# App Development & Modeling

**BSc** in Applied Computing



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http://www.wit.ie

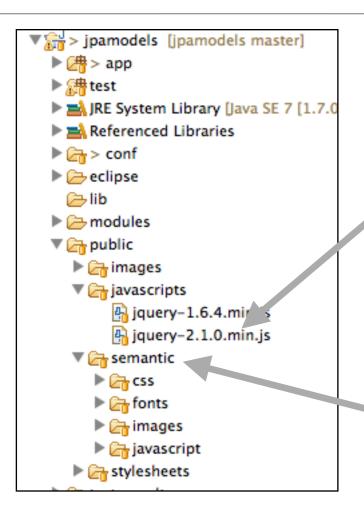
http://elearning.wit.ie

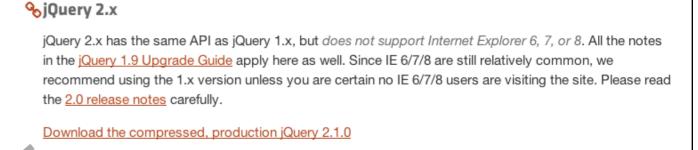






## Semantic UI & JQuery

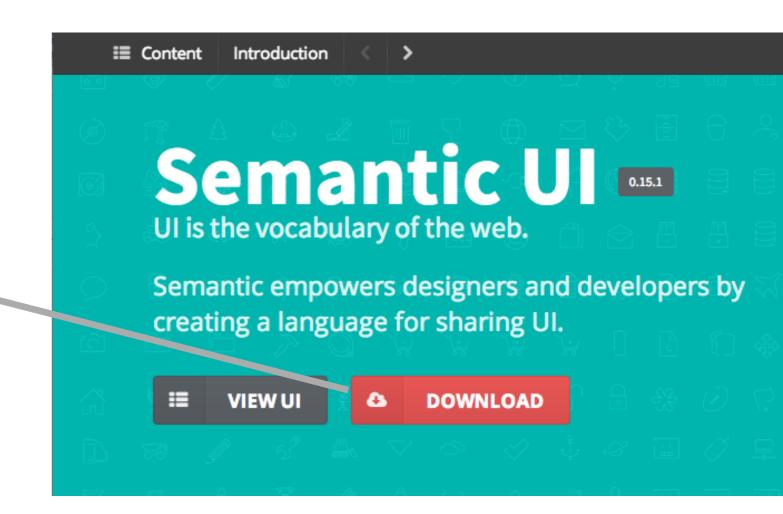




Download the uncompressed, development jQuery 2.1.0

Download the map file for jQuery 2.1.0

jQuery 2.1.0 release notes

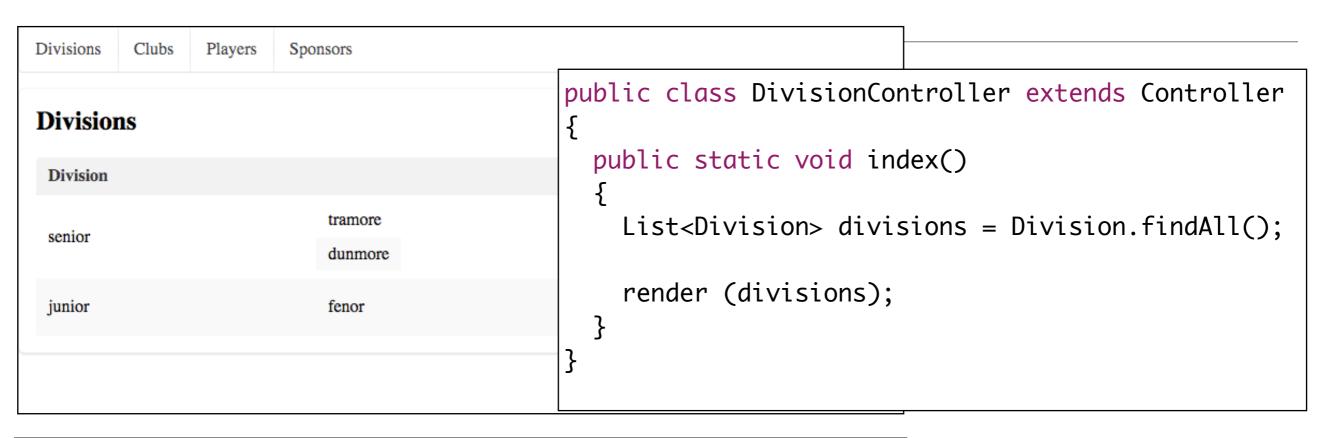


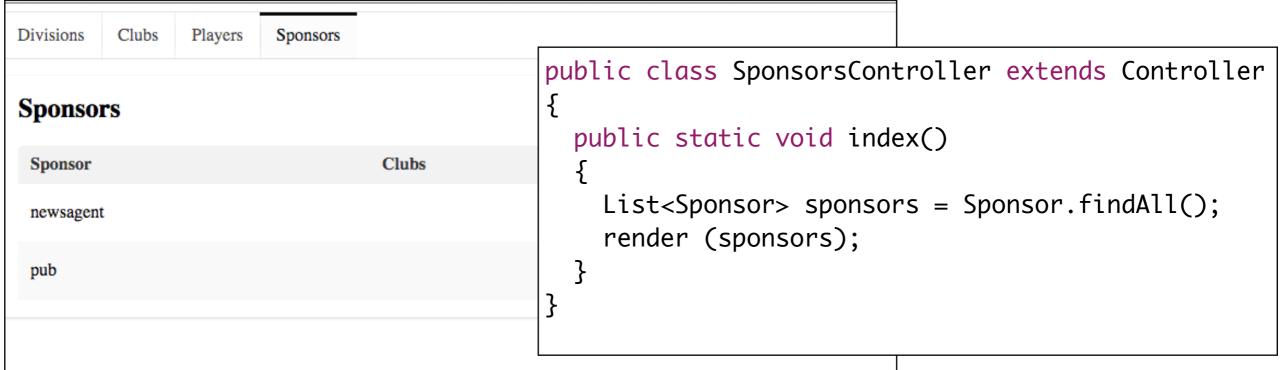
## Alternatively -

Just link to the CDN based resources in main.html

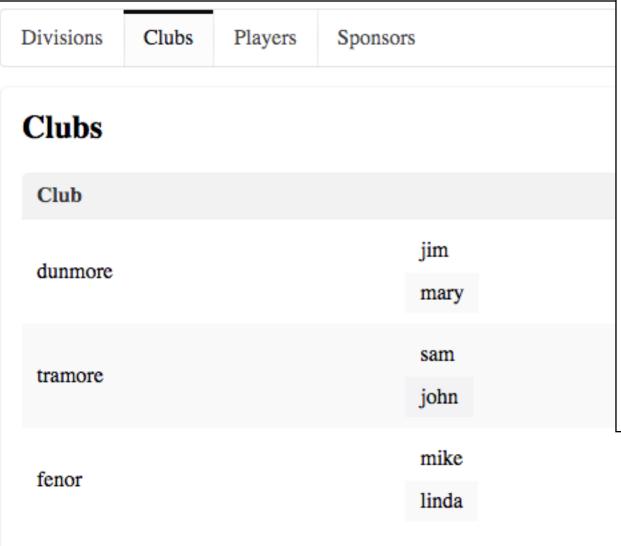
```
<!DOCTYPE html>
<html>
 <head>
   <title>#{get 'title' /}</title>
   <meta charset="${_response_encoding}">
   <link rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.4/semantic.min.css"type="text/css">
    <script type="text/javascript" src="http://cdnjs.cloudflare.com/ajax/libs/jquery/2.0.3/jquery.min.js"></script>
    <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.4/semantic.min.js"></script>
   <link rel="stylesheet" media="screen" href="@{'/public/stylesheets/main.css'}">
   #{get 'moreStyles' /}
   <link rel="shortcut icon" type="image/png" href="@{'/public/images/favicon.png'}">
  </head>
 <body>
   #{doLayout /}
    #{get 'moreScripts' /}
</body>
</html>
```

