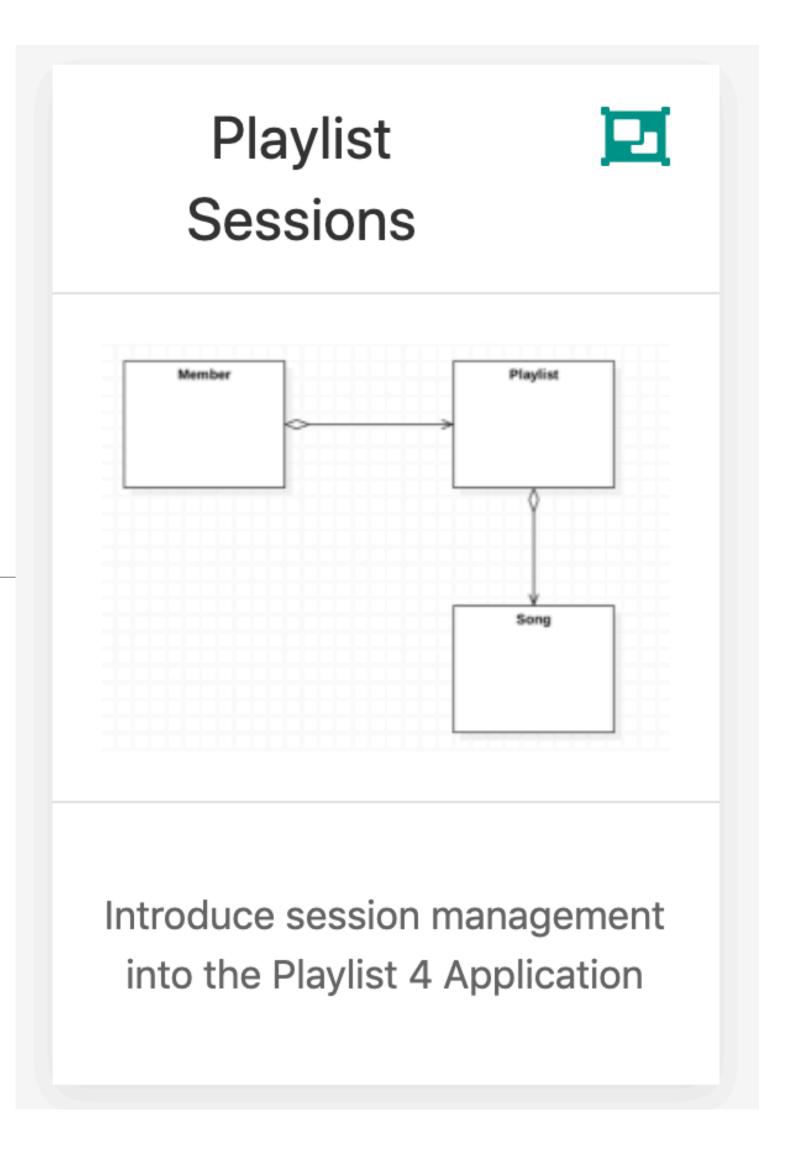
