**SOFTWARE REQUIREMENTS SPECIFICATION**

**Sport Social Network**

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# Revisions

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 0.1 | Oct 14 2016 | Hoang Truong | Initial SRS |
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# Introduction

## Purpose

A social network for soccer lover that help they create match, communicate to play together.

The document contains:

* Usecase for project.
* Detailed description of screens and functionalities

Technical considerations

## Referenced documents

# General description

## Product scope

The Sport Social Network includes web application and web service. It offers a solution for user who love soccer can create match, share match and invite other players to play together, or they can join any matches that are available.

## Product functions

Main functionalities:

* Manage match/tournament: create, assign, update and delete.
* Share match/tournament.
* Invite and join any match/tournament

## Operating environments

### Operating systems

The webapp is available on any mobile devices and any OSes with a web browser

The Web service can run on Window/Linux server.

## Design and implementation constraints

The Sport Social Network will be a web application to maximize the availability. User can access in any devices with a modern browser.

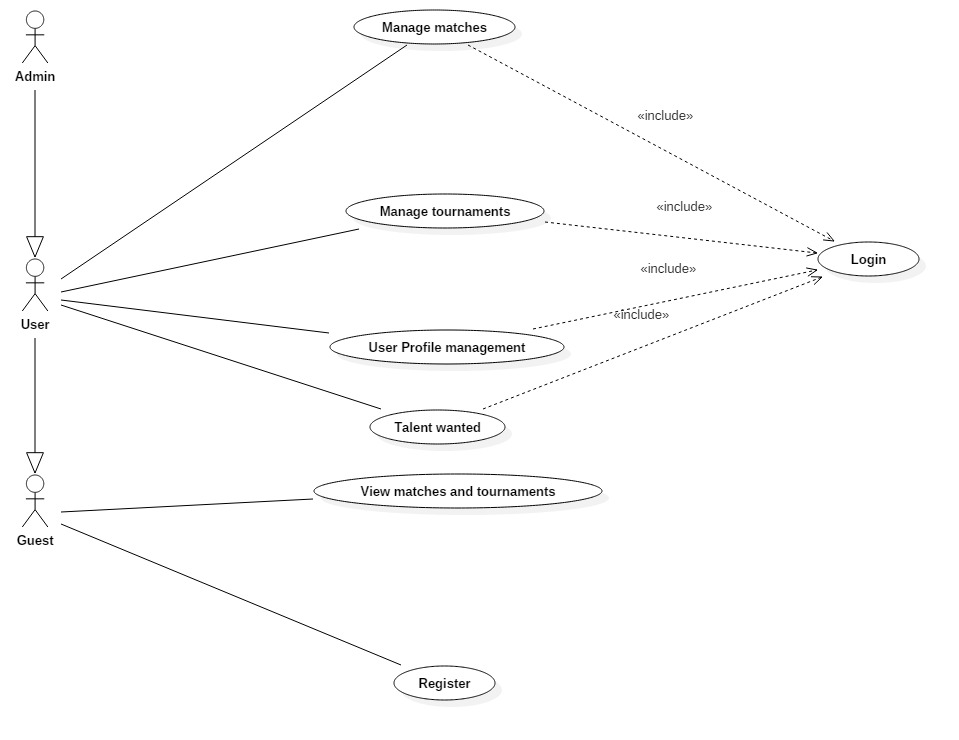
The web service will be host in a webserver and serve REST API for the web app, this can be extend for future for mobile app.

# Actor and usecase

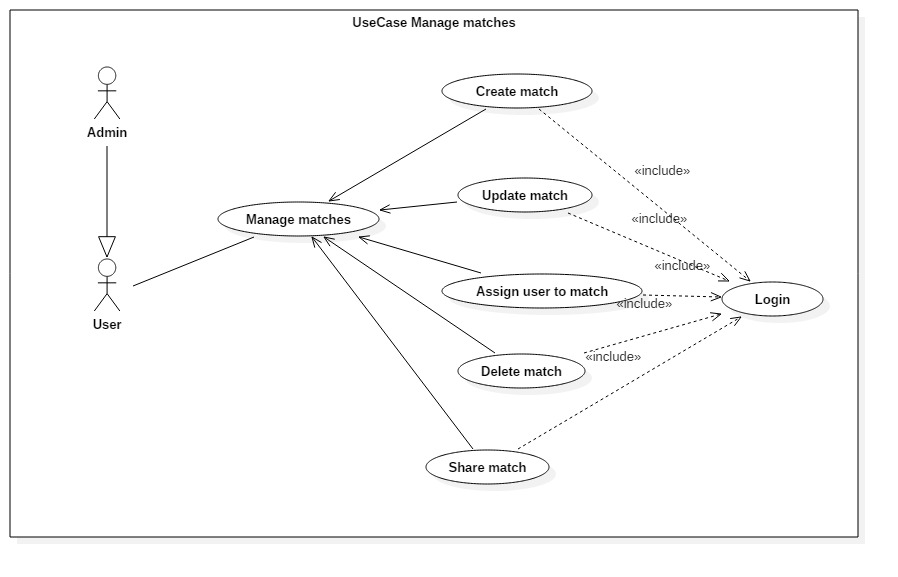
## Actors

|  |  |
| --- | --- |
| **Actor** | **Description** |
| Administrator | * Login * Manage any matches * Manage any tournaments * Mange User Profiles |
| U User | * Login * Manage match this user created * Manage tournament this user created * Share matches/tournaments * Talent wanted: recruit good player |
| Guest | * View any matches/tournament * Register |