# Division & Sponsors Controllers



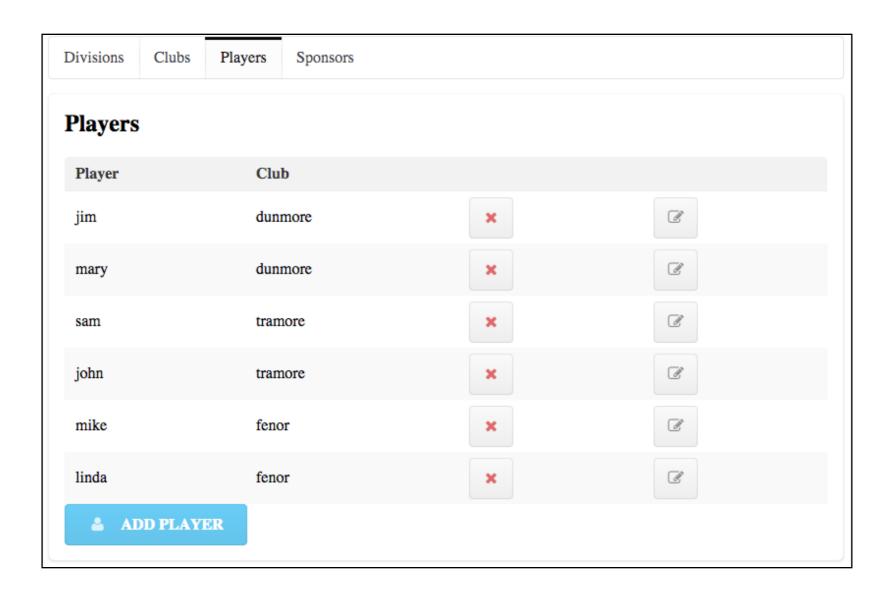


# Clubs Controller (2)



```
public class ClubsController extends Controller
 public static void index()
   List<Club> clubs = Club.findAll();
    render (clubs);
 public static void delete(Long id)
   Club club = Club.findById(id);
   if (club != null)
      Logger.info("Trying to delete " + club.name);
      List<Division> divisions = Division.findAll();
      for (Division division : divisions)
        if (division.members.contains(club))
          division.members.remove(club);
          division.save();
          Logger.info ("removing club from division");
      club.delete();
   index();
```

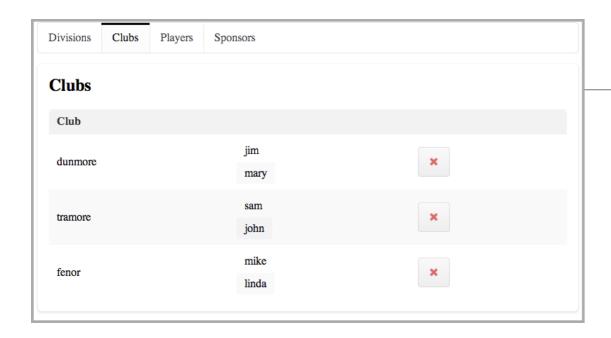
# Players Controller (1)

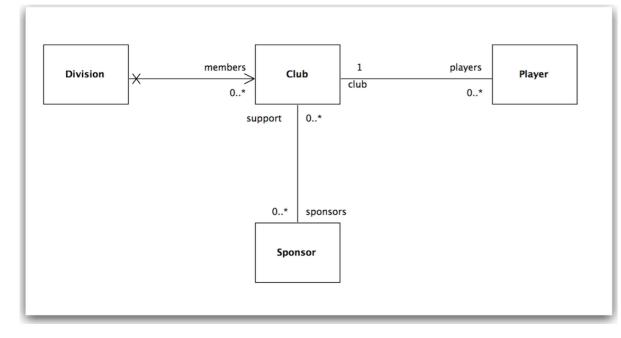


#### Players

```
public class PlayersController extends Controller
  public static void index()
   List<Player> players = Player.findAll();
    render (players);
  public static void delete(Long id)
    Player player = Player.findById(id);
   if (player != null)
      player.club.removePlayer(player);
      player.club.save();
      player.delete();
    index();
  public static void newPlayer()
    List<Club> clubs = Club.findAll();
    render(clubs);
  public static void createPlayer(String name, String club)
    Logger.info("Name: " + name + ": Club: " + club);
    Player player = new Player (name);
    Club theClub = Club.findByName(club);
    if (theClub != null)
      theClub.addPlayer(player);
      theClub.save();
    index();
```

