Project Report

*Functionality clone of Shortfilmwindow.com*

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# Introduction:

The application of the web based short film database is a window for short film enthusiasts containing a database of short-films, directors etc. Users can easily search for films, genres and languages.

Project is stored at: <https://github.com/SSSaudagar/ListSiteClone> Branch: raw

# Application Features:

The basic functionalities of the application include:

* Searching for short-films based on Title
* Filtering based on Genre and Language
* Sorting in ascending and descending order based on Freshness, Length and Popularity
* Pagination
* Individual movie with display of different attributes
* Seamless flow in website

# Software Stack:

Following software was used for implementing given items

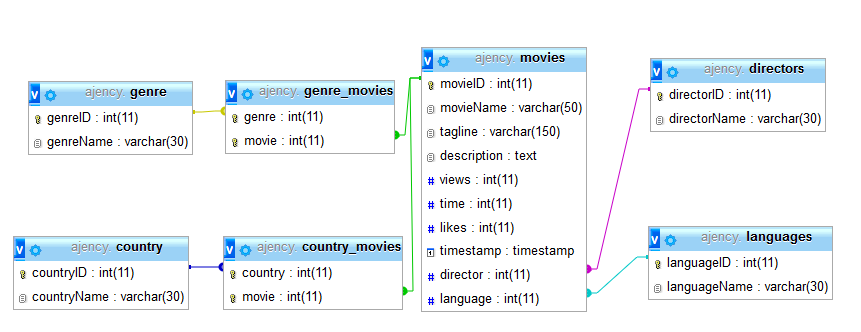
* Backend: PHP
* Database: MySQL
* Frontend: HTML, CSS, Bootstrap

# Functional Analysis

* Every film can have multiple Genres
* Every film has only one Language
* Every film has only one Director
* Popularity is number of likes (a more complex function can be generated)
* 3 movies per page for pagination. Do not allow to go to previous page if on page 1
* Time to be stored in seconds, so can be converted to HH:MM:SS format
* Show first 300 characters of description while listing

# Database Design:

## E-R Diagram



## Entities:

* Movies – stores all details of the movies
* Country – Stores country names with their ID
* Genre – Stores genre names with their ID
* Directors – Stores director names with their ID
* Languages – Stores language names with their ID

The relationships between these entity sets are self-explanatory. For example, Genre\_movies is an multi-attribute table for storing which genres belong to which movies. Directors and languages have a one-one relationship.

