

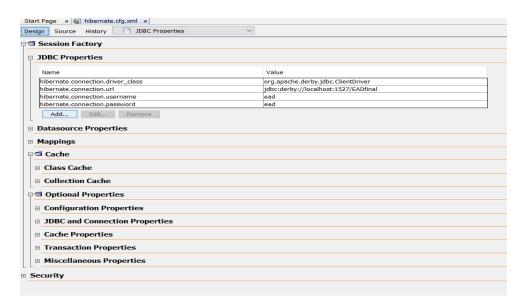
### Introduction

GMDB(Global Movie Database) is a popular website in people. GMDB management decided to invest a new java application. I created a java web application with hibernate as the Object Relational Mapping technology. All the requirements works in this java web application.

Use java server pages to this web application. Netbeans IDE use to develop the application

#### **Description of Code**

create hibernate.cfg.xml and adding properties.



Created database url, username and password adding to this code. This is the code of hibernate.cfg.xml. use update in hibernate.hbm2ddl.auto property. Using create then the start the project always drop the tables and create tables again. It is not suitable to this application. adding entity java files name adding to this mapping. Create all the entity adding to this. Not adding the error showing in output glassfish server console.

```
<?xml version="1.0" encoding="UTF-8"?:</pre>
   <!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN" "http://hibernate.sourceforge.ne
3 ☐ <hibernate-configuration>
4 - <session-factory>
      8
      property name="hibernate.connection.password">ead/property>
10
      property name="hibernate.hbm2ddl.auto">update/property>
11
      property name="hibernate.show_sql">true
12
      property name="hibernate.current_session_context_class">thread/property>
13
      <mapping class="com.hibernate.entity.Movie"/>
14
      <mapping class="com.hibernate.entity.Users"/>
      <mapping class="com.hibernate.entity.Directors"/>
      <mapping class="com.hibernate.entity.Genres"/>
      <mapping class="com.hibernate.entity.Actors"/>
18
      <mapping class="com.hibernate.entity.UserPurchase"/>
      <mapping class="com.hibernate.entity.AverageRating"/>
    </session-factory>
   </hibernate-configuration>
```

• In sign up password and confirm password checked and values passed to table.

• User is name as Admin and password include in signUp form. In signIn form check "Admin" and admin can go to adminHome.page. Use AdminSignIn method to validate admin password in users table.

```
if (action.equals("signin")) {
   String nm = request.getParameter("name_in");
   String pw = request.getParameter("pass_in");

if (nm.equals("Admin")) {
   boolean result = false;
   UsersEao usEao = new UsersEaoImp();
   result = usEao.AdminSignIn(nm, pw);

if (result) {
   session.setAttribute("name_in", nm);
```

• . Users use UserSignIn method to validate the user.

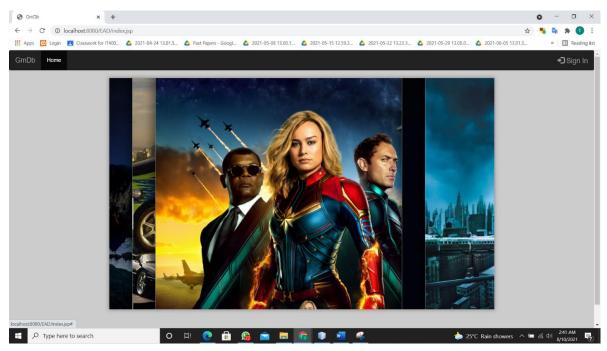
```
else {
  boolean result = false;
  UsersEao usEao = new UsersEaoImp();
  result = usEao.UserSignIn(nm, pw);

if (result) {
    session.setAttribute("name_in", nm);
}
```

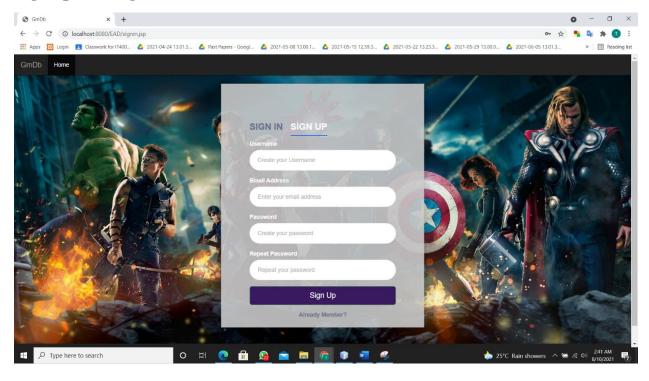
• Implement java file of UserEao(UserEaoImp.java)