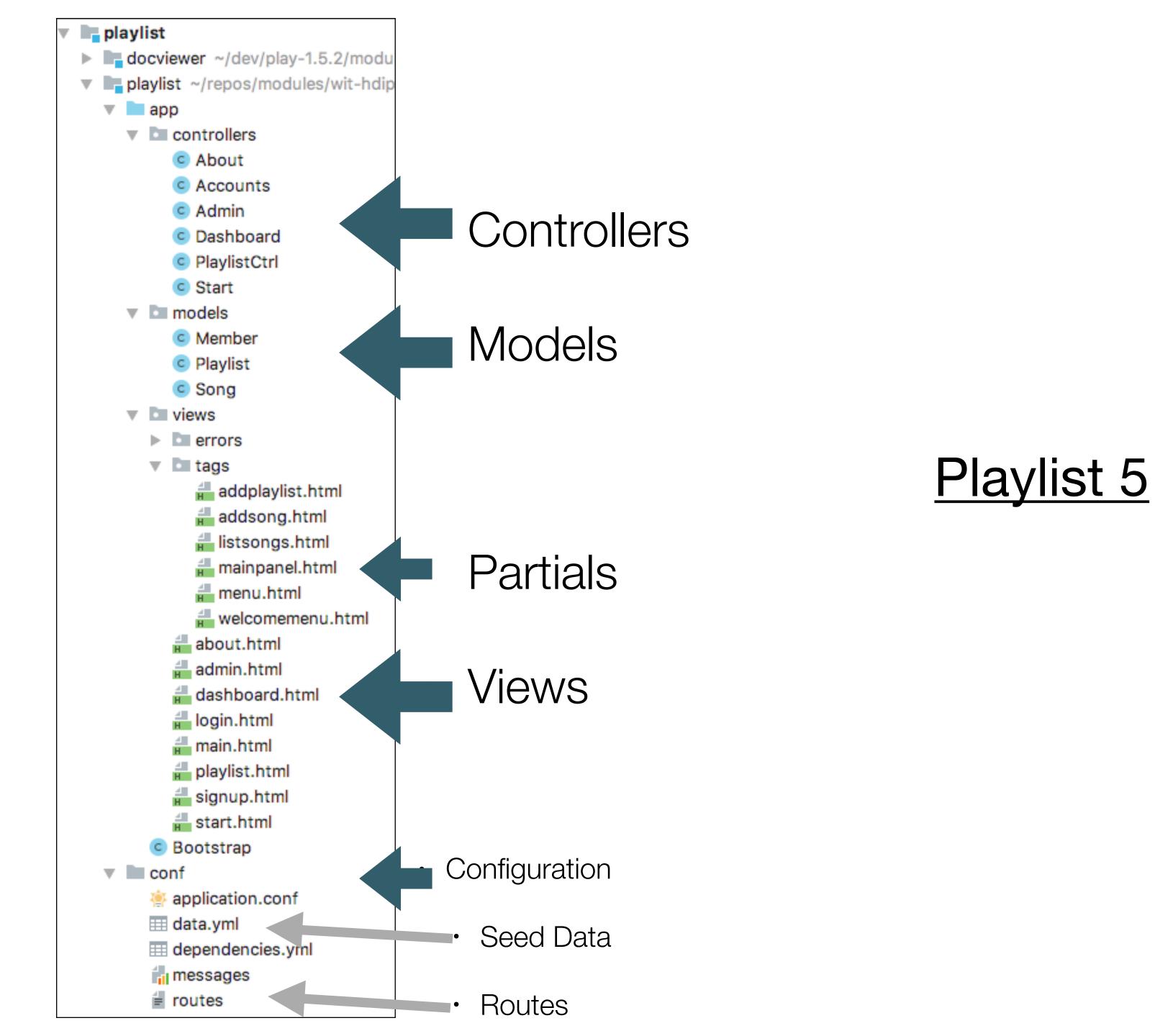
Playlist 5 - Sessions





