## Mobile Application Development



Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics Waterford Institute of Technology

http://www.wit.ie

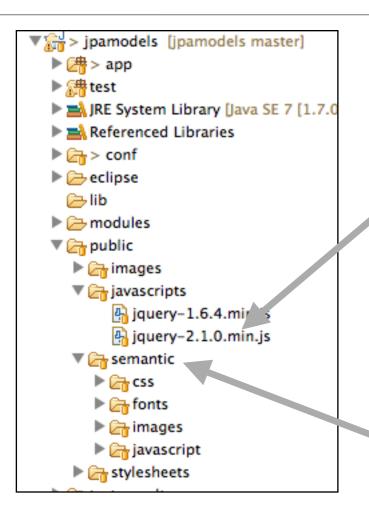
http://elearning.wit.ie







## Semantic UI & JQuery



#### %jQuery 2.x

jQuery 2.x has the same API as jQuery 1.x, but does not support Internet Explorer 6, 7, or 8. All the notes in the jQuery 1.9 Upgrade Guide apply here as well. Since IE 6/7/8 are still relatively common, we recommend using the 1.x version unless you are certain no IE 6/7/8 users are visiting the site. Please read the 2.0 release notes carefully.

Download the compressed, production jQuery 2.1.0

Download the uncompressed, development jQuery 2.1.0

Download the map file for jQuery 2.1.0