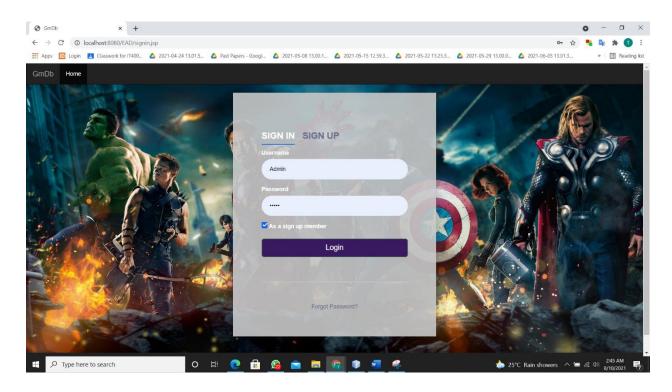
```
@Override
public boolean UserSignUp(String userName, String email, String password) {
   Users usl = new Users(userName,email,password);
    boolean bstate = false;
    trv{
       Session session = sessionFactory.openSession();
        session.beginTransaction();
        session.saveOrUpdate(usl);
        session.getTransaction().commit();
        session.close():
       bstate = true;
   }catch(Exception e) {}
    return bstate:
@Override
public boolean UserSignIn(String userName, String password) {
       Session session = sessionFactory.openSession():
        System.out.println("aaaaaaa##");
       Users user = (Users) session.get(Users.class,userName);
System.out.println("bbbbbbb");
        if(user.getUserName().equals(userName) && user.getUserPassword().equals(password)) {
            return bstate;
   } catch (Exception e) {
       e.printStackTrace();
    return bstate;
```

## Project homepage. Click Sign In button and go to signin.jsp page.



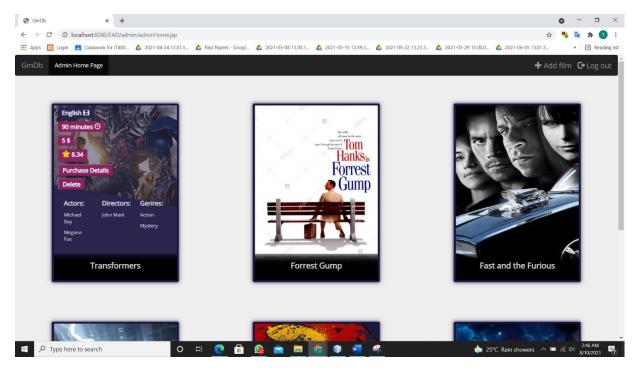
# SignUp and SignIn UI





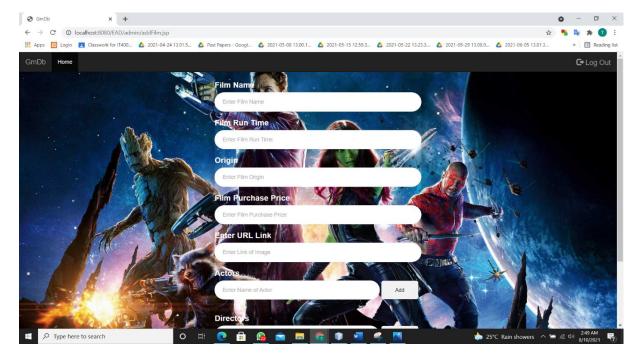
## **Admin Home page**

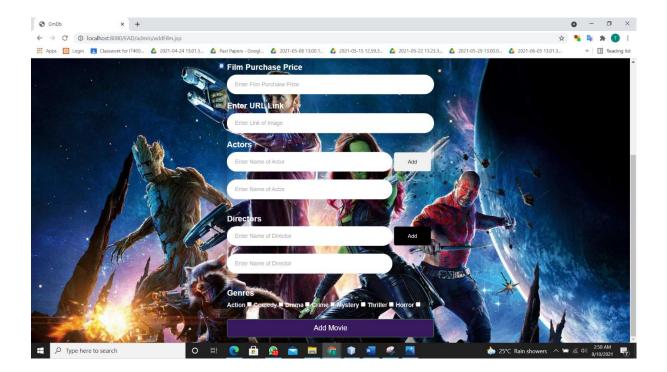
• In adminHome page, +add Film in navbar used to add new film. show the movies included in movie cards. Animation added to that Ui card.



