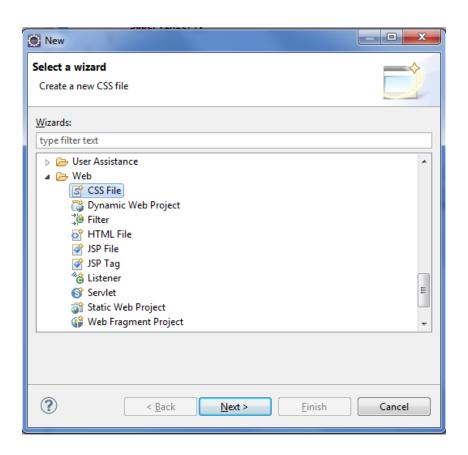
Wicket – Structures

DBMS 2012-2013 Fall

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Select File->New->Other->Web.

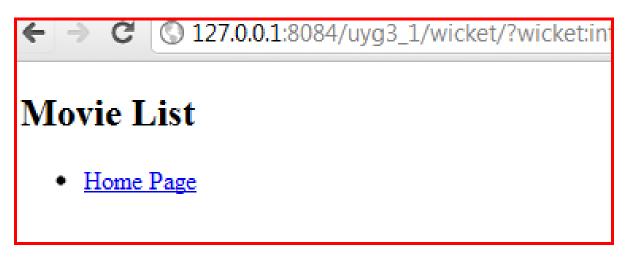


- style.css file will be created.
- Add the html codes which is below in HomePage.html file.

```
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
        <title>MovieDB</title>
        link wicket:id="stylesheet" rel="stylesheet" type="text/css" href="#"/>
        </head</pre>
```

- Stylesheet will be called from HomePage.java file.
- this.add(new StyleSheetReference("stylesheet", HomePage.class,"style.css"));
- We just added stylesheet to the HomePage.
- Our aim is to use these stylesheet in our all pages, not only in HomePage.





- Adding shared components to multiple pages in an application is a tedious and error-prone approach.
- Specify these shared components at one point and let pages get them from that single source.
- Add these shared components to a base page and extend all application pages from this base page.

```
public class BasePage extends WebPage {
public BasePage() { this(null); }
public BasePage(IModel model) {
    super(model);
    this.add(new StyleSheetReference("stylesheet",
  BasePage.class, "style.css"));
    this.add(new HeaderPanel("mainNavigation"));
```

- Note that shared components in HeaderPanel.html
 - <wicket:panel>

 - Home
 - List movies

 - </wicket:panel>

Changes In HeaderPanel.java.

```
public class HeaderPanel extends Panel {
public HeaderPanel(String id) {
 super(id);
 Link homeLink = new Link("home page") {
    public void onClick() {
     this.setResponsePage(new HomePage()); }
  };
this.add(homeLink);
 Link movieListLink = new Link("list movies") {
    public void onClick() {
     this.setResponsePage(new MovieListPage());
this.add(movieListLink);}}
```

- Usage of the Panel in other pages.
- HomePage.html
 - <div wicket:id="mainNavigation">links to common pages</div>
- Add also to the BasePage.java.
 - this.add(new <u>HeaderPanel("mainNavigation")</u>);

 The template which is created in BasePage.java is inherited from HomePage.java

```
    public class HomePage extends BasePage {
    public HomePage() {
    Date now = new Date();
    this.add(new Label("datetime", now.toString())); }}
```



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Movie List

• Home Page

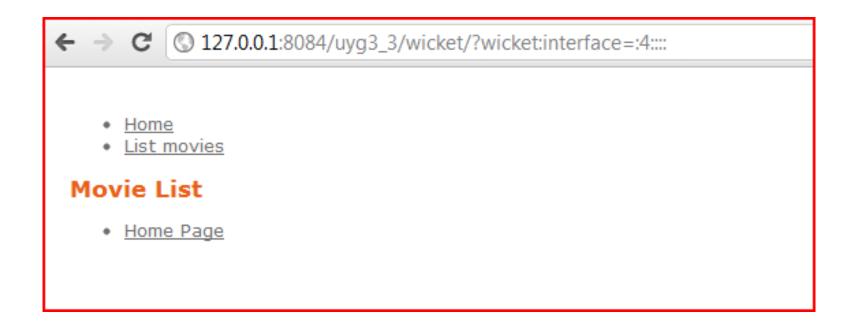
The template is used only in HomePage.

- MovieList page must be created from the same BasePage for using same template.
- Changes in MovieListPage.html.
- <div wicket:id="mainNavigation">links to common pages</div>

