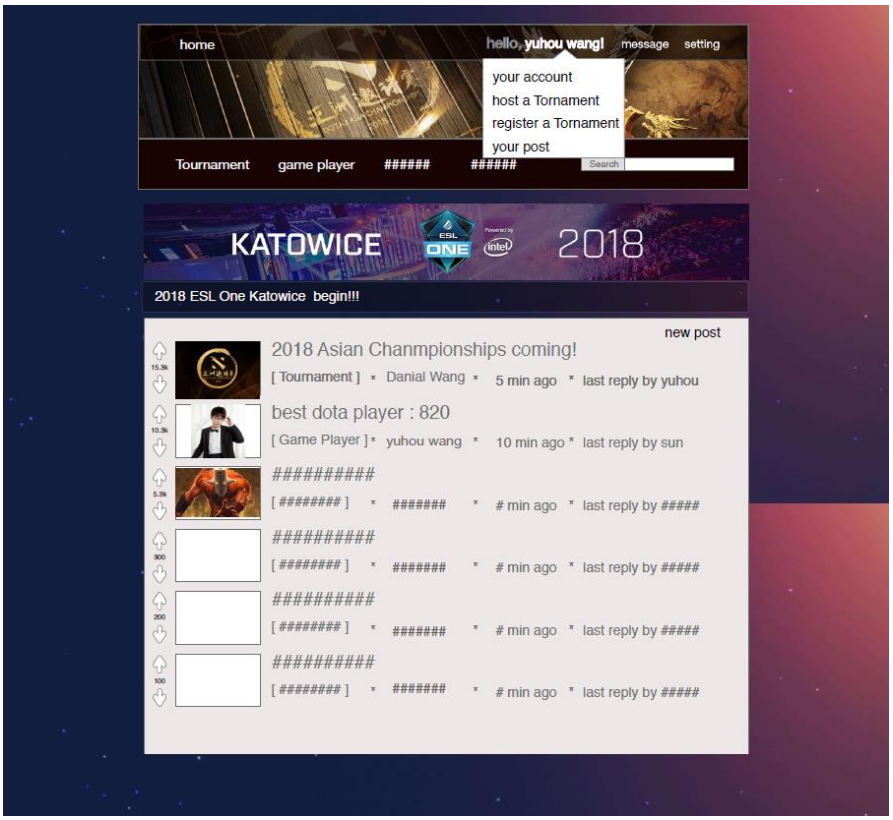
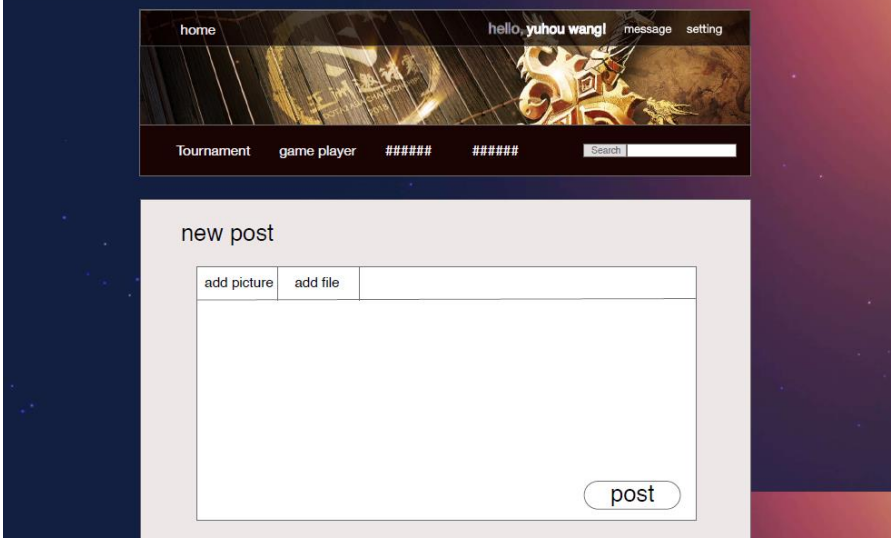
UR-014 Sign In