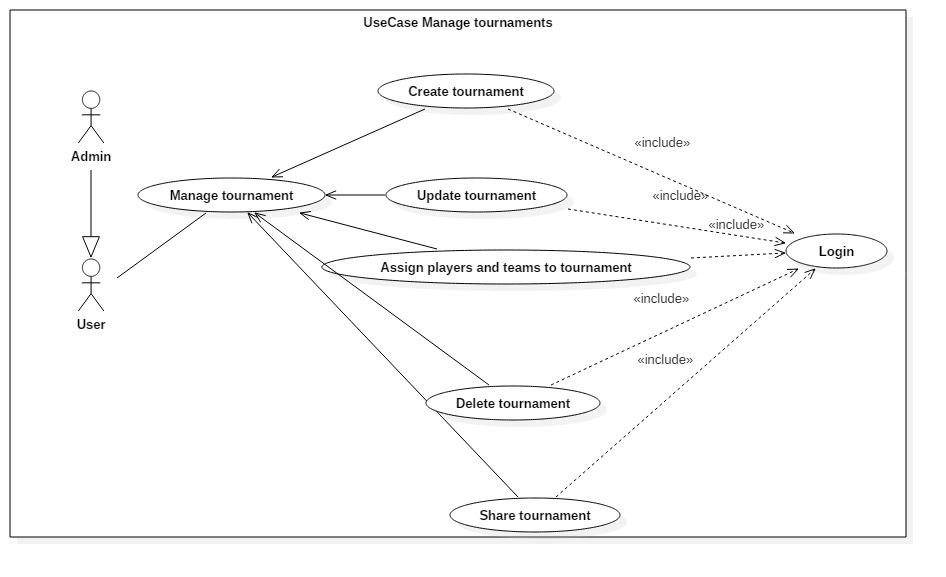
## System usecase



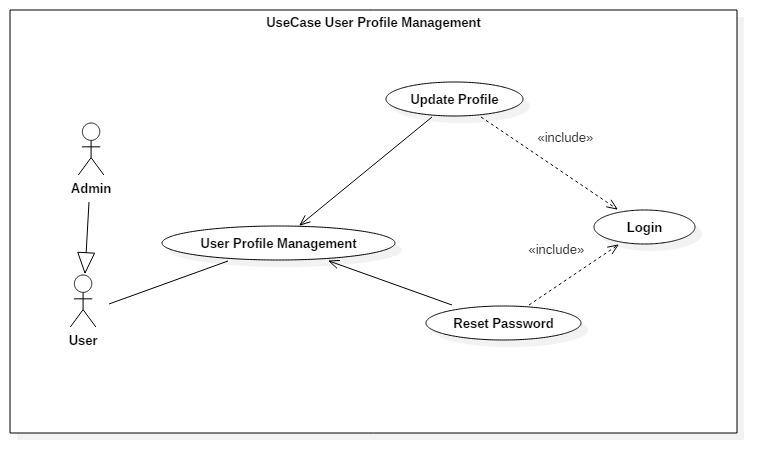
### Manage matches detail



### Manage tournament detail



### User Profile Management detail

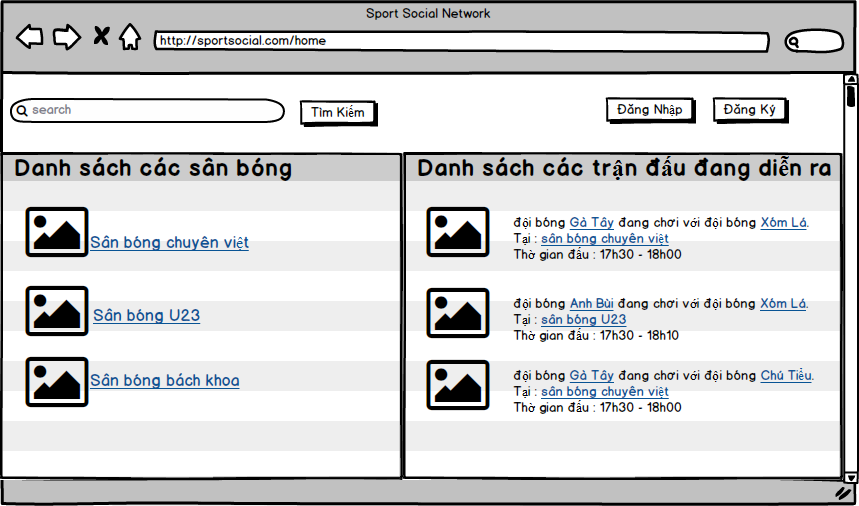


# EXTERNAL INTERFACE FEATURES

The user is able to use the App according to the flow of screens describe below.

