

App Development & Modeling

BSc in Applied Computing

Produced
by

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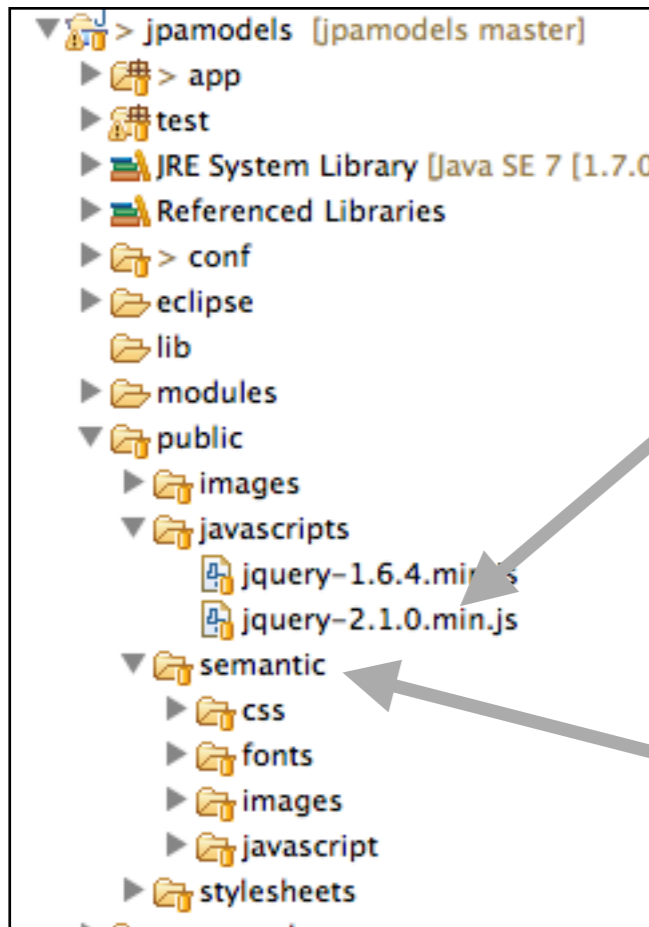


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UI

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](#)

[jQuery 2.1.0 release notes](#)



Division & Sponsors Controllers

Divisions	Clubs	Players	Sponsors
Divisions			
Division			
senior		tramore	dunmore
junior		fenor	

```
public class DivisionController extends Controller
{
    public static void index()
    {
        List<Division> divisions = Division.findAll();
        render (divisions);
    }
}
```

Divisions	Clubs	Players	Sponsors
Sponsors			
Sponsor		Clubs	
newsagent			
pub			

```
public class SponsorsController extends Controller
{
    public static void index()
    {
        List<Sponsor> sponsors = Sponsor.findAll();
        render (sponsors);
    }
}
```

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();
    }
}
```

Divisions Clubs Players Sponsors

Clubs

Club

dunmore

jim

mary

tramore

sam

john














fenor

mike

linda



Players Controller (1)

Divisions	Clubs	Players	Sponsors
Players			
Player	Club		
jim	dunmore		
mary	dunmore		
sam	tramore		
john	tramore		
mike	fenor		
linda	fenor		
 ADD PLAYER			

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();
    }
}
```