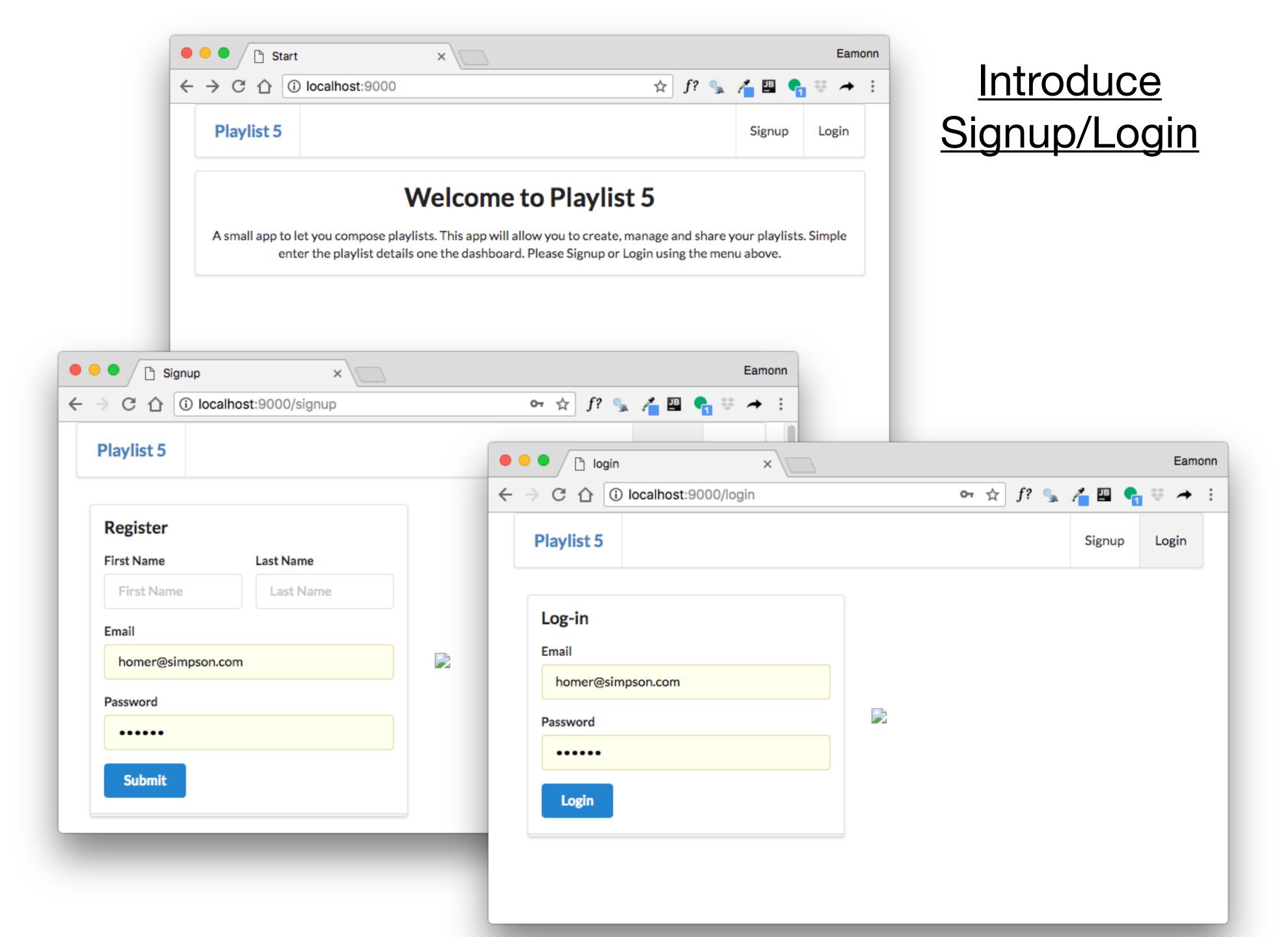
Entity Class: Member

```
@Entity
public class Member extends Model
  public String firstname;
  public String lastname;
  public String email;
  public String password;
  @OneToMany(cascade = CascadeType.ALL)
  public List<Playlist> playlists = new ArrayList<Playlist>();
  public Member(String firstname, String lastname, String email, String password)
    this.firstname = firstname;
    this.lastname = lastname;
    this.email = email;
    this.password = password;
  public static Member findByEmail(String email)
    return find("email", email).first();
  public boolean checkPassword(String password)
    return this.password.equals(password);
```