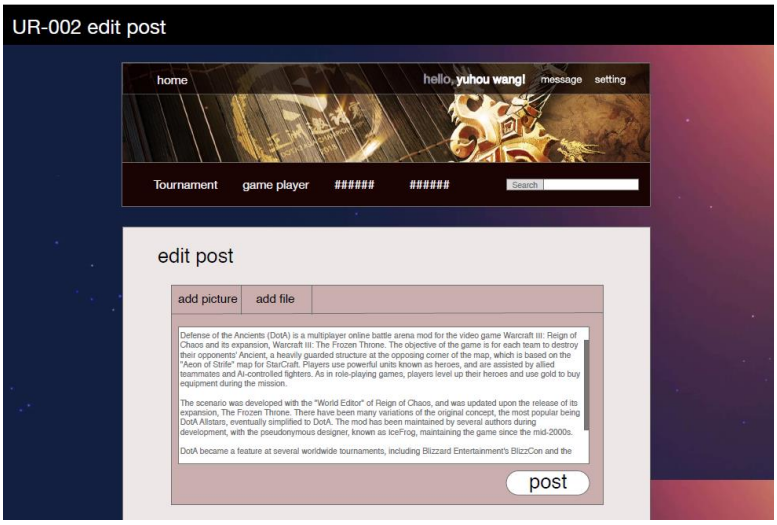




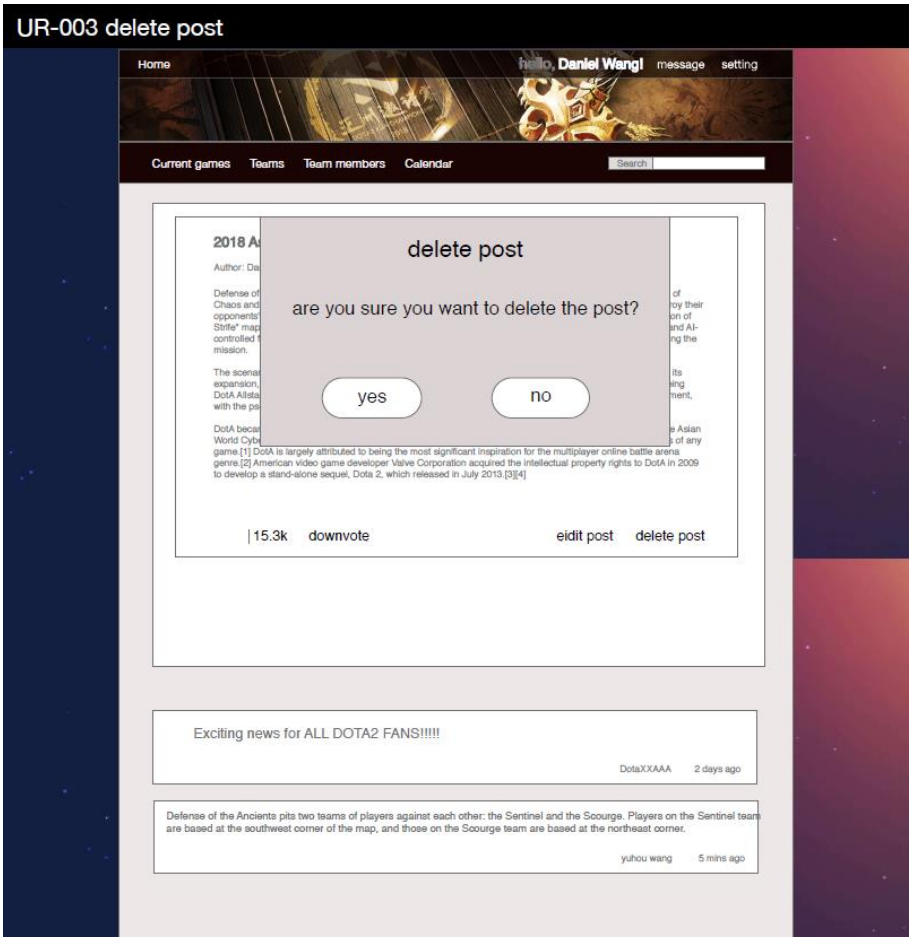
UR-001 creat post



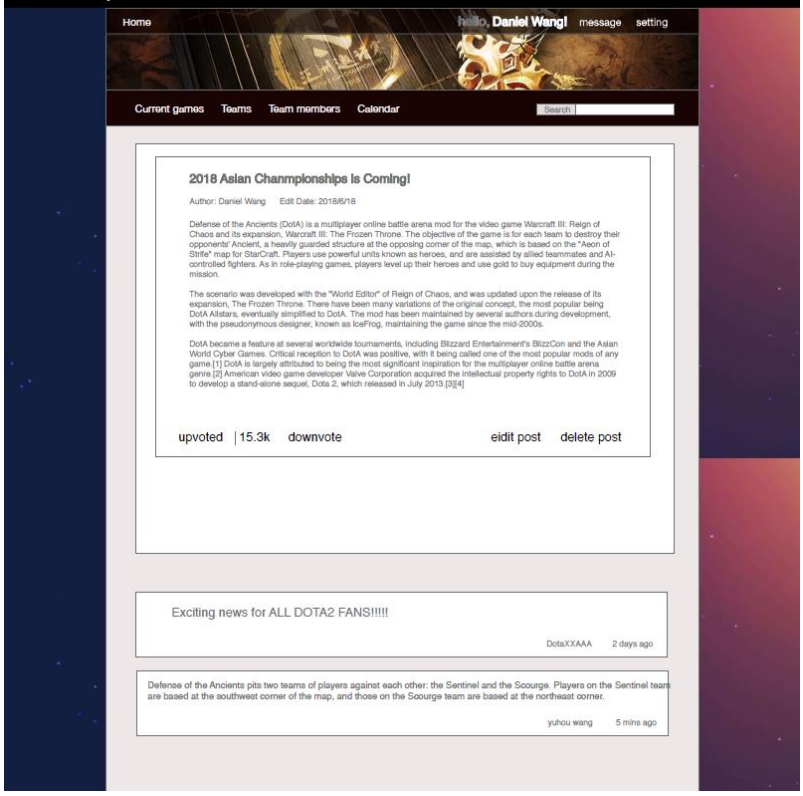