#### Delete Club





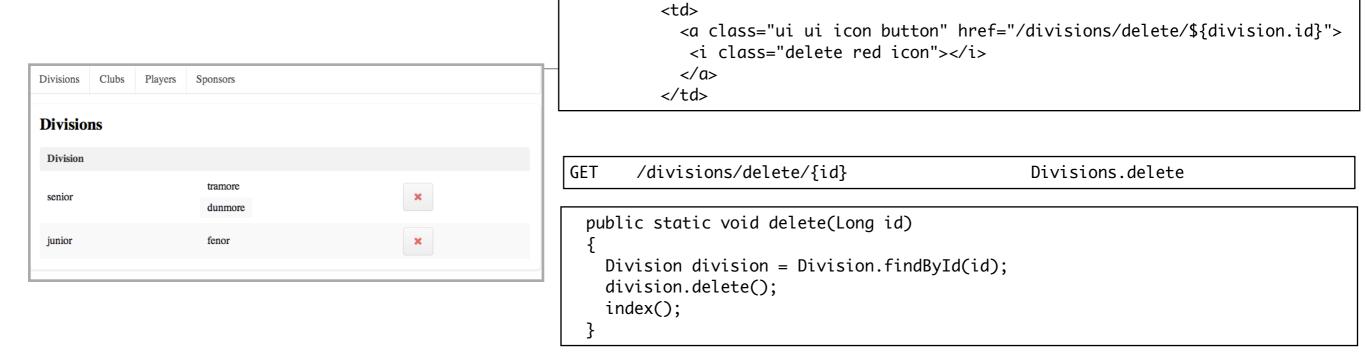
```
<a class="ui ui icon button" href="/clubs/delete/${club.id}">
        <i class="delete red icon"></i>
        </a>

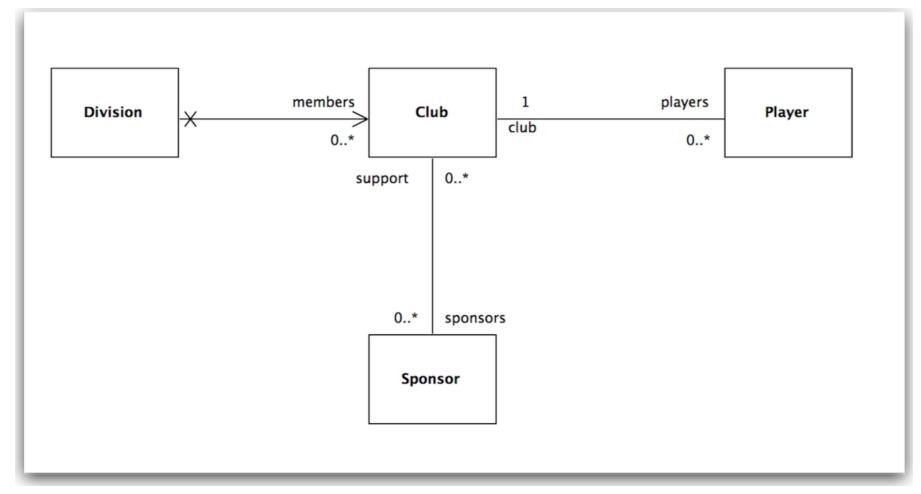
</d>
```

```
GET /clubs/delete/{id} Clubs.delete
```

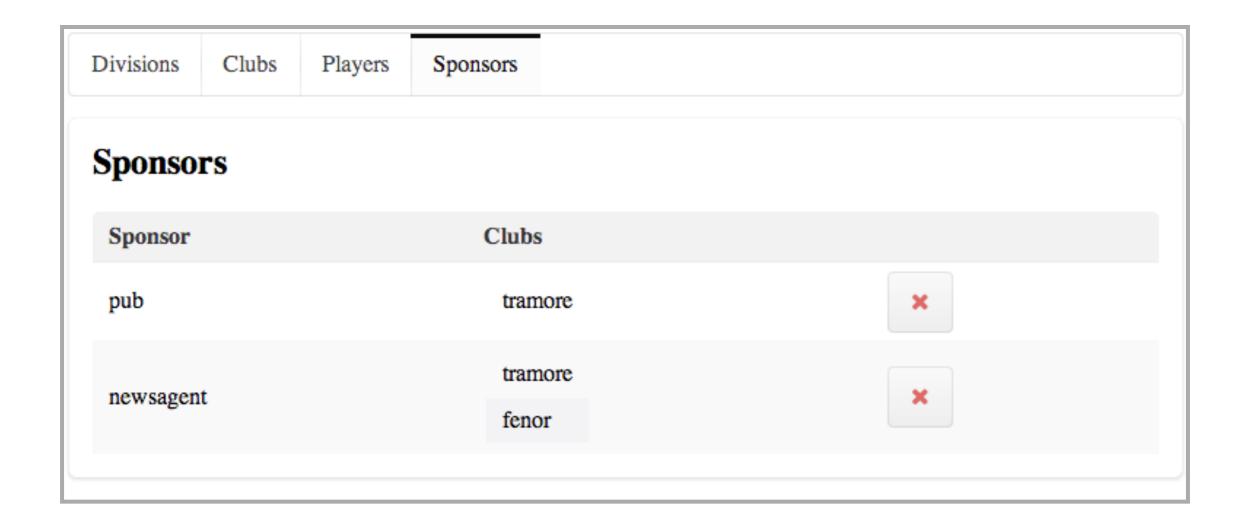
```
public static void delete(Long id)
{
   Club club = Club.findById(id);
   if (club != null)
   {
      Logger.info("Trying to delete " + club.name);
      List<Division> divisions = Division.findAll();
      for (Division division : divisions)
      {
        if (division.members.contains(club))
        {
            division.members.remove(club);
            division.save();
            Logger.info ("removing club from division");
        }
      }
      club.delete();
   }
   index();
}
```