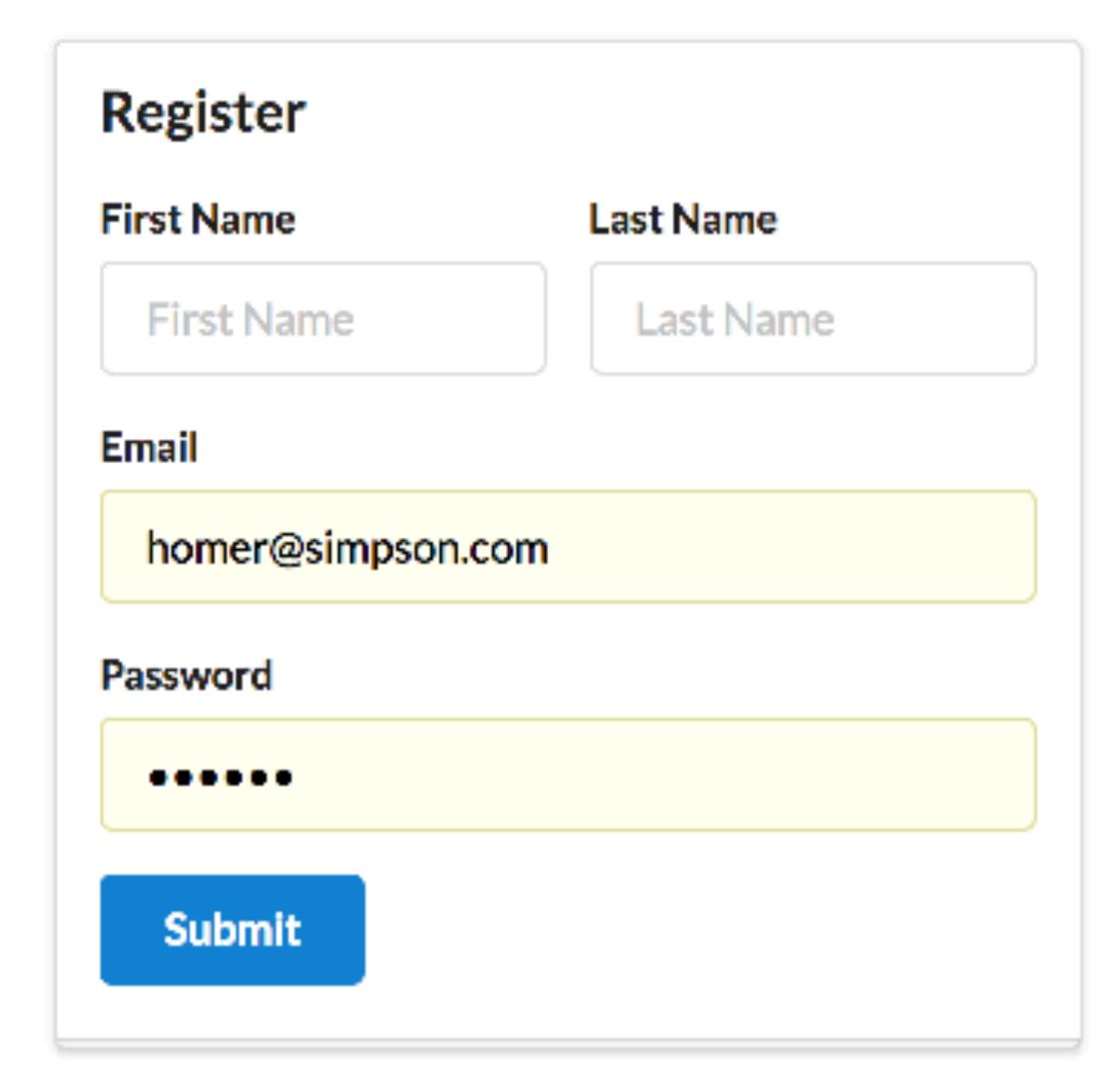
data.yml

```
Member(m1):
    firstname: homer
    lastname: simpson
    email: homer@simpson.com
    password: secret

Member(m2):
    firstname: marge
    lastname: simpson
    email: marge@simpson.com
    password: secret
```