UR-002 edit post



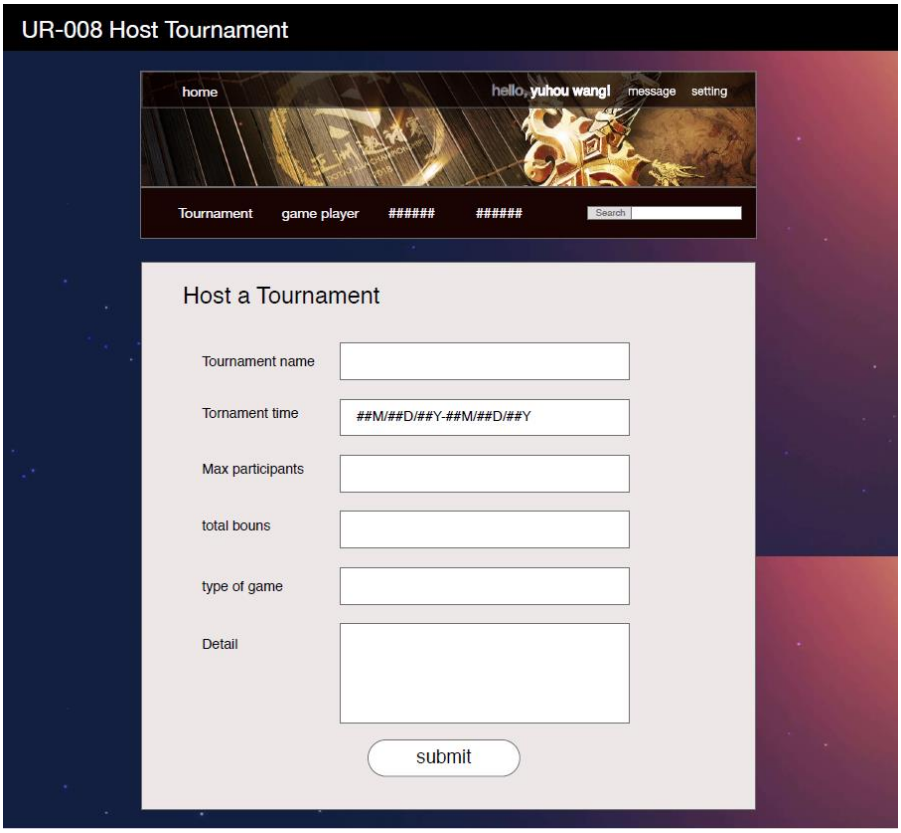
UR-003 delete post



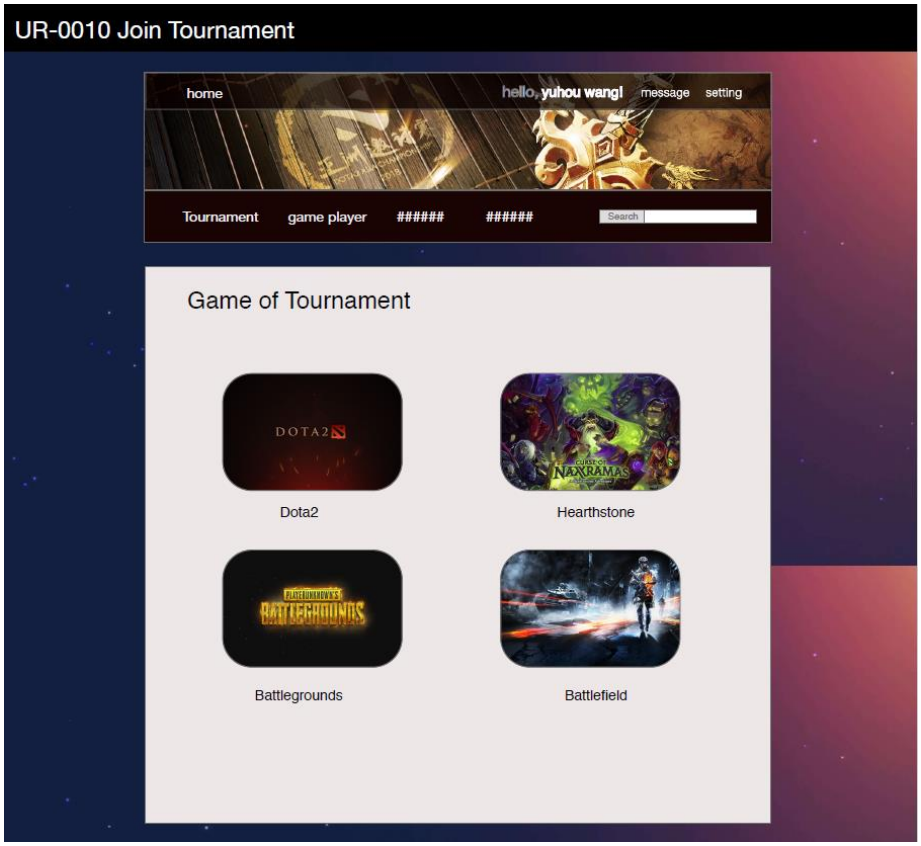