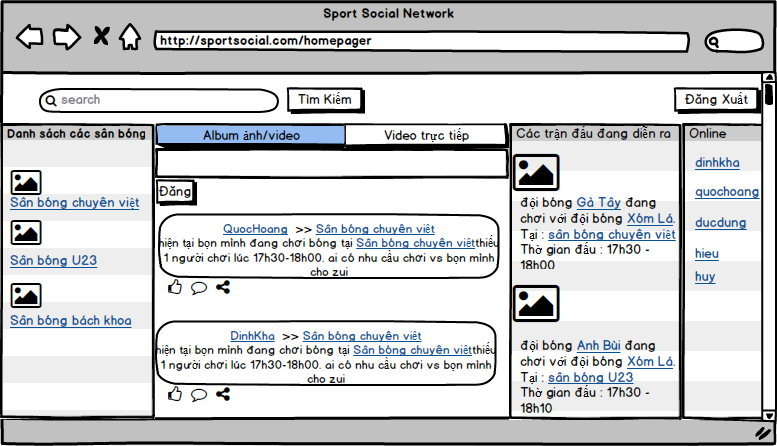
## Homepage

### Homepage for guest



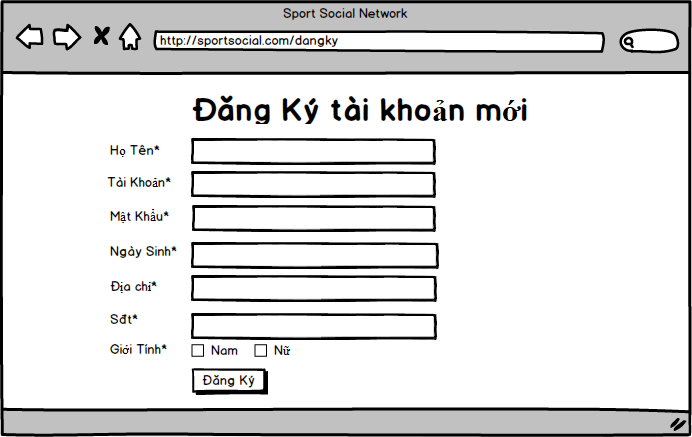
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Homepage | | | | | |
| **Description** | | Homepage for guest (unregister user) | | | | |
| **Screen Access** | | Homepage | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Đăng nhập | | Button |  | | Navigate to login | |
| Tìm kiếm | | Text Field & Button |  | | Search match by name | |
| Đăng Ký | | Button |  | | Navigate to sign up | |
| Các trận đấu đang diễn ra | | Label – String |  | | List matches is happening | |
| Danh sách các Sân bóng | | Label – String |  | | List all football pitch | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Login | | When “Đăng nhập” button is clicked, navigate to Login Page | | Login page is show | |  |
| Register | | When “Đăng Ký” is clicked, navigate to sign up page | | Sign up page is show | |  |
| Search | | When user type something in to input field and click search, it search matches/tournaments that match keyword | | List of results | |  |

### Homepage when logged in



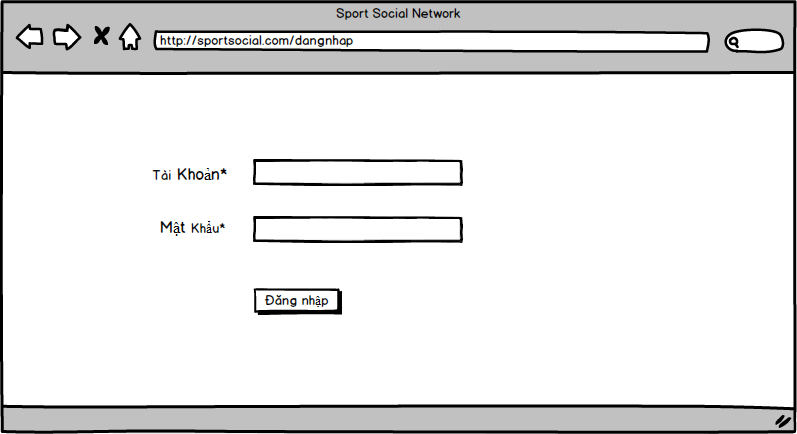
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Homepage | | | | | |
| **Description** | | Homepage when user is logged in | | | | |
| **Screen Access** | | Homepage | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Đăng Xuất | | Button |  | | Log out | |
| Tìm kiếm | | Text Field & Button |  | | Search matches/tournament | |
| Album ảnh/video | | Button |  | | Post images/videos | |
| Video trực tuyến | | Button |  | | Livestream video | |
| Đăng | | Button |  | | Action post | |
| Các trận đấu đang diễn ra | | Label – String |  | | List all matches is happening | |
| Danh sách các Sân bóng | | Label – String |  | | List all football pitch | |
| Online | | Label – String |  | | List your friends is online | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Log out | | Press “Đăng Xuất”, and navigate to homepage | | Homepage is show | |  |
| Search | | Search matches/tournament user typed in | | Show results | |  |
| Post iamges/videos | | When click on “Album ảnh/video”, user can browse images/videos on computer | | File pop-up show and user can choose file on computer | |  |
| Live stream video | | When click on “Video trực tuyến”, user can livestream video | | Live stream video | |  |
| Post a status | | When click on “Đăng”, content user typed in input field will be posted | | Status is show in their wall | |  |

## Sign up screen



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Register user - register | | | | | |
| **Description** | | Sign up | | | | |
| **Screen Access** | | Guest can sign up for website here | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Họ Tên | | Label - String |  | | Full name of user  This field is required | |
| Tài Khoản | | Text Field - String |  | | Account’s username  This field is required | |
| Mật khẩu | | Text Field - Password |  | | Password  This field is required | |
| Ngày sinh | | Text Field - Date |  | | User’s date of birth  This field is required | |
| Địa chỉ | | Text Field - String |  | | User’s address  This field is required | |
| Số điện thoại | | Text Field - String |  | | User’s phone number  This field is required | |
| Giới Tính | | checkbox |  | | Gender  This field is required | |
| Đăng Ký | | Button |  | | A button for submit | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Sign up | | When click on “Đăng ký”, all date user have input will be send to server to register | | Sign up successful and redirect to homepage | | When any required field is missing -> Alert: “Hãy điền đầy đủ thông tin”  When username is not unique -> Alert: “tài khoản này đã tồn tại”  When password length is less than 8 -> Alert: “Mật khẩu không hợp lệ, ít nhất 8 ký tự, xin mời nhập lại”  When phone number is wrong -> Alert: “Số điện thoại phải đúng định dạng hoặc đã tồn tại” |