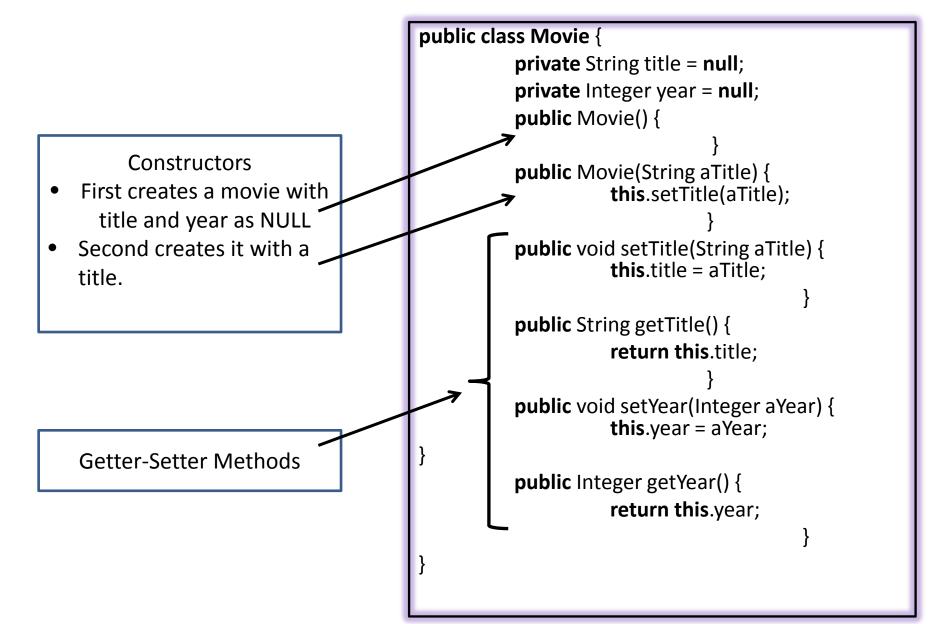
 MovieListPage.java must be inherited from BasePage.java as it is seen below.

```
public final class MovieListPage extends BasePage {
  public MovieListPage() {
    Link movieListLink = new Link("home_page") {
        @Override
    public void onClick() {
        this.setResponsePage(new HomePage());
        };
        this.add(movieListLink);}}
```





 We will implement the «movie class» and fill the «movie list page» with some in-place generated test data.



To display a list of movies,
We have to add these tags to the template.

MovieListPage.html

```
<body>
       <div wicket:id="mainNavigation">links to common pages
       </div>
       <h2>Movie List
       </h2>
       <span wicket:id="title">The Matrix
               </span> (
                      <span wicket:id="year">1999
                      </span>)
               Wicket elements
       (title, year, movie_list)
       </body>
```

We are adding the data of movies (title and year) -

- The Shining-1980
- Barton Fink -1991

```
public MovieListPage() {
   List<Movie> movies = new LinkedList<Movie>();
    Movie moviel = new Movie("The Shining");
   movie1.setYear(1980);
   movies.add(movie1);
   Movie movie2 = new Movie("Barton Fink");
   movie2.setYear(1991);
   movies.add(movie2);
    ListView movieListView = new ListView("movie list", movies) {
        @Override
        protected void populateItem(ListItem item) {
            Movie movie = (Movie) item.getModelObject();
            item.add(new Label("title", movie.getTitle()));
            item.add(new Label("year  movie getYear().toString()));
    };
    this.add(movieListView);
```

MovieListPage.java

Wicket elements (title, year, movie_list)





We will implement a class that will represent a movie collection

```
public class MovieCollection {
         private List<Movie> movies;
         public MovieCollection() {
                   this.movies = new LinkedList<Movie>();
         public List<Movie> getMovies() {
                   return this.movies;
         public void addMovie(Movie aMovie) {
                   this.movies.add(aMovie);
         public void deleteMovie(Movie aMovie)
                   this.movies.remove(aMovie); } }
```

Movie collection is created in Application.java

```
public class Application extends WebApplication {
         private MovieCollection collection;
         public Application() {
                   this.collection = new MovieCollection();
                   Movie movie1 = new Movie("The Shining");
                   movie1.setYear(1980);
                   this.collection.addMovie(movie1);
                   Movie movie2 = new Movie("Barton Fink");
                   movie2.setYear(1991);
                   this.collection.addMovie(movie2);
         public Class getHomePage() {
                   return HomePage.class; }
          public MovieCollection getCollection() {
                   return this.collection; } }
```

```
public MovieListPage() {
          Application app = (Application) this.getApplication();
          MovieCollection collection = app.getCollection();
          List<Movie> movies = collection.getMovies();
          PropertyListView movieListView = new PropertyListView("movie list", movies) {
          @Override protected void populateItem(ListItem item) {
                    item.add(new Label("title"));
                    item.add(new Label("year")); }
                     };
          this.add(movieListView);
```

We create an object from Application class without writing data of movies in MovieListPage.java.





We will create a wicket page «MovieDisplayPage» for displaying details of movies.

We will create a java class for controlling movie links «MovieDisplayPageLink».

```
public class MovieDisplayPageLink extends Link {
    private Movie movie;
    public MovieDisplayPageLink(String id, Movie aMovie) {
        super(id);
        this.movie = aMovie; }
    @Override
    public void onClick() {
        this.setResponsePage(new MovieDisplayPage(this.movie)); } }
```

MovieListPage.html

```
<body>
   <div wicket:id="mainNavigation">links to common pages</div>
   <h2>Movie List</h2>
   <a href="#" wicket:id="movie link">
         <span wicket:id="title">The Matrix</span>
         (<span wicket:id="year">1999</span>)
        </a>
      </body>
```

```
MovieListPage.java
```

```
public final class MovieListPage extends BasePage {
public MovieListPage() {
    Application app = (Application) this.getApplication();
    MovieCollection collection = app.getCollection();
    List<Movie> movies = collection.getMovies();
    PropertyListView movieListView =
        new PropertyListView("movie list", movies) {
          @Override
          protected void populateItem(ListItem item) {
            Movie movie = (Movie) item.getModelObject();
            MovieDisplayPageLink movieLink = new MovieDisplayPageLink("movie link", movie);
            movieLink.add(new Label("title"));
            movieLink.add(new Label("year"));
            item.add(movieLink);
   this.add(movieListView);
```