iQuery 2.1.0 release notes

Semantic UI

User Interface is the language of the web

**Get Started** 

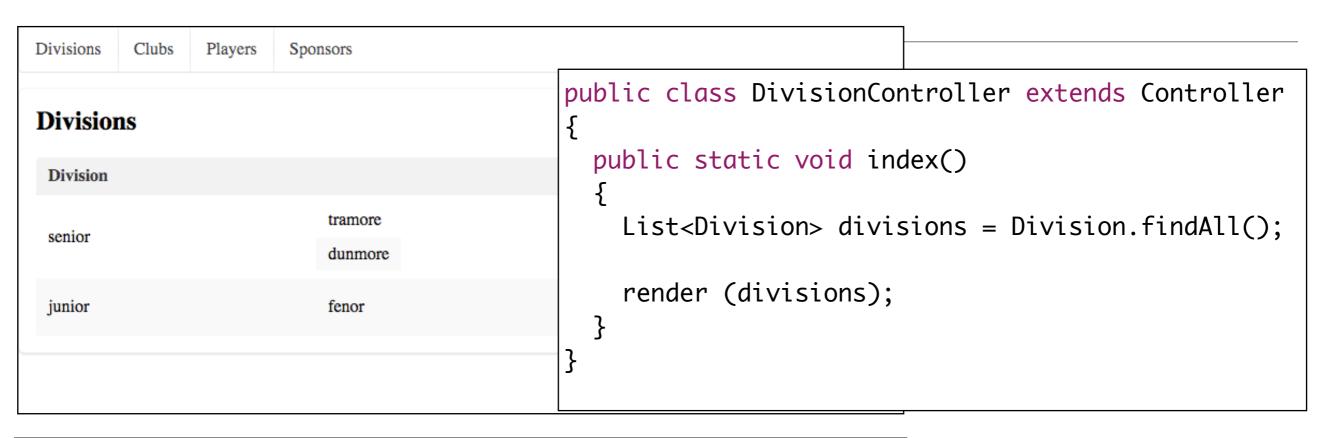
What's New in 2.1

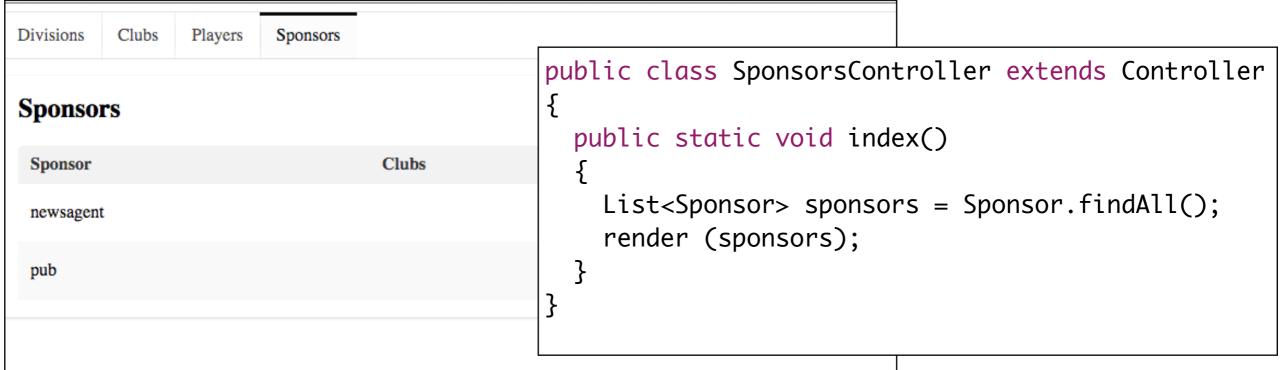
## Alternatively -

Just link to the CDN based resources in main.html

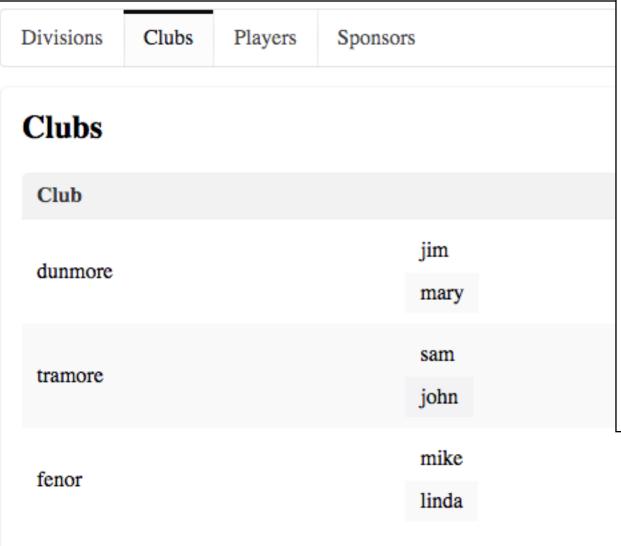
```
<!DOCTYPE html>
<html>
 <head>
   <title>#{get 'title' /}</title>
   <meta charset="${_response_encoding}">
   <link rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.4/semantic.min.css"type="text/css">
    <script type="text/javascript" src="http://cdnjs.cloudflare.com/ajax/libs/jquery/2.0.3/jquery.min.js"></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



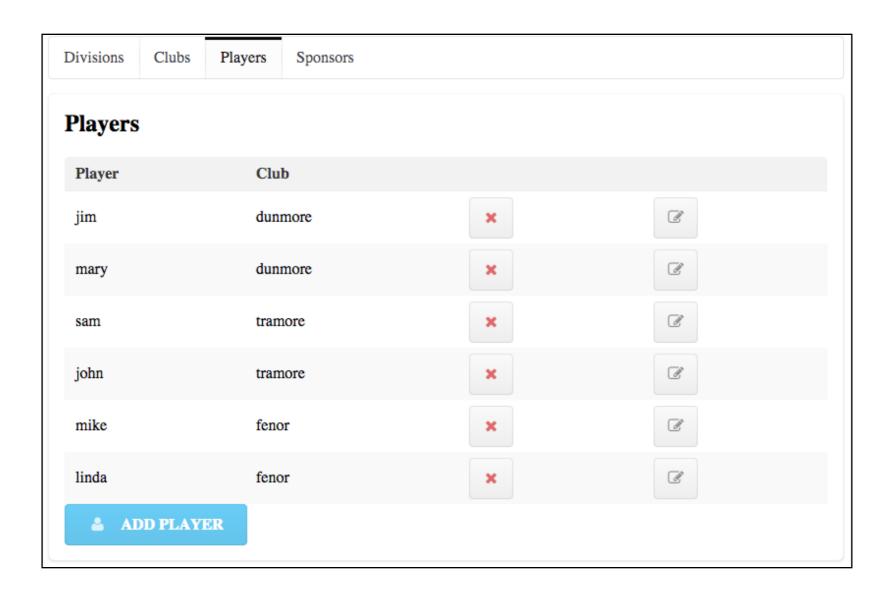


## Clubs Controller (2)