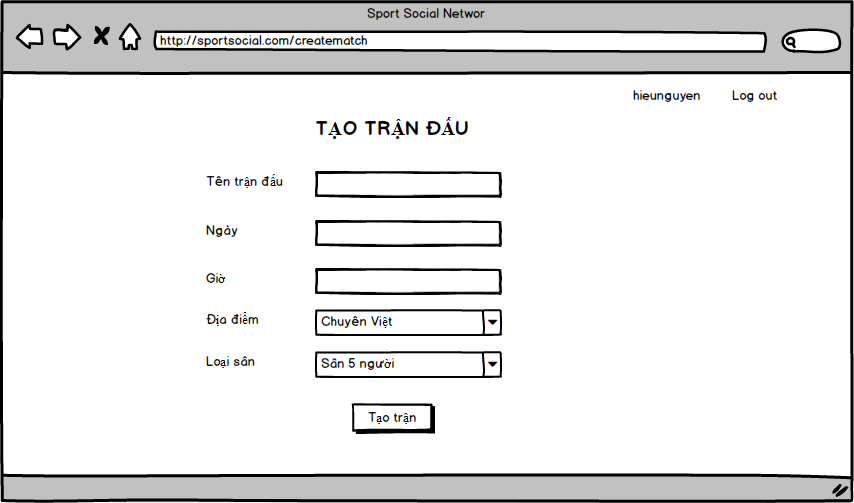
## Login screen



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Login user - login | | | | | |
| **Description** | | Screen fo user to login | | | | |
| **Screen Access** | | User input info and press login | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Tài Khoản | | Text Field - String |  | | Username of user  This field is required | |
| Mật khẩu | | Text Field - Password |  | | Password  This field is required | |
| Đăng Nhập | | Button |  | | Perform login | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Login | | When user input data and press “Đăng nhập”, data will be send to server and validate for login | | Login successful and redirect to homepage | | When any required field is missing -> Alert: “Hãy điền đầy đủ thông tin”  When usename doesn’t exist> Alert: “tài hoản không tồn tại”  When password is not correct -> Alert: “Mật khẩu của bạn không đúng” |

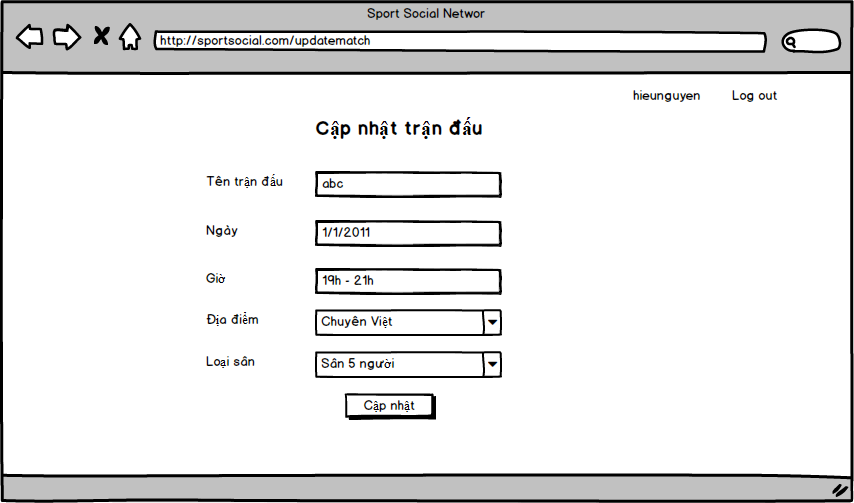
## Mange match

### Create match



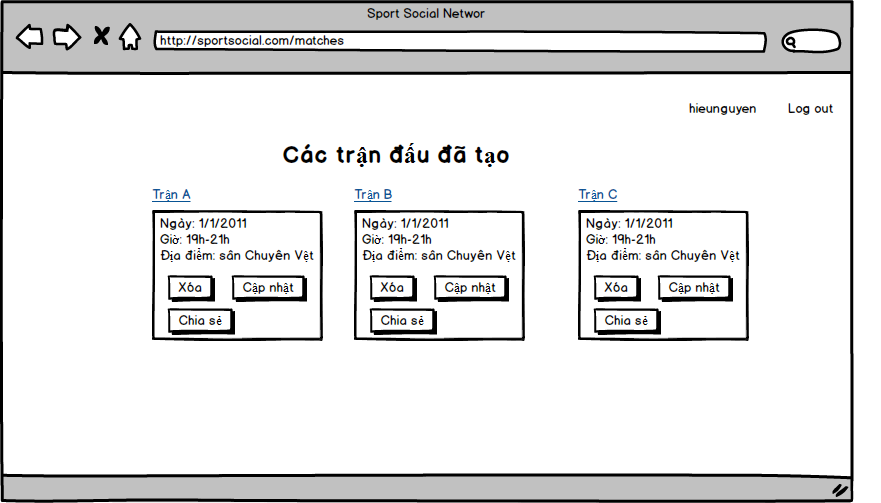
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| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage mathces – Create match | | | | |
| **Description** | | Allow user can create match | | | |
| **Screen Access** | | Press link “Create match” in navigation bar | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Tên trân đấu | | TextField – String (50) |  | Input match name | |
| Ngày | | Datetime |  | Input date | |
| Giờ | | TextField – String (30) |  | Input time | |
| Địa điểm | | Combo Box |  | Choose location | |
| Loại sân | | Combo Box |  | Choose minimum of number of players for each team | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Create match | | Add match to list of matches | | Display message “Tạo trận đấu thành công ” and redirect to list of matches | Show alerts “Không thể tạo trận đầu, mời nhập lại các thông tin chính xác”. |