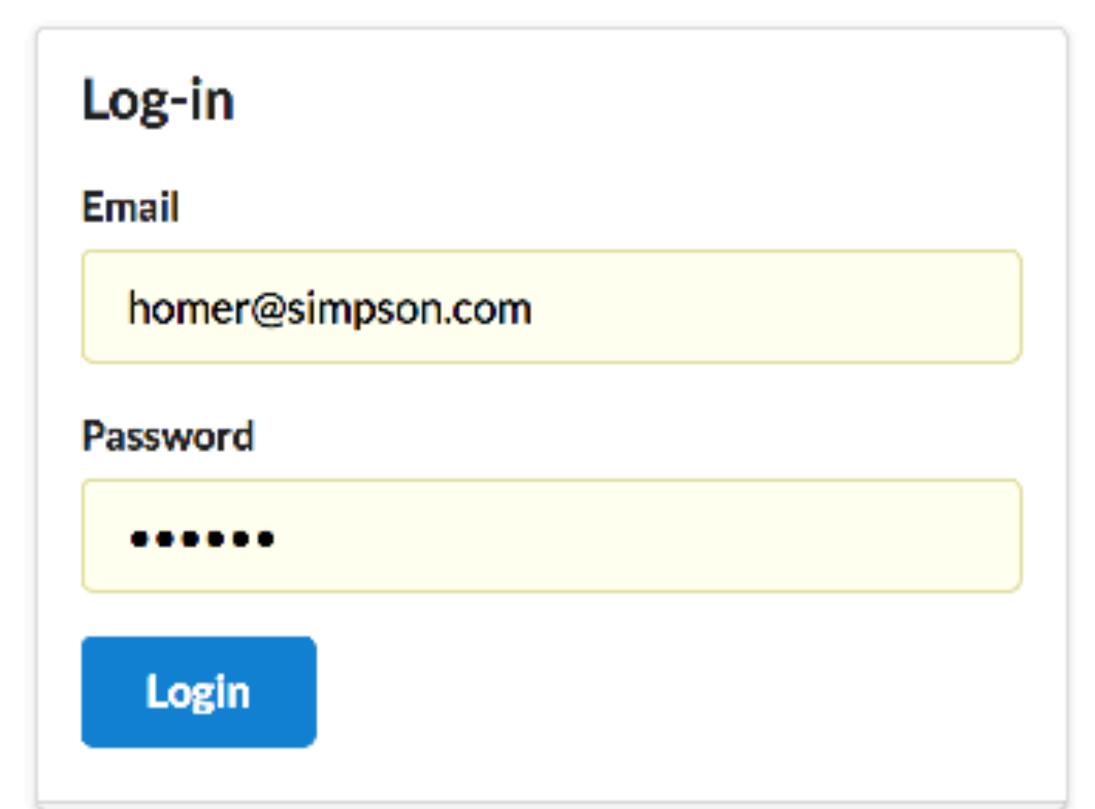


Signup Form



```
<div class="ui two column grid basic middle aligned segment">
  <div class="column">
    <form class="ui stacked segment form" action="/register" method="POST">
      <h3 class="ui header">Register</h3>
      <div class="two fields">
        <div class="field">
          <label>First Name</label>
          <input placeholder="First Name" type="text" name="firstname">
        </div>
        <div class="field">
          <label>Last Name</label>
          <input placeholder="Last Name" type="text" name="lastname">
        </div>
      </div>
      <div class="field">
        <label>Email</label>
        <input placeholder="Email" type="text" name="email">
      </div>
      <div class="field">
        <label>Password</label>
        <input type="password" name="password">
      </div>
      <button class="ui blue submit button">Submit</button>
    </form>
  </div>
  <div class="column">
    <img class="ui image" src="/public/images/tosdo-1.png">
  </div>
</div>
```

Login Form



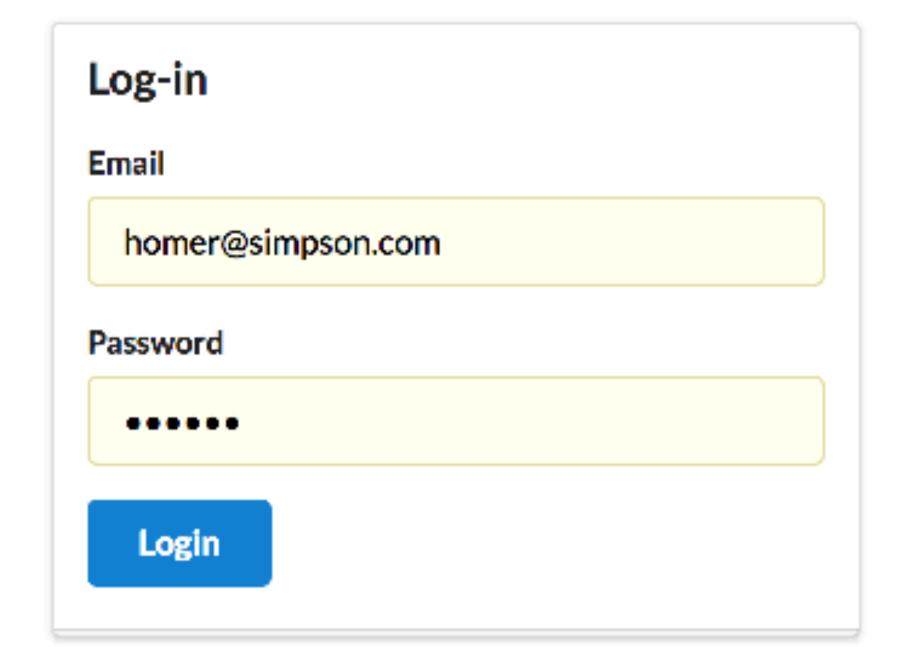
```
<div class="ui two column middle aligned grid basic segment">
 <div class="column">
   <form class="ui stacked segment form" action="/authenticate" method="POST">
     <h3 class="ui header">Log-in</h3>
     <div class="field">
       <label>Email</label> <input placeholder="Email" name="email">
     </div>
     <div class="field">
       <label>Password</label> <input type="password" name="password">
     </div>
     <button class="ui blue submit button">Login
   </form>
 </div>
 <div class="column">
   <img class="ui image" src="/public/images/todo-2.jpg">
 </div>
</div>
```