UR-004 up vote and UR-005 downvote



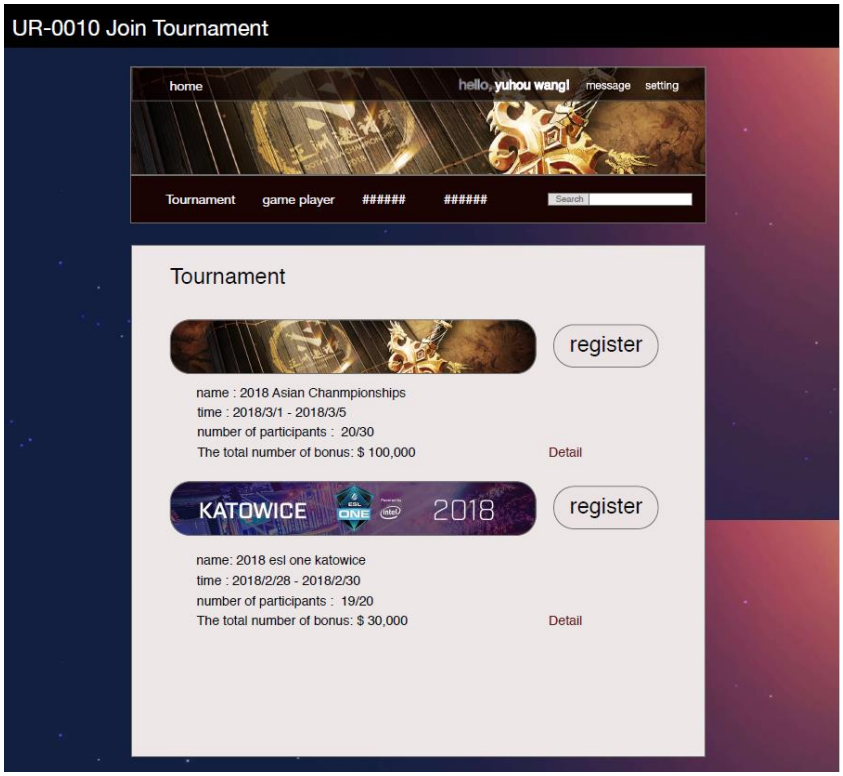
UR-008 Host Tournament



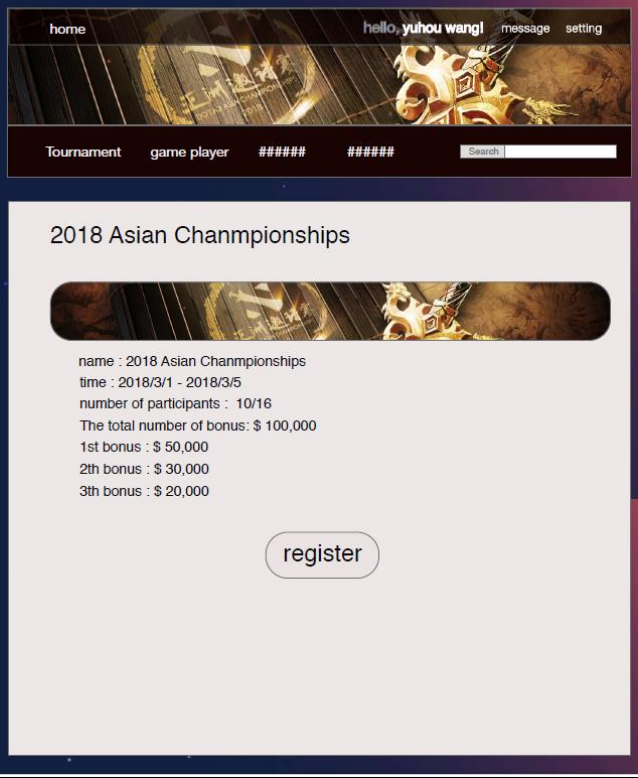