### Update match



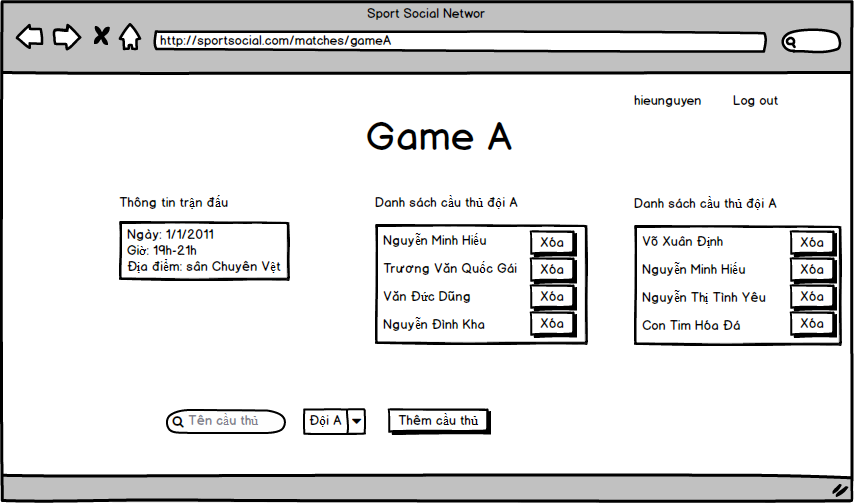
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage mathces – Update match | | | | |
| **Description** | | Allow user can update match | | | |
| **Screen Access** | | Press link “Create match” in navigation bar | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Tên trân đấu | | TextField – String (50) |  | Change “Tên trận đấu” field if user want to change this field | |
| Ngày | | Datetime |  | Change “ Ngày” field if user want to change this field | |
| Giờ | | TextField – String (30) |  | Change “ Giờ” field if user want to change this field | |
| Địa điểm | | Combo Box |  | Change “ Địa điểm” field if user want to change this field | |
| Loại sân | | Combo Box |  | Change “ Loại sân” field if user want to change this field | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Update match | | Add match to list of matches | | Display message “Cập nhật trận đấu thành công” and redirect to list of matches page | Show alerts “Cập nhật thất bại, vui lòng kiểm tra lại”. |

### List matches



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen** | Manage match – List created matches | | | |
| **Description** | | User who created match can delete/update/share information matches | | |
| **Screen Access** | | Press link “List created matches” in navigation bar | | |
| **Screen Actions** | | | | |
| **Action Name** | | **Description** | **Success** | **Failure** |
| Delete match | | User click on “Xóa”, that match will be deleted. Admin can delete any matches, but user can only delete match which is they created | Display message “Đã xóa trận đấu thành công” | Show alert “Không thể xóa trận đấu, vui lòng kiểm tra lại” |
| Update match | | Update the detail of match | Navigate to update page |  |
| Share match | | User shares information of match onto the home page, and user can retrieve a link of match to share via facebook, gmail,… | Share to homepage, receive link of match |  |

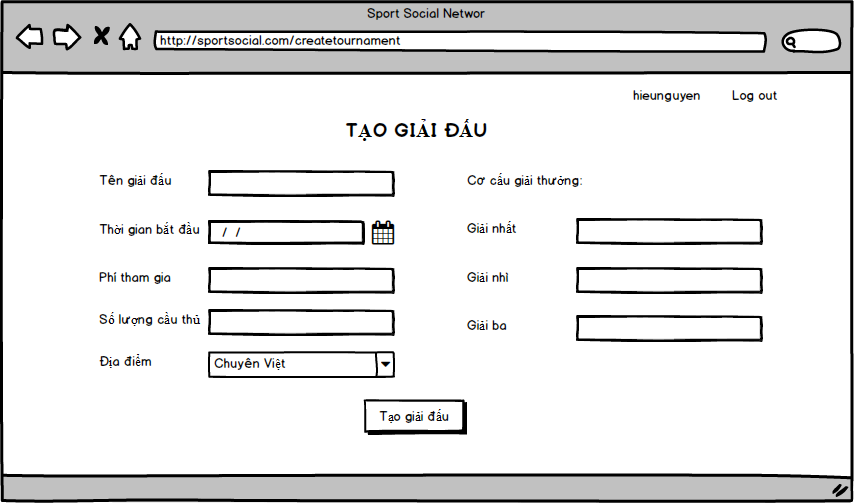
### Show information of match



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage matches – Match Information | | | | |
| **Description** | | Allow user can view information of match | | | |
| **Screen Access** | | Press match name in “List matches” screen | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Thông tin trận đấu | | Text | Match information: date, time, place | Display match infomation | |
| Danh sách cầu thủ đội A | | List | List of player in team A | List of player in team A | |
| Danh sách cầu thủ đội B | | List | List of player in team B | List of player in team B | |
| Thêm cầu thủ | | Button |  | Add player to team of match | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Add player | | User input player name, select team then click “Thêm cầu thủ” will add player to the team of matches | | Show message “Thêm cầu thủ thành công” | Show alerts “Thêm cầu thủ không thành công” |
| Delete player from team | | Delete player from the team | | Show alerts “Xóa cầu thủ thành công” | Show alerts “Xóa không thành công” |