#### Delete Division

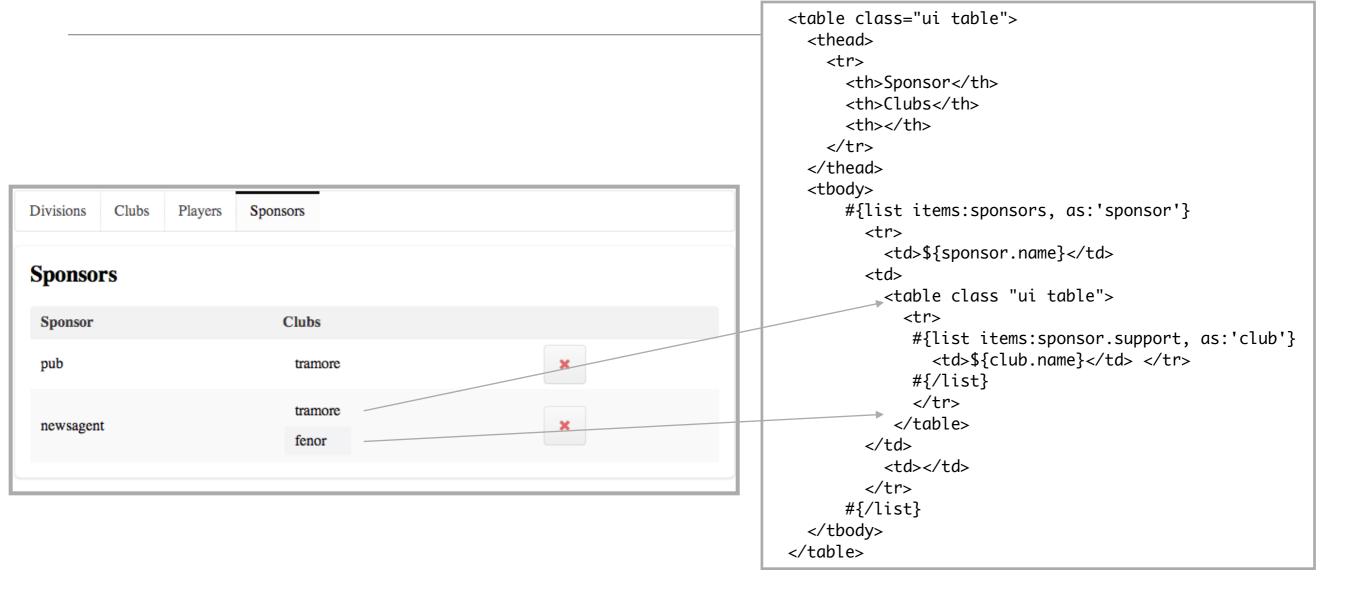




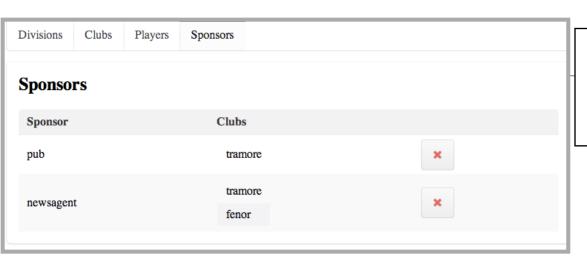
# Show Sponsors Clubs



#### Table inside a table



# Delete Sponsors



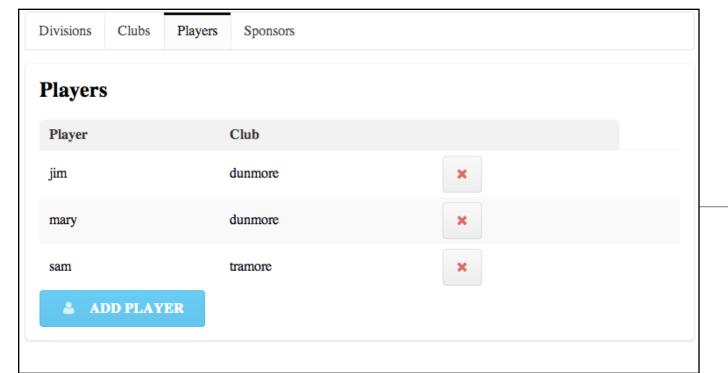
```
<a class="ui ui icon button" href="/sponsors/delete/${sponsor.id}"> <i class="delete red icon"></i> </a>
```

GET /sponsors/delete/{id} Sponsors.delete

```
public static void delete(Long id)
{
    Sponsor sponsor = Sponsor.findById(id);

    for (Club club : sponsor.support)
    {
        club.sponsors.remove(sponsor);
        club.save();
    }

    sponsor.delete();
    index();
}
```



### Create Player

```
GET /players/addplayer Players.addPlayer
POST /players/newplayer Players.newPlayer
```

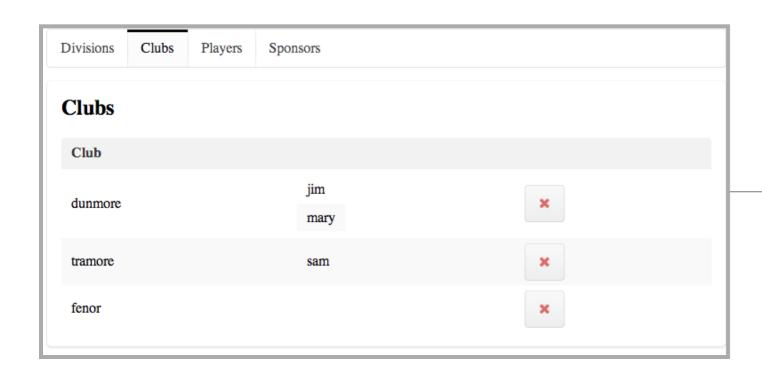
```
public static void addPlayer()