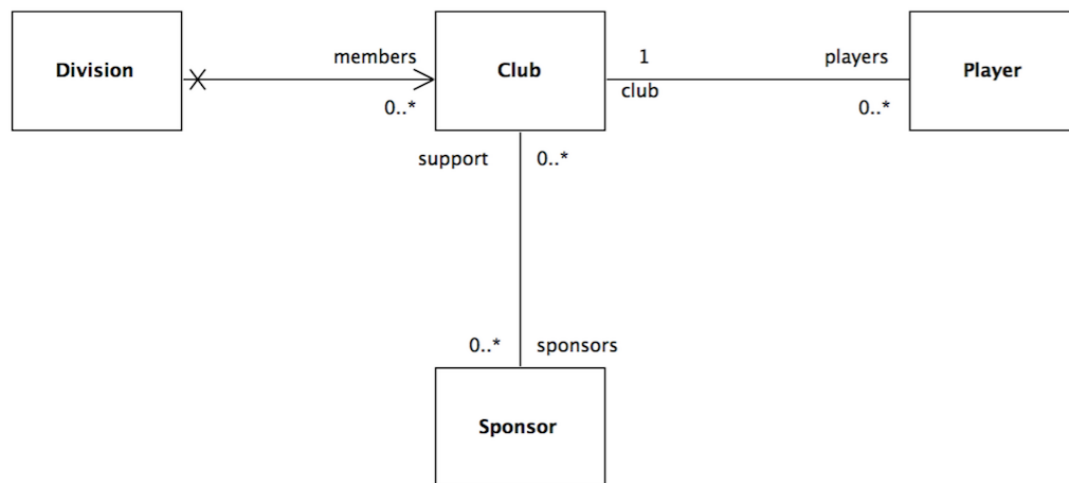
Delete Club

Divisions	Clubs	Players	Sponsors
Clubs			
Club			
dunmore	jim mary	<input type="button" value="✘"/>	
tramore	sam john	<input type="button" value="✘"/>	
fenor	mike linda	<input type="button" value="✘"/>	

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

```
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();
}
```