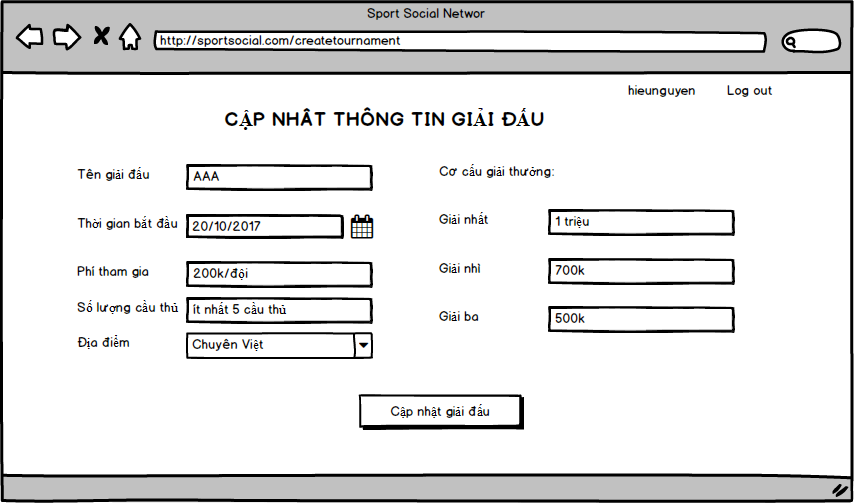
## Manage tournament

### Create tournament



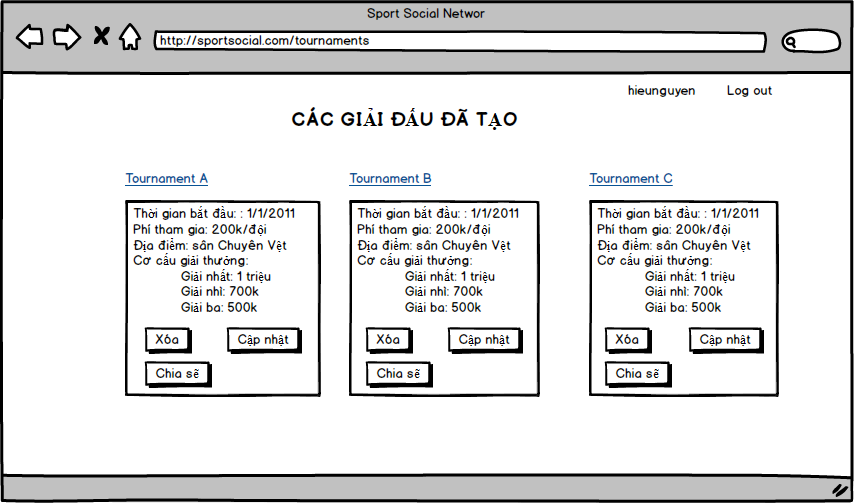
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage tournament – Create tournament | | | | |
| **Description** | | Allow user can create tournament | | | |
| **Screen Access** | | Press link “Create tournament” in navigation bar | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Tên giải đấu | | TextField – String (50) |  | Input tournament name | |
| Thời gian bắt đầu | | Date time |  | Choose the time that tournament start | |
| Phí tham gia | | TextField – String (30) |  | Input the fee of each team to join tournament | |
| Số lượng cầu thủ | | TextField –String(100) |  | Choose minimum of number of player for each team | |
| Địa điểm | | Combo Box |  | Choose location | |
| Giải nhất | | TextField – String (100) |  | Input prize for best team | |
| Giải nhì | | TextField – String (100) |  | Input prize for second team | |
| Giải ba | | TextField – String (100) |  | Input prize for third team | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Create tournament | | Create tournament and add tournament to list | | Display message “Tạo giải đấu thành công” | Display message “Tạo giải đấu thất bại, vui lòng kiểm tra lại thông tin”. |