```
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();
```

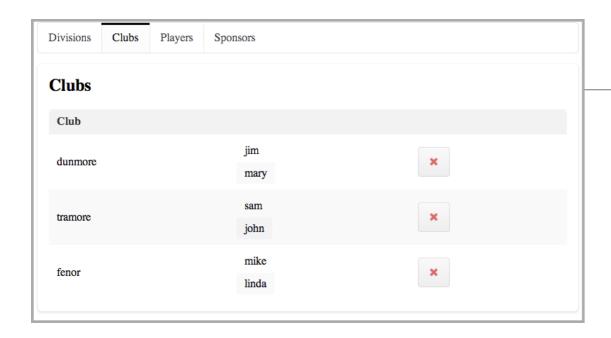
## Players Controller (1)

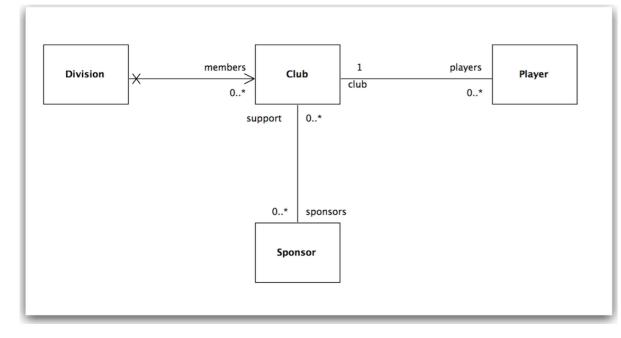


### Players

```
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





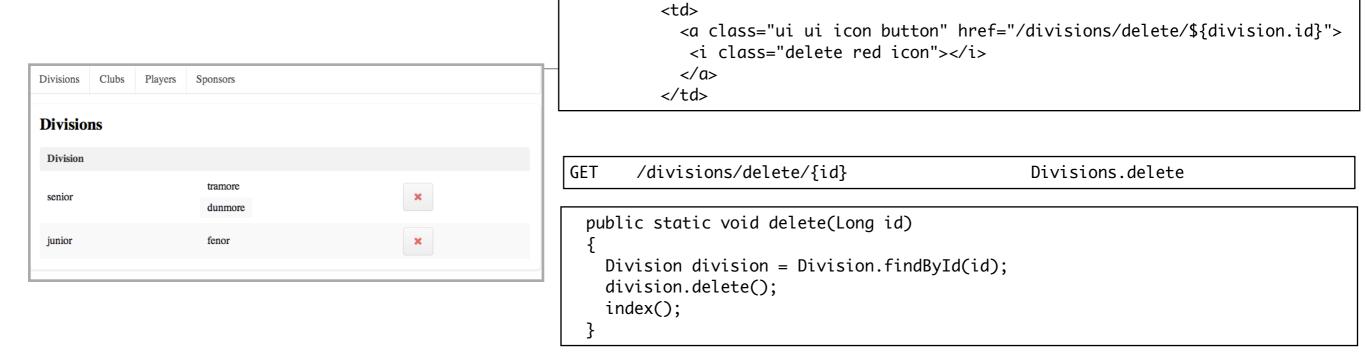
```
<a class="ui ui icon button" href="/clubs/delete/${club.id}">
        <i class="delete red icon"></i>
        </a>

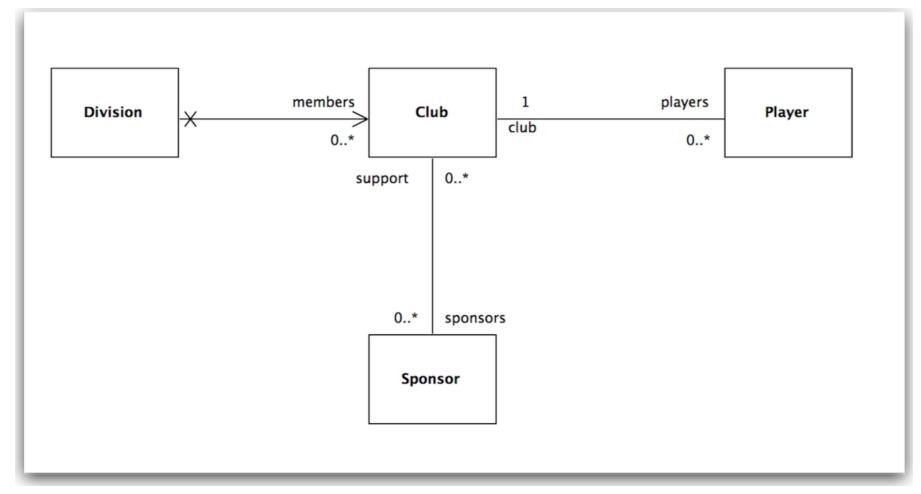
</d>
```