## **Add Film Page**

• Click +Add film then go to this form. In this form click Add button infront of Actors, directors. Then add other text area. We could add actors and directors.





• Using this Script to create new text area. The created new text area has **unique** name. **It** is important to add data to table.

```
var d = 1;
function addActor() {

var bbbb = document.getElementById("actors");

var ab = document.createElement("input");
    ab.setAttribute("type", "text");
    ab.setAttribute("aname", "act flup" + d);
    ab.setAttribute("placeholder", "Enter Name of Actor");

bbbb.appendChild(ab.cloneNode(true));
    d++;
}

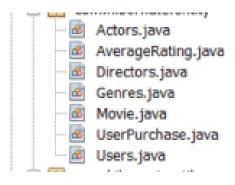
var e = 1;
function addDirector() {

var bbbb = document.getElementById("directors");

var ab = document.createElement("input");
    ab.setAttribute("type", "text");
    ab.setAttribute("faless", "inputID");
    ab.setAttribute("faless", "inputID");
    ab.setAttribute("name", "dir flup" + e);
    ab.setAttribute("placeholder", "Enter Name of Director");
    bbbb.appendChild(ab.cloneNode(true));
    e++;
}
```

#### **Table Create with annotation**

• Create 3 tables for directors, actors and genres. They have multiple values in one movie. So use that java files to create database tables. Using movieId as a **foreign key** in Actors, Directors, Genres table.



- In movie.java file using autogenerate movieId. It is primary key.

  OneToMany annotation for actors, directors, and genres. Collection is a data type using to put data in arraylist.
- Actors, directors, and genres tables are mappedBy movie. Using cascade and fetch.

```
@Id
@GeneratedValue(strategy = GenerationType.AUTO)
private int movieId;
private String movieName;
private String movieRuntime;
private String origin;
private String price;
private String link;

@OneToMany(mappedBy="movie", cascade = CascadeType.ALL, fetch = FetchType.EAGER)
private Collection<Actors> actors =new ArrayList();

@OneToMany(mappedBy="movie", cascade = CascadeType.ALL, fetch = FetchType.EAGER)
private Collection<Directors> directors =new ArrayList();

@OneToMany(mappedBy="movie", cascade = CascadeType.ALL, fetch = FetchType.EAGER)
private Collection<Genres> genres =new ArrayList();
```

• Using ManyToOne annotation in Genres, Directors and Actors tables.

```
@ManyToOne
@JoinColumn(name="movieId")
private Movie movie;
```

Add actors, directors, genres to movie. Ex – movie.getActors().add(actors)
 adding details include to movie table.

```
int i = 0;
int j = 0;
     String act = request.getParameter("act_flup" + i);
    if (act == null) {
   break;
    Actors actors = new Actors();
actors.setActorsName(act);
     actors.setMovie(movie);
     movie.getActors().add(actors);
while (true) {
     String dir = request.getParameter("dir_flup" + j);
     if (dir == null) {
          break:
     Directors directors = new Directors();
    directors.setDirectorName(dir);
directors.setMovie(movie);;
     movie.getDirectors().add(directors);
for (int k = 1; k < 8; k++) {
    String check = request.getParameter("check" + k);
if (check != null) {
   Genres genres = new Genres();
         genres.setGenresName(check);
         genres.setMovie(movie);
          movie.getGenres().add(genres);
response.sendRedirect("adminHome.jsp");
```

```
SessionFactory sessionFactory;

public MovieEaoImp() {
    sessionFactory = HibernateUtil.getSessionFactory();
}

@Override
public void create(Movie movie) {
    Session session = sessionFactory.openSession();
    session.beginTransaction();

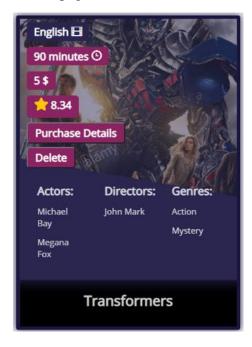
    session.persist(movie);

    session.getTransaction().commit();
    session.close();
}
```

#### Movie Card UI in Admin Home page

• Use while function to repeat the card. Film Name, run time, price, rating average, Origin, Actors, directors and genres including in card. Animation added to the cards. The mouse put on the card then the animation works. In adminHome page screenshot include above.