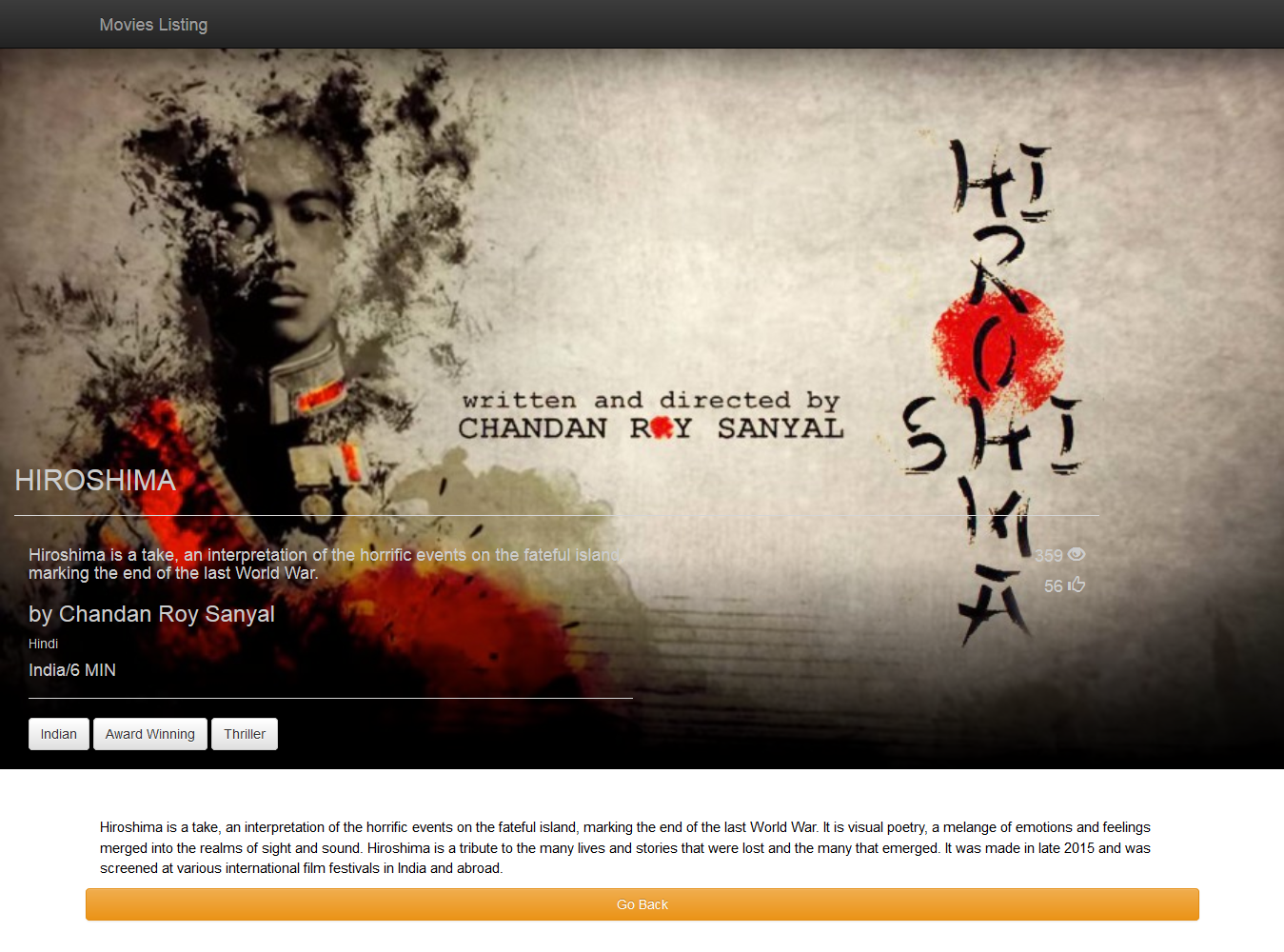
# Implementation Details

Implementation is done of 2 pages, the listing page and the details page. The connection to the database and common functions used are stored in connect/connection.php file. Listing page and details page is stored at Views/mainPage and Views/MoviePage respectively. There is proper separation of logic from frontend, logic functions are stored in files with suffix control. Index.php page directs to the listing page.

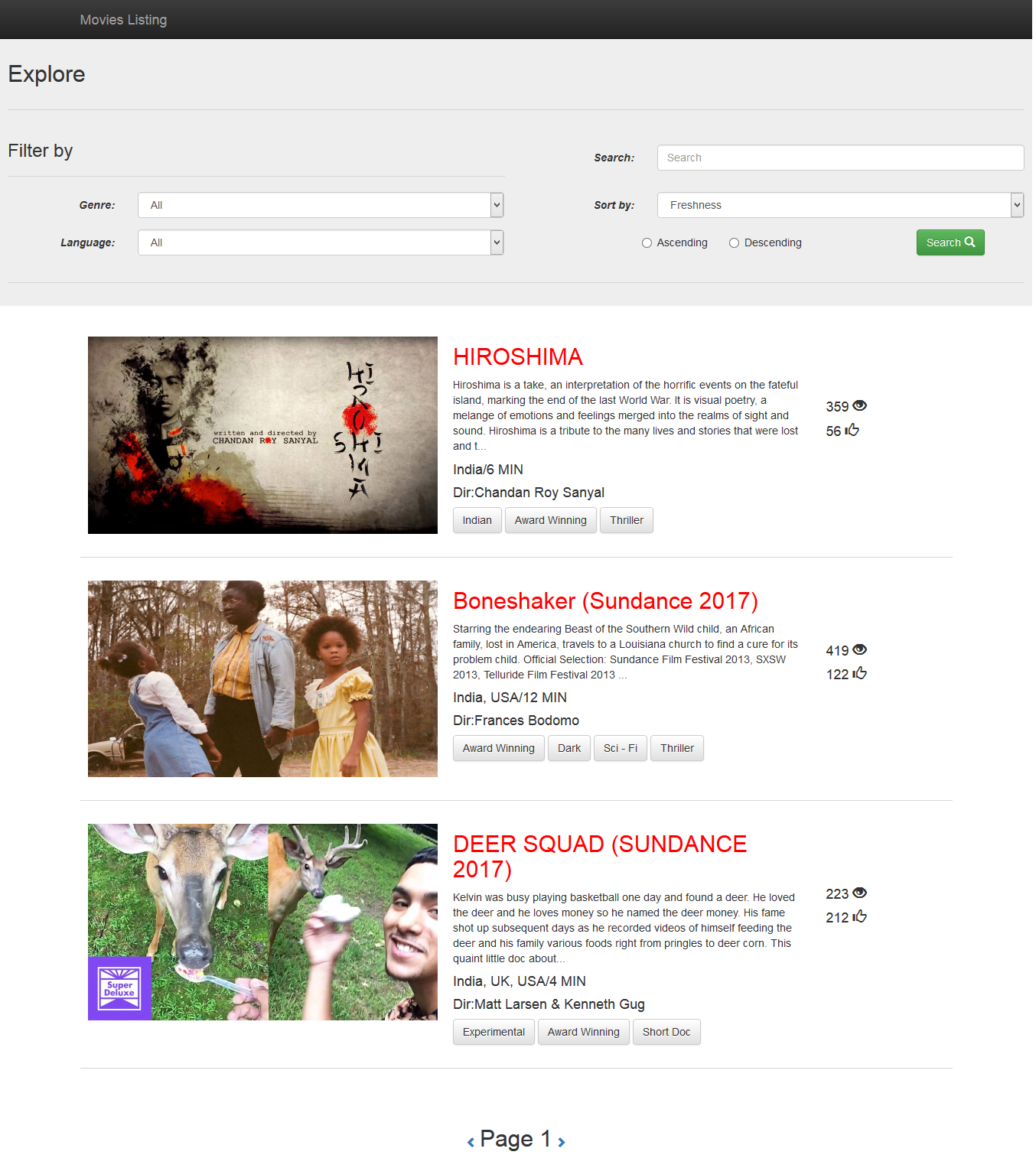
Apache Server from XAMPP package was used for testing the application. Javascript was not used anywhere in the application.