UR-0010 Join Tournament



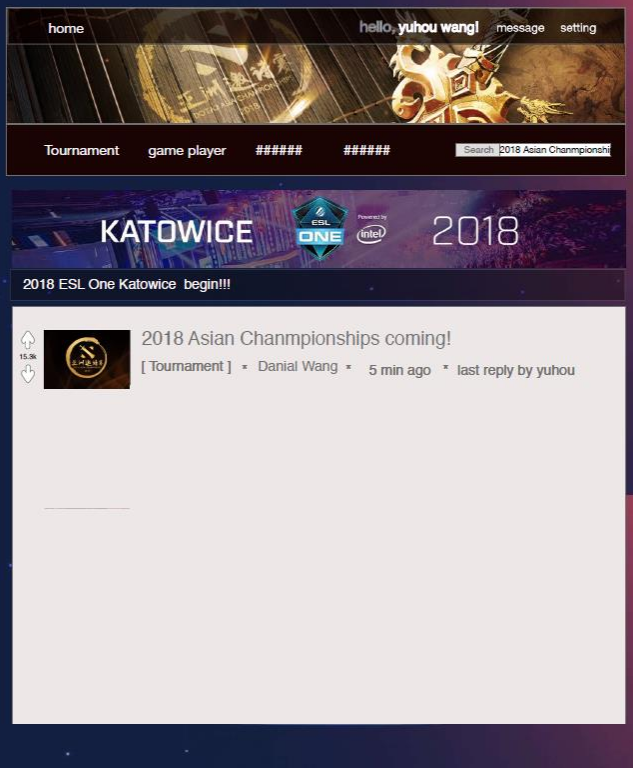
UR-0010 Join Tournament

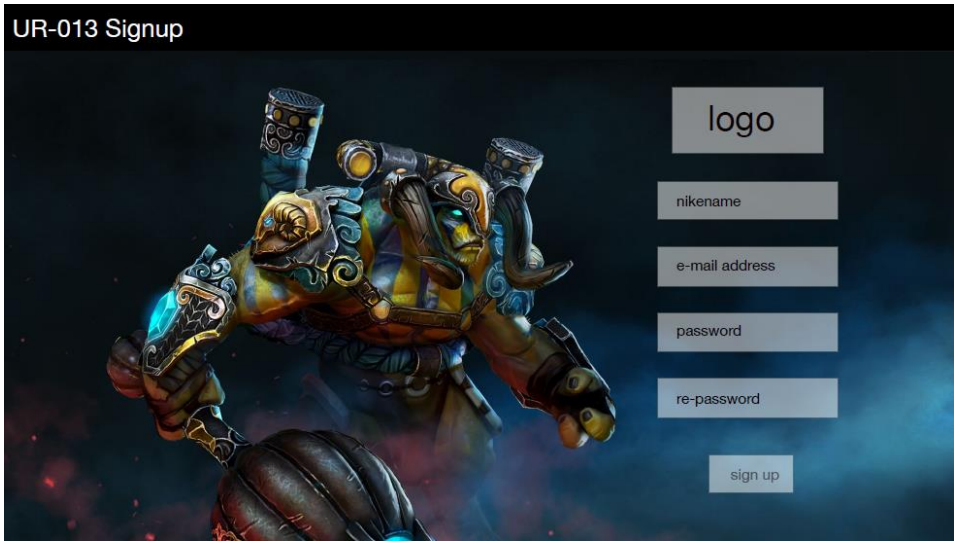