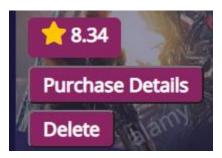




• Get movie details from getMovies() method. The method is a List type. Use Iterator and the all list data include to **it** named variable. it.hasNext() using to checked Are the data

including in list. In while loop data include to **mv**. All the actors, directors and genres values are include in **mv** variable. All the values get from like mv.getMovieName()

## Average Rating, Purchase Details and Delete in Movie Card



## Average Rating

Firstly check the avrlist is not Empty. Because that case use to in first time running program there haven't data in tables. So error in the code. The error solve using this function. If avrlist is not empty then the go inside the code. Use **getRateVal()** methode to get users including rate values of suitable movie. Use setScale(2,RoundingMode.HALF\_UP) for round the decimal value to two decimal values.

```
AverageRatingEao avrRatingEao = new AverageRatingEaoImpl();
List avrlist = null;
System.out.print("www
avrlist = avrRatingEao.getRate(mv.getMovieName());
System.out.print(avrlist);
double total = 0;
int k = 0;
double avr = 0;
double avrg = 0;
if(!avrlist.isEmpty()){
Iterator itl = avrlist.iterator();
while (itl.hasNext()) {
   System.out.print("///////....,,,dddddddddddddddd");
   AverageRating avrRate = (AverageRating) itl.next();
   System.out.print(avrRate.getMovieName());
   int a = avrRate.getRateVal();
   System.out.print(a);
   total += a;
   k++;
   avr = total / k:
   System.out.print(avr);
BigDecimal bd = new BigDecimal(avr).setScale(2, RoundingMode.HALF_UF);
```

```
@Override
public List<AverageRating> getRate(String filmName) {
    List<AverageRating> avrList = null;

    System.out.println(filmName+"llll");

String hql = "FROM AverageRating avr WHERE avr.movieName= :filmName_q";

Session session = sessionFactory.openSession();

Query query = session.createQuery(hql);

System.out.println(query);

query.setParameter("filmName_q", filmName);

avrList = query.list();

System.out.println(avrList);

session.close();

return avrList;

}
```

#### • Purchase Details

This is a button to get the purchase use details.

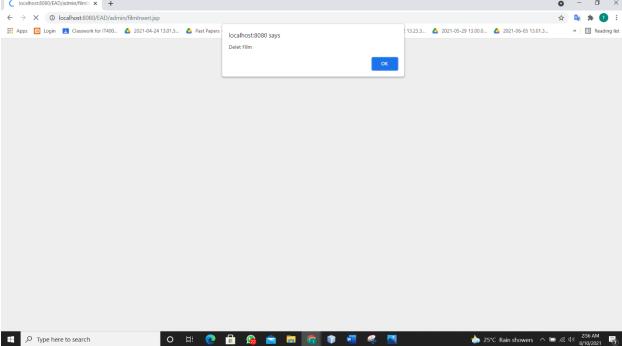
```
□ <%
                                                       UserPurchaseEao usrpurchEao = new UserPurchaseEaoImpl();
     String flmNm = "";
                                                       System.out.print("//////");
                                                       System.out.print(flmNm);
     String action = request.getParameter("action");
     System.out.print("....");
                                                       List list = null;
     if (action.equals("details")) {
        flmNm = request.getParameter("filmName");
                                                       int i = 1;
         System.out.print(flmNm);
                                                       list = usrpurchEao.getPurchaseDetails(flmWm);
         session.setAttribute("filmName", flmNm);
                                                       Iterator it = list.iterator();
                                                       while (it.hasNext()) {
                                                          UserPurchase upch = (UserPurchase) it.next();
☐ <script>
                                                          System.out.print("//////");
  window.location.href = "filmUsing.jsp";
  </script>
                                                    {>
public List<UserPurchase> getPurchaseDetails(String filmName) {
   List<UserPurchase> purchesList = null;
      String hql = "FROM UserPurchase u WHERE u.moviePurchaseName= :filmName_q";
      Session session = sessionFactory.openSession();
      Query query = session.createQuery(hql);
      System.out.println(query);
      query.setParameter("filmName_q", filmName);
      purchesList = querv.list();
      session.close();
      return purchesList;
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                                                                                                            » 🗏 Reading list
                                                                         DATE OF PURCHASE
```