GET /signup Accounts.signup
GET /login Accounts.login

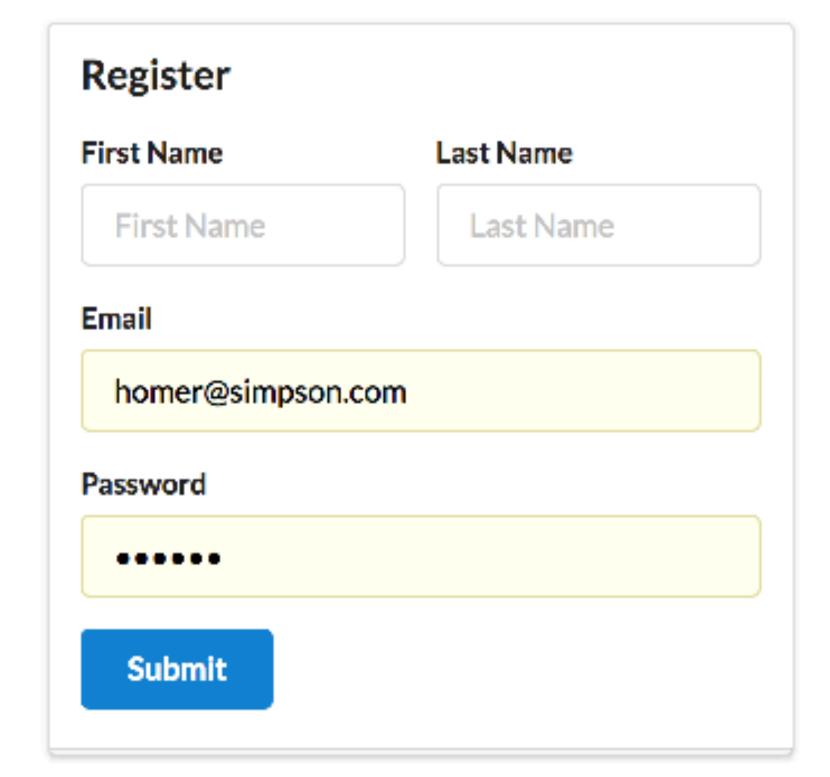
```
public class Accounts extends Controller
{
   public static void signup()
   {
      render("signup.html");
   }

   public static void login()
   {
      render("login.html");
   }
}
```

irst Name	Last Name
First Name	Last Name
mail	
homer@simpson.e	com
Password	



<u>Initial Accounts</u> Routes + Controller



Signup Member: Register

```
public class Accounts extends Controller
{
...
   public static void register(String firstname, String lastname, String email, String password)
   {
      Logger.info("Registering new user " + email);
      Member member = new Member(firstname, lastname, email, password);
      member.save();
      redirect("/");
   }
...
}
```

Log-in Email homer@simpson.com Password Login

Login Member: Authenticate

POST /authenticate Accounts.authenticate

```
<form class="ui stacked segment form" action="/authenticate" method="POST">
```

```
public class Accounts extends Controller
 public static void authenticate(String email, String password)
    Logger.info("Attempting to authenticate with " + email + ":" + password);
   Member member = Member.findByEmail(email);
    if ((member != null) && (member.checkPassword(password) == true)) {
      Logger.info("Authentication successful");
      session.put("logged_in_Memberid", member.id);
      redirect ("/dashboard");
    } else {
      Logger.info("Authentication failed");
      redirect("/login");
```

Login Member: Authenticate

Find Member in DB

If member found & passwords match

Store members id in the Session object

Render Dashboard

Back to login

```
public class Accounts extends Controller
public static void authenticate(String email,
                                  String password)
  {
   Member member = Member.findByEmail(email);
    if ((member != null) &&
        (member.checkPassword(password) == true)) {
      session.put("logged_in_Memberid", member.id);
      redirect ("/dashboard");
    } else {
      redirect("/login");
```

Utility Method: getLoggedInMember()

```
public class Accounts extends Controller
{
...
   public static Member getLoggedInMember()
   {
      Member member = null;
      if (session.contains("logged_in_Memberid")) {
            String memberId = session.get("logged_in_Memberid");
            member = Member.findById(Long.parseLong(memberId));
      } else {
            login();
      }
      return member;
   }
...
}
```