### Update tournament



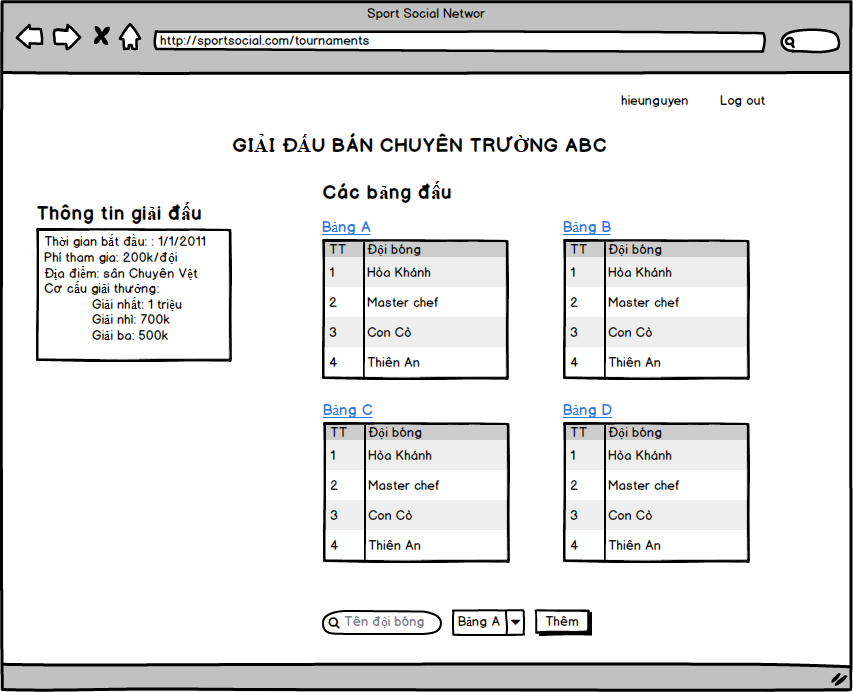
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| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage tournament – Update tournament | | | | |
| **Description** | | Allow user can create tournament | | | |
| **Screen Access** | | Press link “Update tournament” in navigation bar | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Tên giải đấu | | TextField – String (50) |  | Change “Tên giải đấu” field if user want to change this field | |
| Thời gian bắt đầu | | Date time |  | Change “Thời gian bắt đầu” field if user want to change this field | |
| Phí tham gia | | TextField – String (30) |  | Change “Phí tham gia” field if user want to change this field | |
| Số lượng cầu thủ | | TextField –String(100) |  | Change “Số lượng cầu thủ” field if user want to change this field | |
| Địa điểm | | Combo Box |  | Change “Địa điểm” field if user want to change this field | |
| Giải nhất | | TextField – String (100) |  | Change “Giải nhất” field if user want to change this field | |
| Giải nhì | | TextField – String (100) |  | Change “Giải nhì” field if user want to change this field | |
| Giải ba | | TextField – String (100) |  | Change “Giải ba” field if user want to change this field | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Update tournament | | Update information of the tournament | | Display message “Cập nhật thành công” | Display message “Cập nhật lỗi, vui lòng kiểm tra lại thông tin”. |

### List tournament



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen** | Manage tournament – Create tournament | | | |
| **Description** | | Allow user can create tournament | | |
| **Screen Access** | | Press link “List tournament” in navigation bar | | |
| **Screen Actions** | | | | |
| **Action Name** | | **Description** | **Success** | **Failure** |
| Delete | | Delete tournament from the list of tournament | Display message “Xóa giải đấu thành công” |  |
| Update | | Update information of the tournament | Navigate to Update tournament page |  |
| Share | | User shares information of match onto the home page, or share link via facebook,… |  |  |

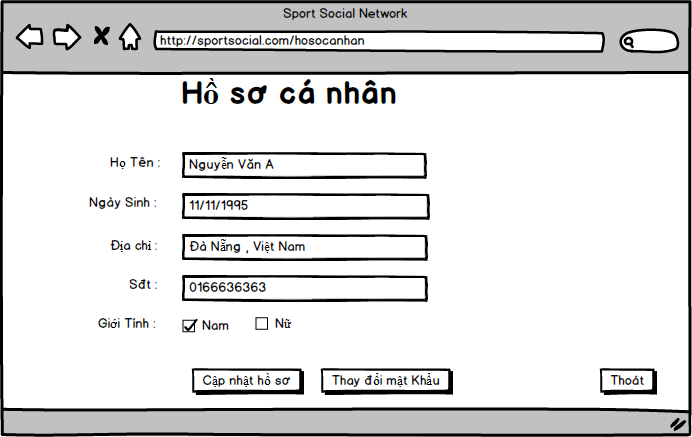
### Show information of tournament



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Manage tournament – Show the tournament | | | | |
| **Description** | | Allow user can view information of the tournament | | | |
| **Screen Access** | | Press Tournament name in List tournament | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Bảng A | | url |  | In order to show detail of group A | |
| Bảng B | | url |  | In order to show detail of group B | |
| Bảng C | | url |  | In order to show detail of group C | |
| Bảng D | | url |  | In order to show detail of group D | |
| Tên đội bóng | | TextField –String(100) |  | Input team name for search | |
| Bảng | | Combo box |  | Choose group for add the new team | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Add | | Add the team to the group in the tournament | | Display message “Thêm đội thành công” | Display message “Thêm đội thất bại” |

## User profile management

### Update Profile



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | User profile management | | | | | |
| **Description** | | The page show user profile, allow to update user profile | | | | |
| **Screen Access** | | Access url /users/{username} or click username at top bar | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Họ Tên | | String(50) | full\_name from Database | | Full name of user | |
| Ngày Sinh | | String(10) – format(dd/mm/yyyy) | birthday from Database | | user birthday | |
| Địa Chỉ | | String(255) | address from Database | | user address | |
| Sđt | | Number | phone\_number from Database | | User phone number | |
| Giới tính | | check box | gender from Database | | If gender equals 1 then “Nam” is checked, otherwise “Nữ” is checked | |
| Cập nhật hồ sơ | | Button |  | | Update user profile when the profile form had changes | |
| Thay đồi mật khẩu | | Button |  | | Go to page change user password | |
| Thoát | | Button |  | | Go to home page | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Update Profile | | After changes at least 1 input of user profile form, click button “Cập nhật hồ sơ” to request change user profile | | Notify update success | | - notify invalid format when validate fail  - notify update fail when get internal server error  - notify can not update user right now |
| Change password | | Click button “Thay đổi mật khẩu” to open page changes user password | | Open the change password page | |  |
| Exit | | Undo changes all of input user profile form has not updated yet and go to home page | | Go to home page | |  |