{
   render();
}

public static void newPlayer(String name)
{
   Player player = new Player (name);
   player.save();
   index();
}
```

```
Player Name

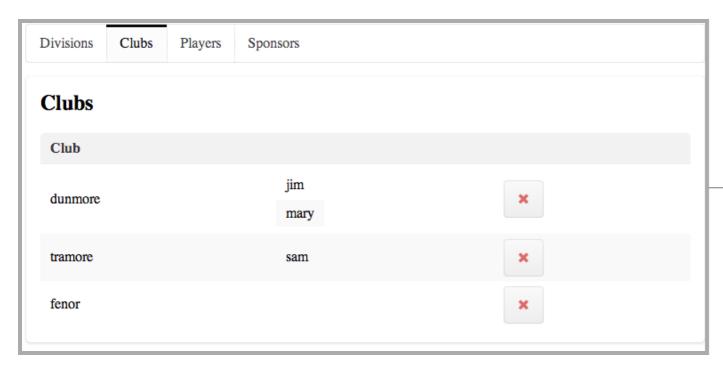
james

ADD
```



# Null Deference error in Templates

- If the player is not in a club
  - then null type
     violation error here
  - Attempt to dereference null reference - there is no club member in player



# Null Safe Operator in Templates

```
#{list items:players, as:'player'}

$\langle \text{td>} \text{player.name} \langle \text{td>}

\text{td>} \text{player.club?.name} \langle \text{td>}

\text{td}

\text{td}
```

- .? is a 'null-safe' operator
- i.e. if there is a club, retrieve its name member, if not, then dont.



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