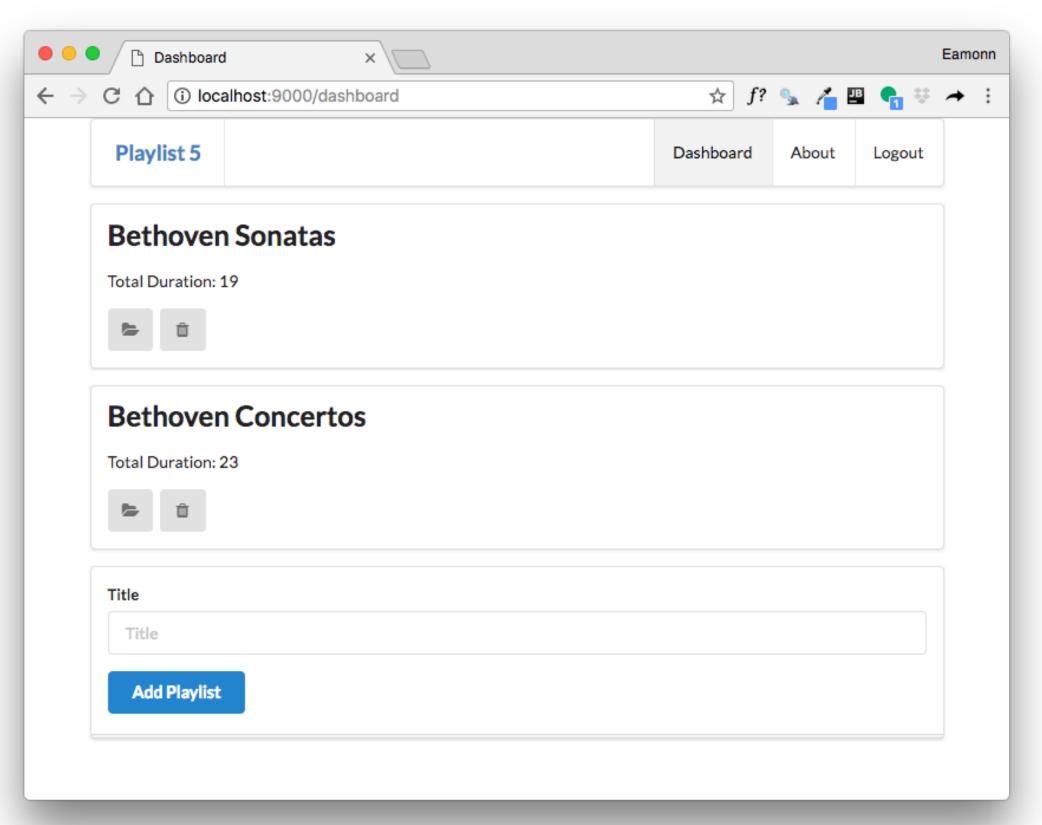
Read the session object, and locate the member id
Find Member in database
Return the member
If no member found, switch to login screen

Revised Dashboard Index

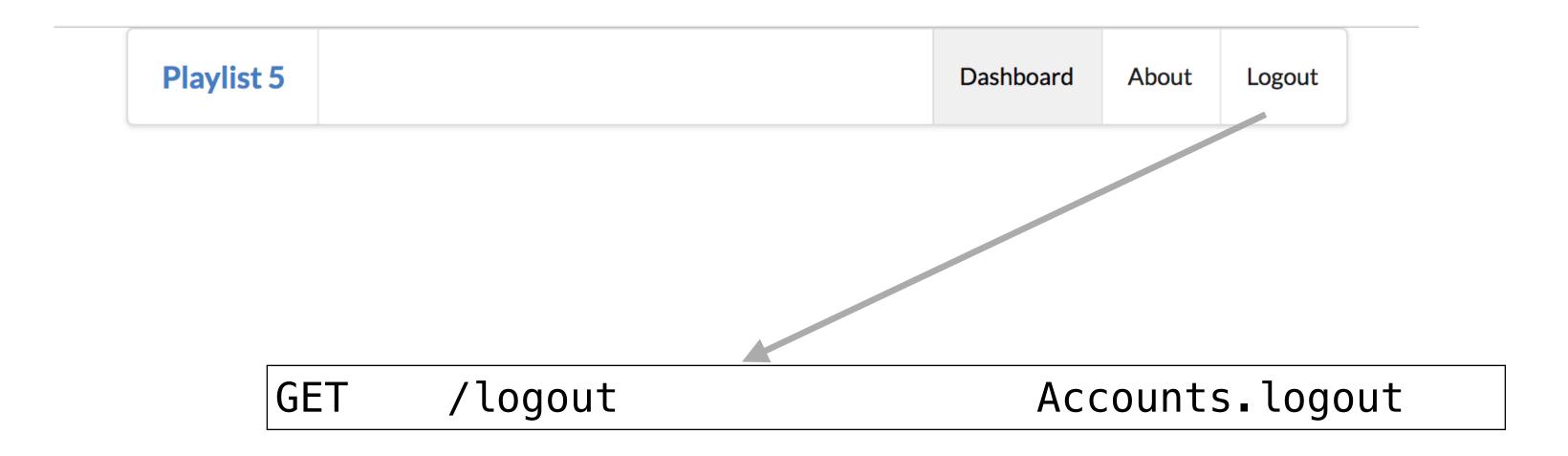
Retrieved the logged in member

Send the member's playlist to the view

```
public class Dashboard extends Controller
{
   public static void index()
   {
      Logger.info("Rendering Dasboard");
      Member member = Accounts.getLoggedInMember();
      List<Playlist> playlists = member.playlists;
      render ("dashboard.html", playlists);
   }
   ...
}
```