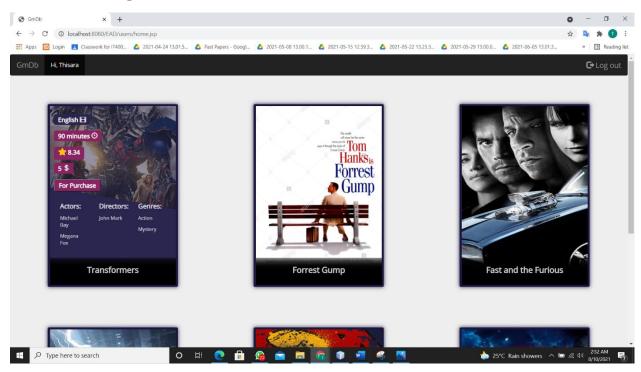
#### • Delete Button

Click the button then the delete the include film.

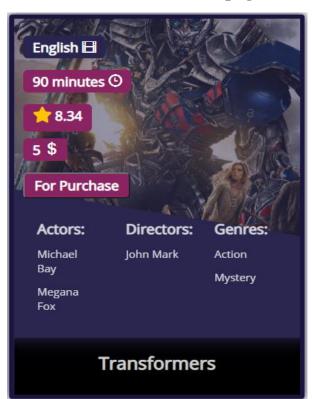
```
@Override
                                               public void delete(Movie movie) {
   else if (action.equals("delete")) {
      flmNm = request.getParameter("filmName");
                                                   Session session = sessionFactory.openSession();
                                                   session.beginTransaction();
      session.setAttribute("filmName", flmNm);
                                                   String hql = "FROM Movie m WHERE m.movieName = :movie nm";
      MovieEao mvEao = new MovieEaoImp();
                                                   Query query = session.createQuery(hql);
                                                   query.setParameter("movie_nm", movie.getMovieName());
      Movie movie = new Movie();
      movie.setMovieName(flmNm);
                                                   movie = (Movie) query.list().get(0);
      mvEao.delete(movie);
                                                   session.delete(movie);
<script>
  alert("Delete Film")
                                                   session.getTransaction().commit();
  window.location.href = "adminHome.jsp";
                                                   session.close();
</script>
C localhost:8080/EAD/admin/filmln × +
```



# **User Home Page UI**



## Movie Card in Users home page



Click For Purchase Button and go to purchase.jsp page. Not purchase the movie couldn't rate the movie.

• Check the movie purchased (validate purchase)

#### • Purchase the movie

```
if (action.equals("purchase")) {
         session.setAttribute("action", pchs);
        boolean result = false;
MovieEao mvEao = new MovieEaoImp();
UserPurchaseEao usprchEao = new UserPurchaseEaoImpl();
        Date date = new Date();
         result = usprchEao.UserPurchaseIn(usPrchName, filmName, filmPrice, date);
         if (result) {
 seript>
alert("Purchase Complete");
window.location.href = "home.jsp";
<%} else {%>
    alert("Operation failed, please try again");
window.location.href = "../users/purchase.jsp";
 public boolean UserPurchaseIn(String userPurchName, String movieName, String moviePrice, Date purchaseDate) {
      UserPurchase usphs = new UserPurchase(userPurchName, movieName, moviePrice, purchaseDate);
      System.out.println(userPurchName);
      System.out.println(movieName);
      boolean bstate = false;
           Session session = sessionFactory.openSession();
           session.beginTransaction();
           session.saveOrUpdate(usphs);
           session.getTransaction().commit();
           session.close();
           bstate = true;
      } catch (Exception e) {
      return bstate;
```

## **Purchase Page UI**