# Screenshots:

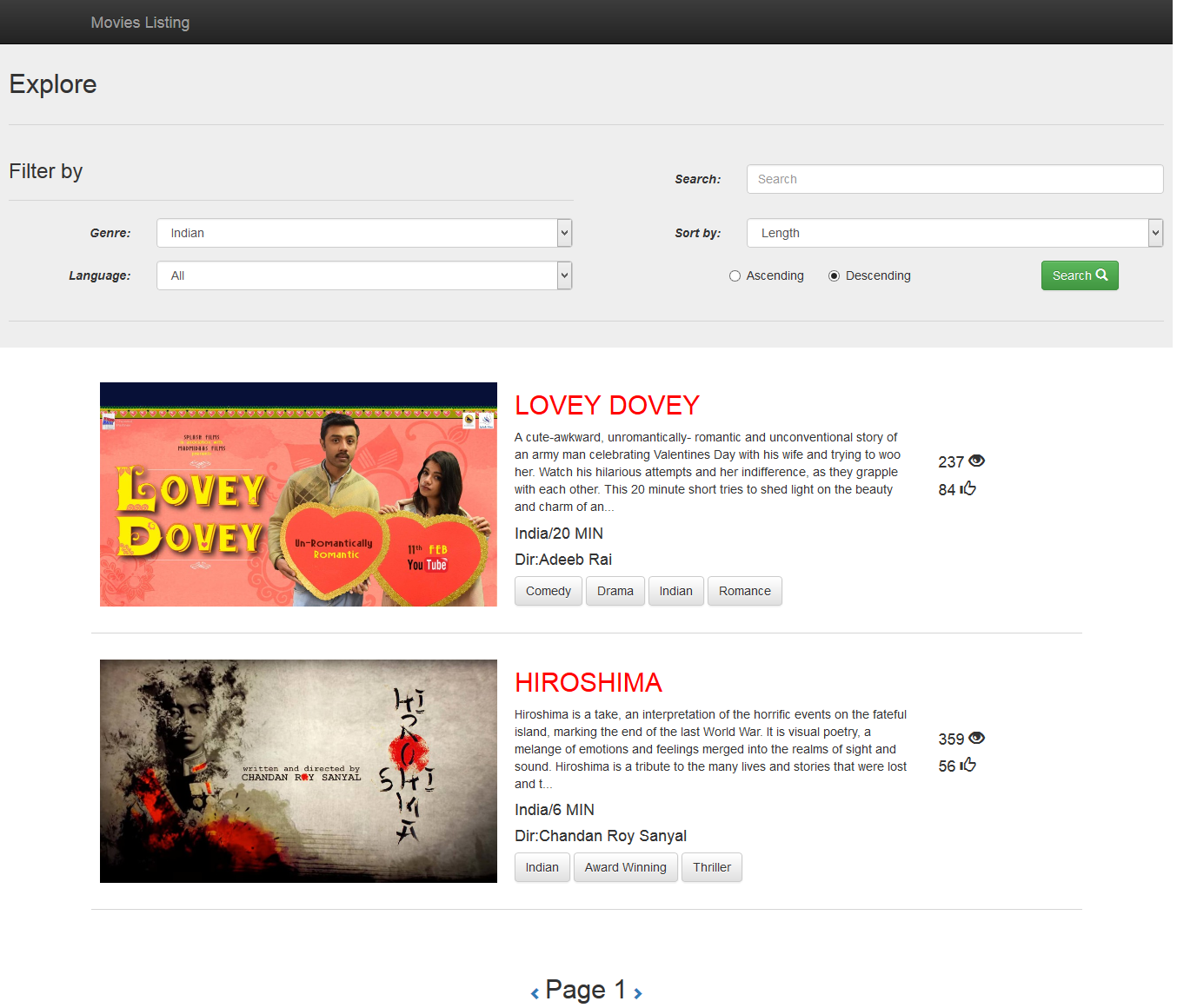
## Movie details page:



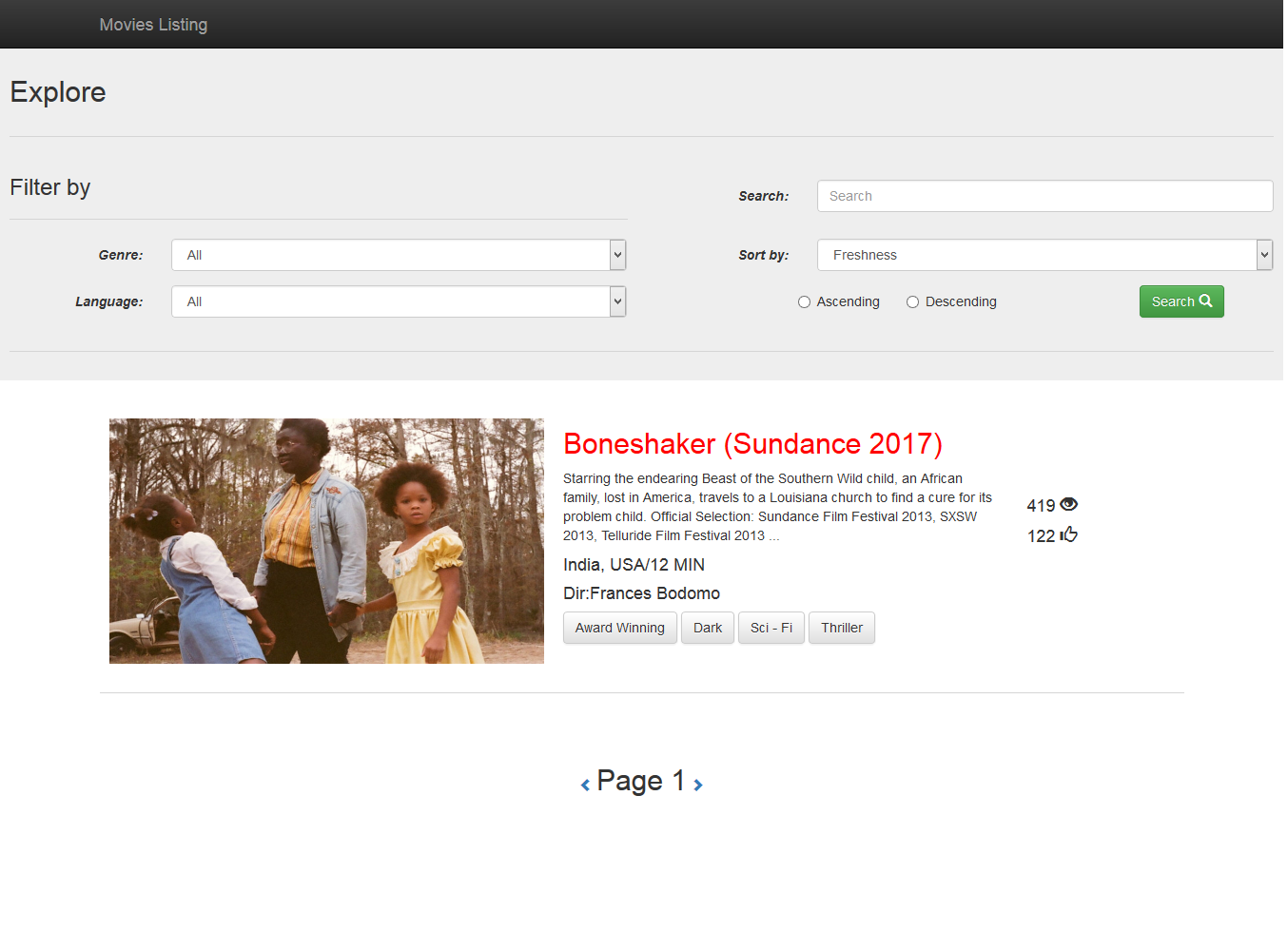
## Listing page w/o filters



## Listing page w/ filters



## Listing page with search query



# References:

* Draw.io
* <http://getbootstrap.com>
* <http://php.net/manual/en/index.php>
* <https://developer.mozilla.org/en-US/docs/Web/HTML>
* <https://www.phpmyadmin.net/>
* <https://dev.mysql.com/doc/refman/5.7/en/>
* Stack overflow