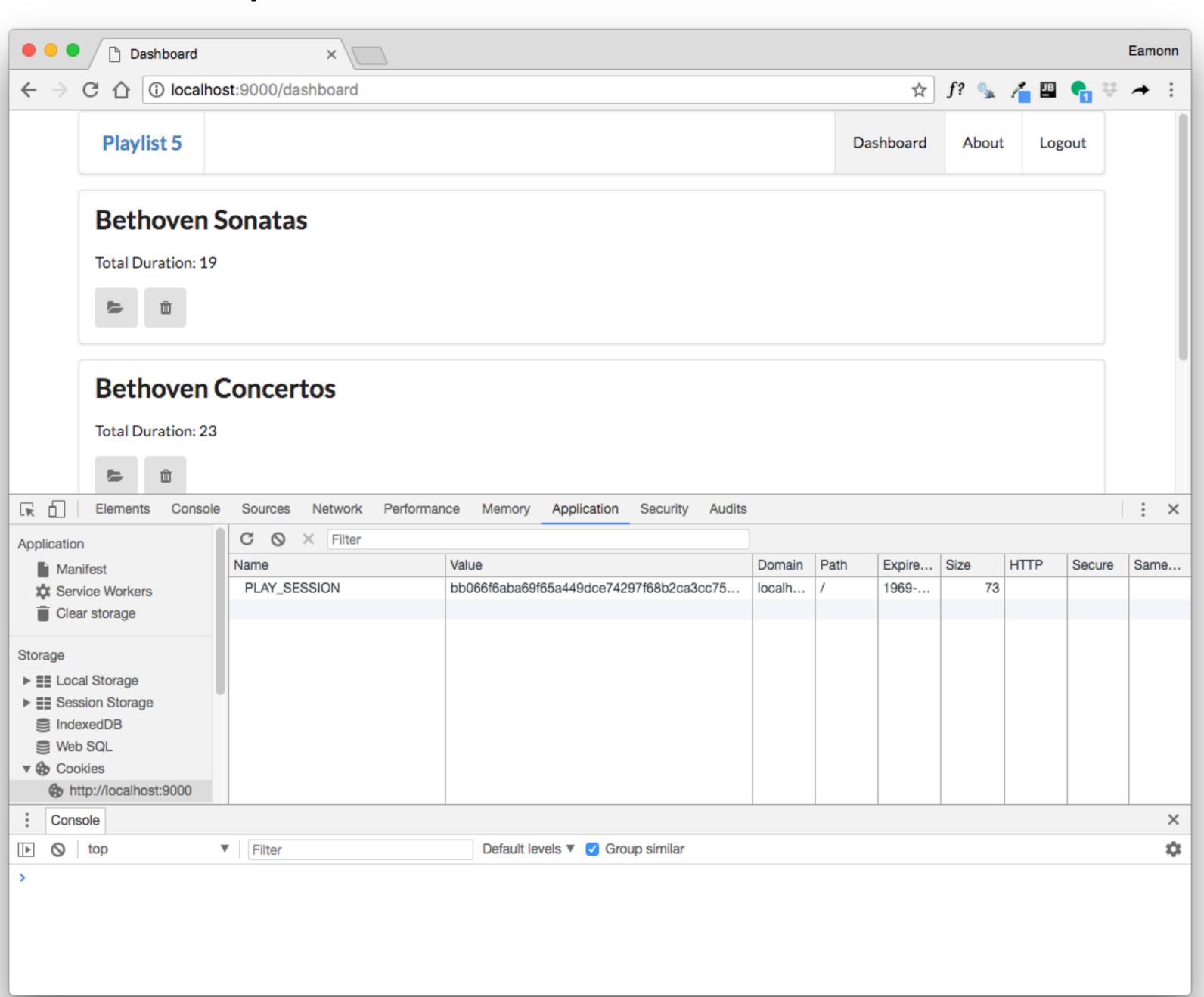
Accounts logout() action



```
public static void logout()
{
    session.clear();
    redirect ("/");
}
```

Clear the session Member id will no longer be found

Inspect the Session Cookie in Chrome



Logout clears the Cookie