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

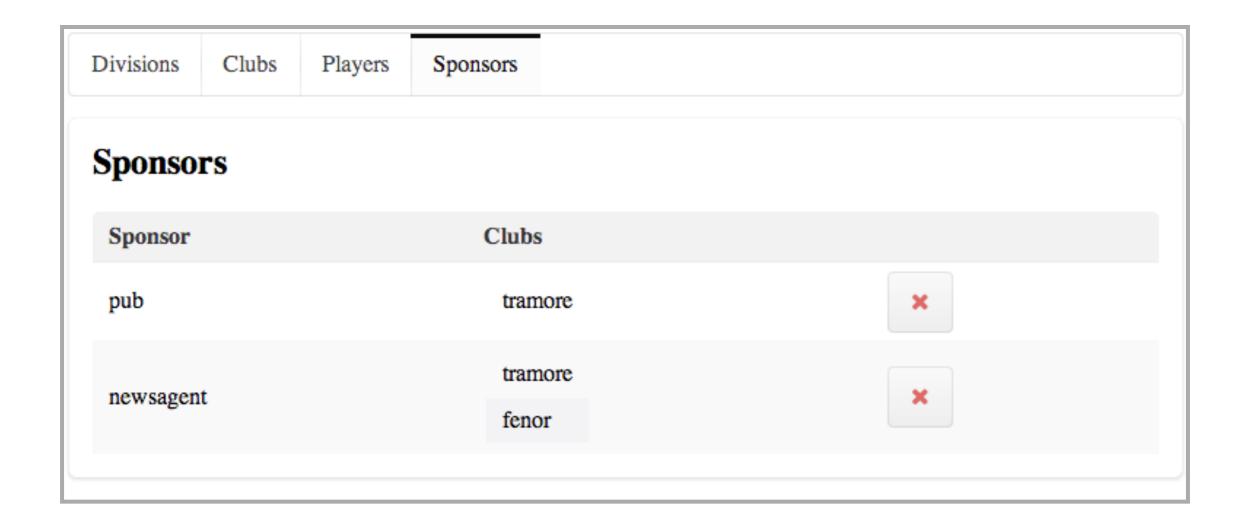
```
public static void delete(Long id)
{
   Club club = Club.findById(id);
   if (club != null)
   {
      Logger.info("Trying to delete " + club.name);
      List<Division> divisions = Division.findAll();
      for (Division division : divisions)
      {
        if (division.members.contains(club))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

#### Delete Division

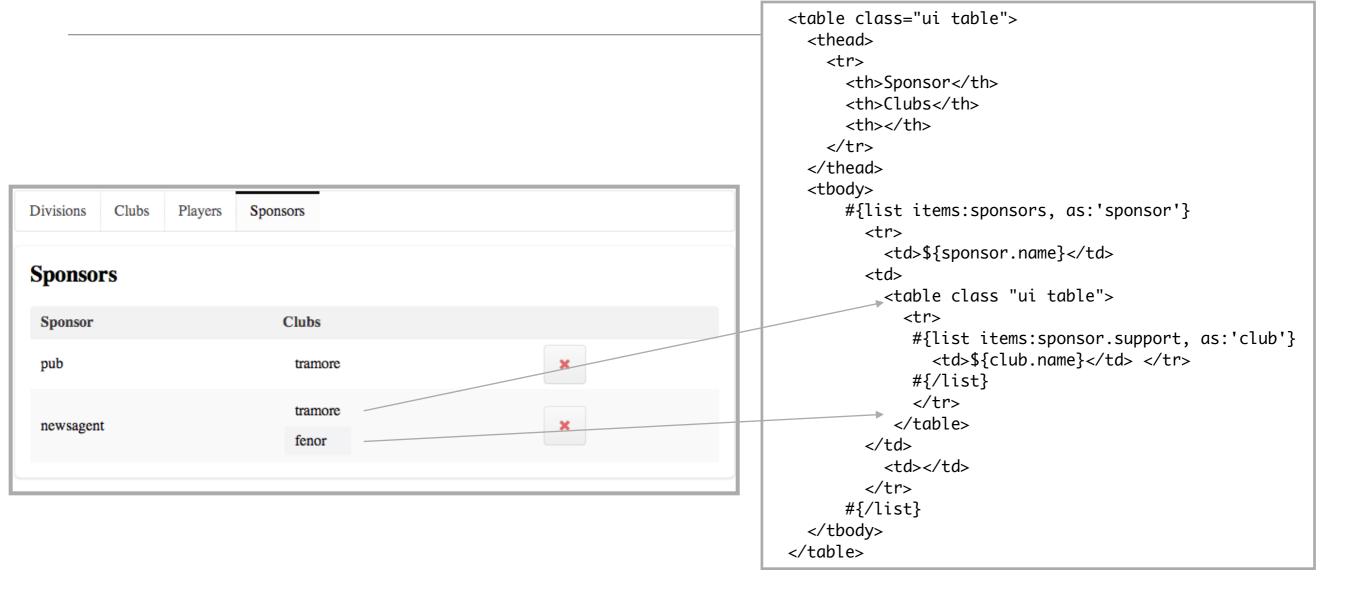




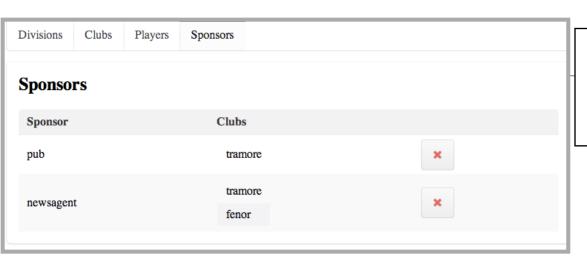
## Show Sponsors Clubs



#### Table inside a table



## Delete Sponsors



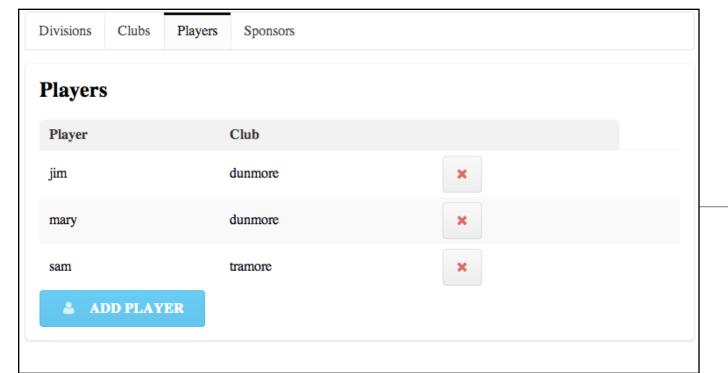
```
<a class="ui ui icon button" href="/sponsors/delete/${sponsor.id}"> <i class="delete red icon"></i> </a>
```

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
```