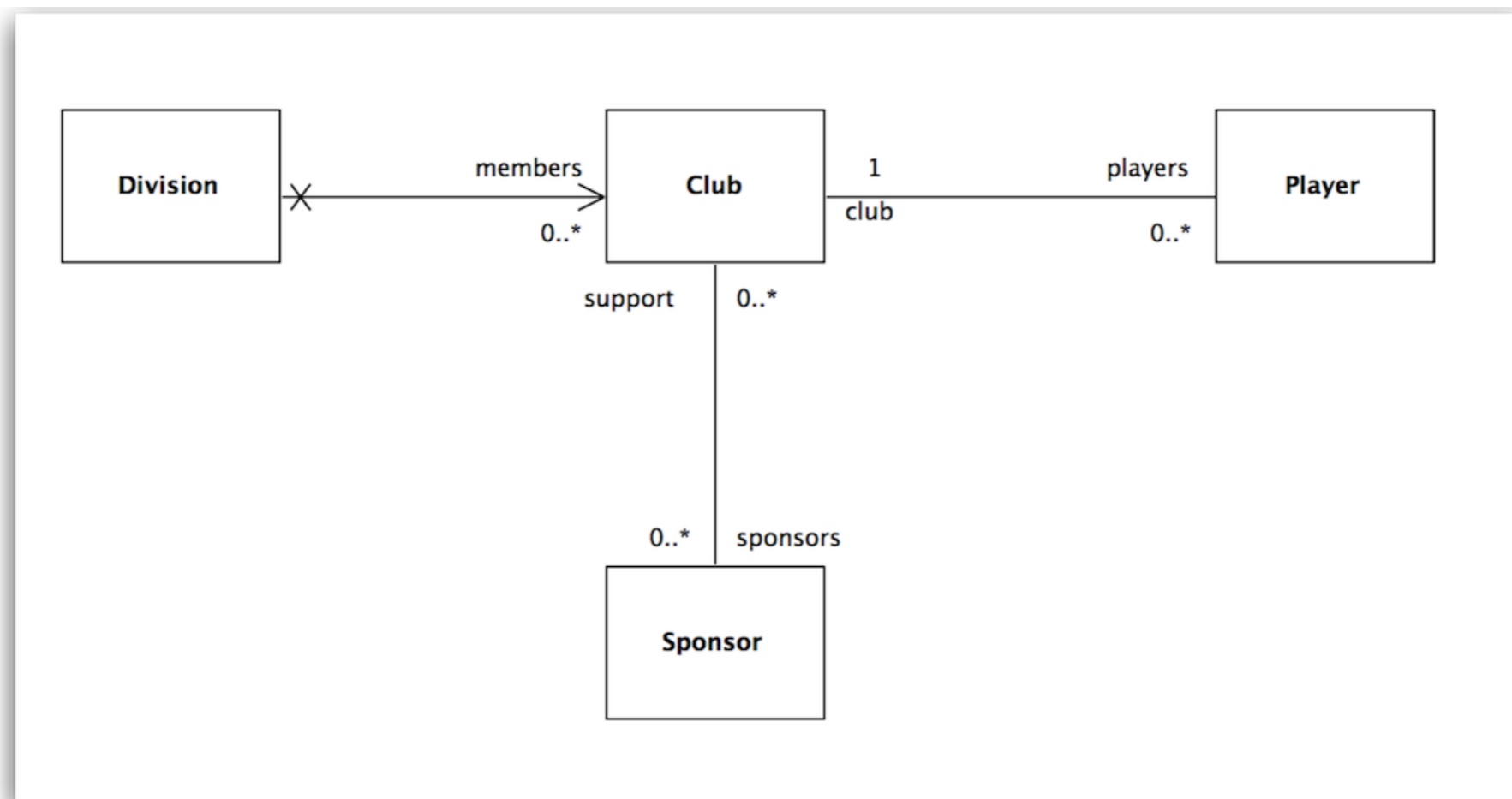
Delete Division

Divisions	Clubs	Players	Sponsors
Divisions			
Division			
senior	tramore dunmore		<input type="button" value="✖"/>
junior	fenor		<input type="button" value="✖"/>

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

```
GET /divisions/delete/{id} Divisions.delete
```

```
public static void delete(Long id)
{
  Division division = Division.findById(id);
  division.delete();
  index();
}
```



Show Sponsors Clubs

Divisions	Clubs	Players	Sponsors
Sponsors			
Sponsor	Clubs		
pub	tramore		<input type="button" value="X"/>
newsagent	tramore		<input type="button" value="X"/>
	fenor		

Table inside a table

Divisions	Clubs	Players	Sponsors
Sponsors			
Sponsor	Clubs		
pub	tramore		<input type="checkbox"/>
newsagent	tramore		<input type="checkbox"/>
	fenor		<input type="checkbox"/>

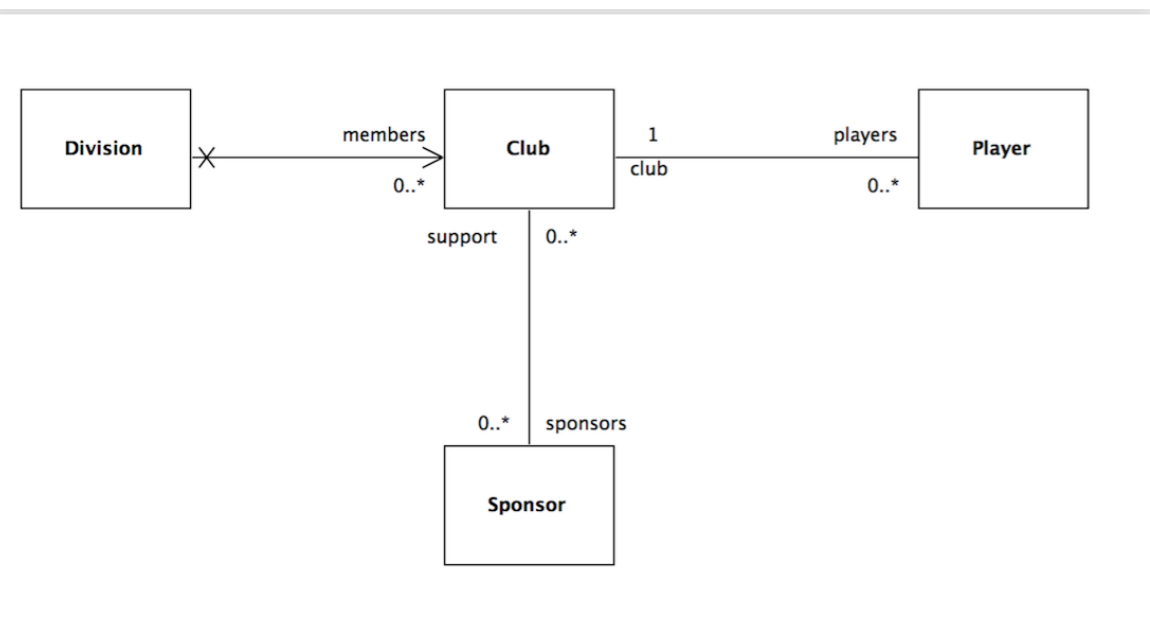
```
<table class="ui table">
  <thead>
    <tr>
      <th>Sponsor</th>
      <th>Clubs</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    #{list items:sponsors, as:'sponsor'}
    <tr>
      <td>${sponsor.name}</td>
      <td>
        <table class "ui table">
          <tr>
            #{list items:sponsor.support, as:'club'}
            <td>${club.name}</td> </tr>
          #{/list}
        </tr>
      </td>
      <td></td>
    </tr>
    #{/list}
  </tbody>
</table>
```