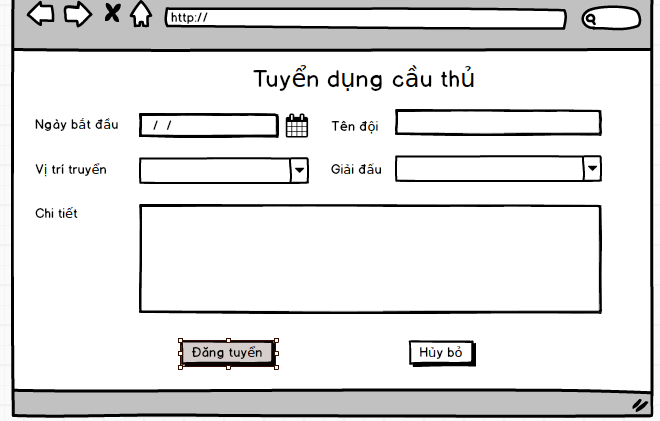
### Change password



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | update user password | | | | | |
| **Description** | | update user password | | | | |
| **Screen Access** | | From user profile screen, click button “Thay đổi mật khẩu” | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Mật khẩu mới | | String(50) |  | | The new password that user want to update | |
| Xác nhận lại mật khẩu | | String(50) |  | | the password confirmation | |
| Chập nhận | | Button |  | | Accept change password | |
| Hủy | | Button |  | | Cancel update password | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Change password | | After fill in field “Mật khẩu mới” and “xác nhận lại mật khẩu” with the same text, click button “Chấp nhận” | | Notify update password success and go to home user profile page | | - notify invalid password when validate fail  - notify update fail when get internal server error  - notify can not update password right now |
| Cancel | | Cancel update password | | Go to user profile page | |  |

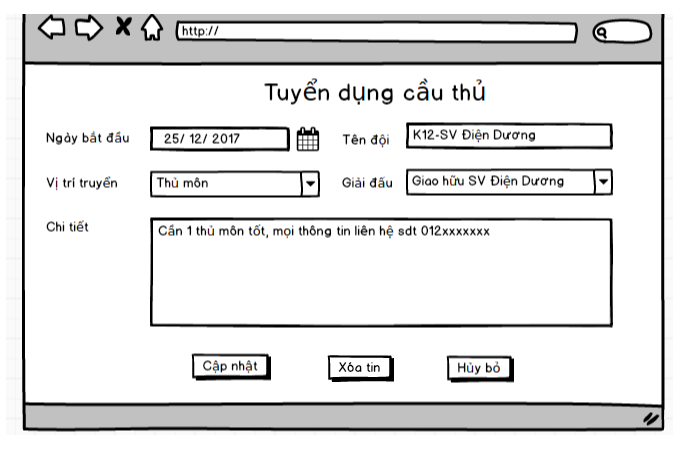
## Talent wanted

### Create talent wanted news



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Create talent wanted | | | | | |
| **Description** | | Talent wanted for a team | | | | |
| **Screen Access** | |  | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Ngày bắt đầu | | String(10) |  | | The day start matches | |
| Tên Đội | | String(255) |  | | Team name | |
| Vị trí tuyển | | String(255) |  | | Position wanted | |
| Giải đấu | | String(255) |  | | Tournament Name | |
| Chi tiết | | text |  | | Description, content of the talent wanted | |
| Đăng Tuyển | | Button |  | | Public the talent wanted | |
| Hủy bỏ | | Button |  | | Cancel create talent wanted and go to home page | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Create new | | After fill in all input form and click button “Đăng Tuyển”. | | Notify create talent wanted success | | - notify invalid format when validate fail  - notify update fail when get internal server error  - notify can not create the post right now |
| Hủy bỏ | | Cancel create talent wanted and go to home page | | Go to home page | |  |

### Delete/update talent wanted news



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | update talent wanted | | | | | |
| **Description** | | update talent wanted | | | | |
| **Screen Access** | |  | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Ngày bắt đầu | | String(10) | start\_at from DB | | The day start matches | |
| Tên Đội | | String(255) | team\_name from DB | | Team name | |
| Vị trí tuyển | | String(255) | Position from DB | | Position wanted | |
| Giải đấu | | String(255) | tournament\_name from DB | | Tournament Name | |
| Chi tiết | | text | Description from DB | | Description, content of the talent wanted | |
| Cập nhật | | Button |  | | Accept the changes and public the talent wanted | |
| Xóa tin | | Button |  | | Delete the talent wanted post | |
| Hủy bỏ | | Button |  | | Undo changes, cancel update talent wanted and go to home page | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Update | | After changes at least 1 field of the form, click button “Cập nhật”. | | Notify update success and go to hom page | | - notify invalid input format when validate fail  - notify update fail when get internal server error  - notify can not update right now |
| Delete | | Click button “Xóa tin” | | Notify delete post success | | - notify delete fail when get internal server error |
| Hủy bỏ | | Cancel update talent wanted | | Go to home page | |  |

# Other requirements

## Usability requirements

Very important for the product will be the usability, can be connected and display in any devices with a web browser.

A secondary aspect is the look & feel of the application

## Security requirement

Web API part must be secure and have fully role management.

Admin can manage all matches/tournaments. User can only manage matches/tournaments that they created