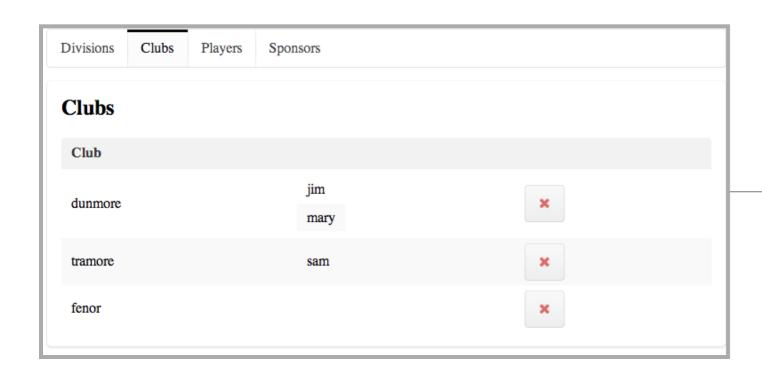
```
public static void addPlayer()
{
   render();
}

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

```
Player Name

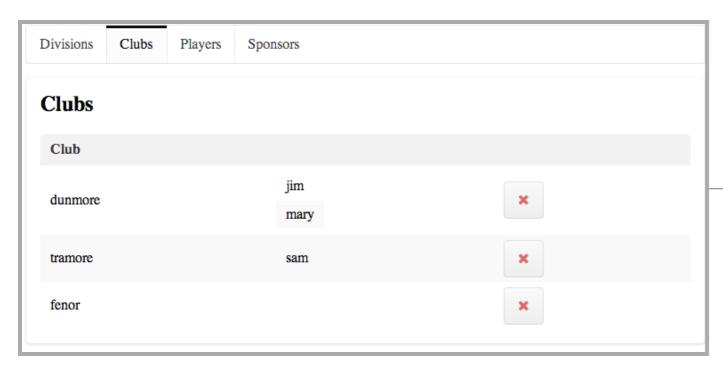
james

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

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



Except where otherwise noted, this content is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

For more information, please see http://creativecommons.org/licenses/by-nc/3.0/