FR-008 Display Tournament



UR-0012 Seach Post



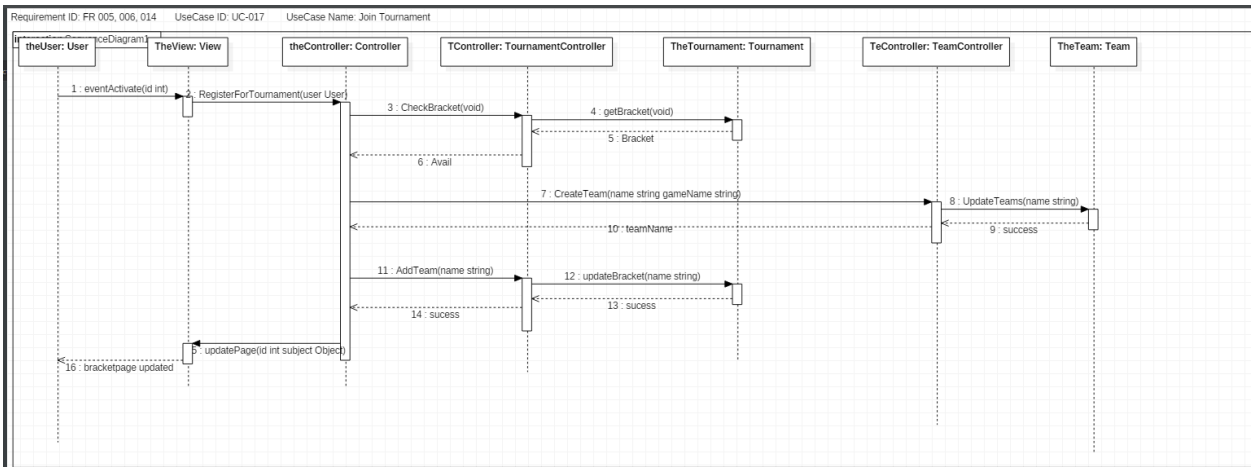


8.User Interactions:

Sequence diagram 1

Use case ID: UC-01

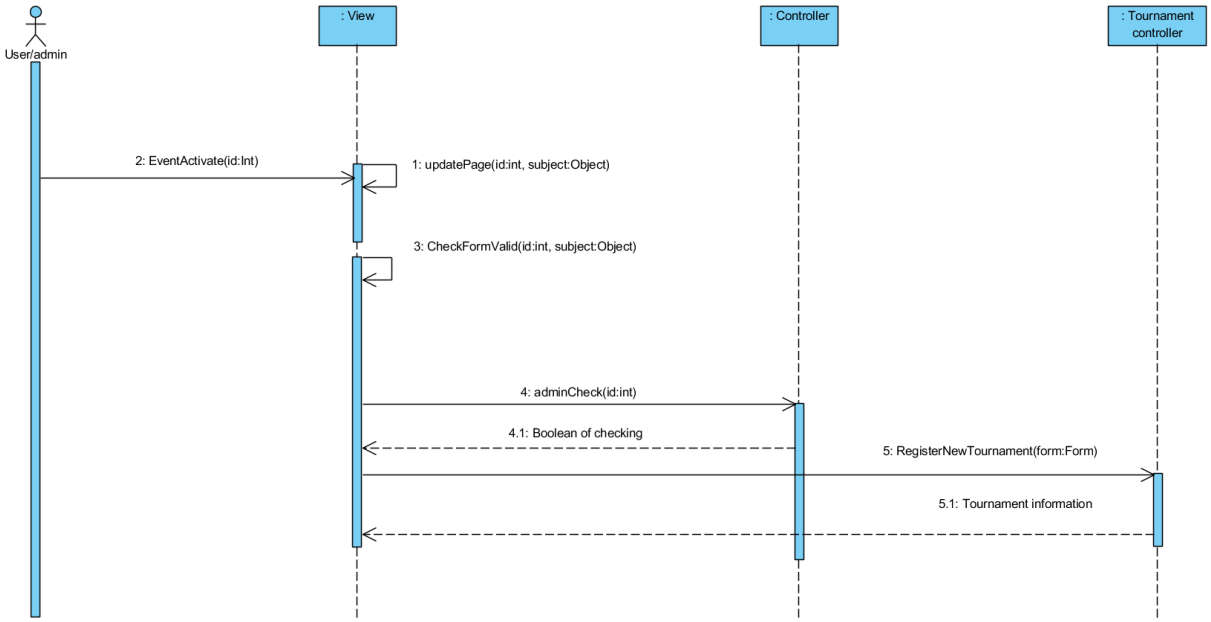
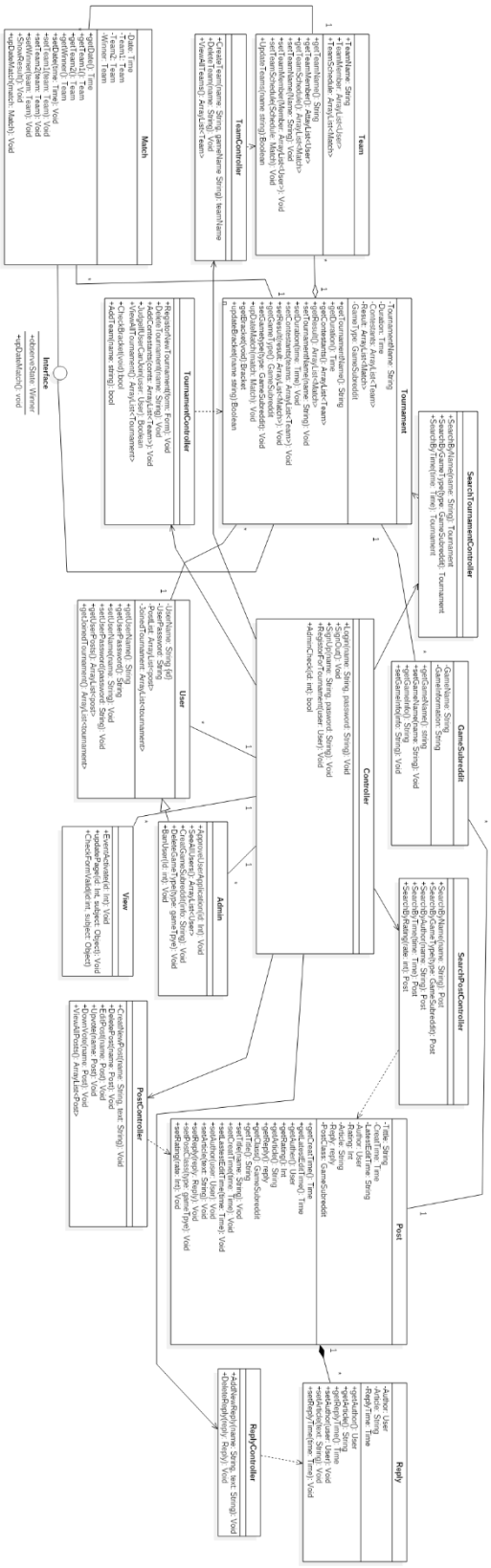
Requirement ID:FR-006



Sequence diagram 2

Use case ID: UC-02

Requirement ID:FR-008, FR-009



9. Class Diagram