Delete Sponsors

Divisions	Clubs	Players	Sponsors
Sponsors			
	Sponsor	Clubs	
	pub	tramore	<input type="button" value="✘"/>
	newsagent	tramore fenor	<input type="button" value="✘"/>

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

```
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();
}
```

Divisions Clubs **Players** Sponsors

Players

Player	Club	
jim	dunmore	✘
mary	dunmore	✘
sam	tramore	✘

 **ADD PLAYER**

Create Player

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

```

#{extends 'main.html' /}
#{set title:'Player Details' /}

<section class="ui raised form segment">
  <form action="/players/newplayer" method="POST">
    <div class="field">
      <label> Player Name </label>
      <input type="text" name="name">
    </div>
    <button class="ui blue submit button">Add</button>
  </form>
</section>

```

```

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

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

```

Player Name

ADD

Divisions	Clubs	Players	Sponsors
Clubs			
Club			
dunmore	jim mary		<input type="button" value="x"/>
tramore	sam		<input type="button" value="x"/>
fenor			<input type="button" value="x"/>

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

```

#{list items:players, as:'player'}
  <tr>
    <td>${player.name}</td>
    <td> ${player.club.name} </td>
    <td>
      <a class="ui ui icon button" href="/players/delete/${player.id}">
        <i class="delete red icon"></i>
      </a>
    </td>
    <td></td>
  </tr>
#{/list}

```

Divisions	Clubs	Players	Sponsors
Clubs			
Club			
dunmore	jim		<input type="button" value="x"/>
	mary		
tramore	sam		<input type="button" value="x"/>
fenor			<input type="button" value="x"/>

Null Safe Operator in Templates

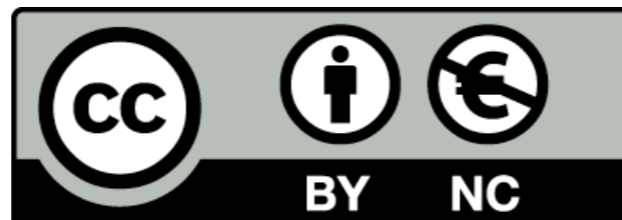
player.club.?name

```

#{list items:players, as:'player'}
  <tr>
    <td>${player.name}</td>
    <td> ${player.club?.name} </td>
    <td>
      <a class="ui ui icon button" href="/players/delete/${player.id}">
        <i class="delete red icon"></i>
      </a>
    </td>
    <td></td>
  </tr>
#{/list}

```

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



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