Linnéuniversitetet
Kalmar Växjö

Programming for Web 2.0

Requirement specification

Star Wars Timeline

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1 Purpose

The final project of Programming for Web 2.0 is a scrollable timeline with content of our choice. We decided to display all "Star Wars" movies in a scroll view. For each movie facts like description, title, release date, trailer, title picture, etc. are shown.

An admin can login to the dashboard via the login-page. There it is possible to create new movies, edit or delete existing ones.

The project includes creating the server side and the client side software using a Java-based application server.

2 Overall description

2.1 User Interface

In this paragraph the two different user interfaces from the perspective of the administaror and the public user are shown up.

2.1.1 Admin Interface

Use cases within the timeline, done from the Administrator and/ or from the dashboard.

Name	D1: create new movie
User	Administrator
Prerequirement	Administrator is logged in and viewing the Dashboard
Steps	1. Administrator clicks on 'New Movie' in the list on the left 2. An empty form is shown to enter the movie data 3. Administrator fills in the form and clicks 'Save' to save movie 4. The movie gets stored in the database
Special cases	If there are fields not filled or filled wrongly (checking data type) an error will be shown and the movie not saved in the database
Postcondition	The movie is now stored in the database and will be shown on the public user interface, the timeline. After submitting a new movie the site reloads, listing the movie in the list on the left

Name	D2: edit existing movie
User	Administrator
Prerequirement	Administrator is logged in and viewing the Dashboard
Steps	1. Administrator clicks on a stored movie in the list on the left 2. A form is shown with the currently stored information about the movie 3. Administrator does changes within the form and clicks 'Save' to save movie 4. The movie gets edited in the database
Special cases	If there are fields not filled or filled wrongly (checking data type) an error

	will be shown and the movie not edited in the database
Postcondition	The movie is now updated in the database and will be shown like this on the public user interface, the timeline. After editing a movie the site reloads

Name	D3: delete existing movie
User	Administrator
Prerequirement	Administrator is logged in and viewing the Dashboard
Steps	1. Administrator clicks on a stored movie in the list on the left 2. A form is shown with the currently stored information about the movie 3. Administrator clicks on 'Delete' underneath the form 4. A pop-up asks to confirm the deletion, on confirmation 5. The movie gets deleted in the database
Special cases	The Administrator cancels from the confirmation-dialogue and the movie will not be deleted
Postcondition	The movie is now deleted from the database and will not be shown on the public user interface, the timeline, anymore. After deleting a movie the site reloads, not listing the movie in the list on the left anymore

Name	D4: Logout
User	Administrator
Prerequirement	Administrator is logged in
Steps	1. Administrator clicks on 'Logout' in the top-bar on any site within the timeline website 2. The administrator will be logged out. 3. TODO was genau passiert da?
Special cases	-
Postcondition	The administrator is logged out and can't watch the dashboard anymore. The public user interface, the timeline, will load

Name	D5: Login

User	Administrator
Prerequirement	Administrator is not logged in
Steps	1. Administrator clicks on 'Login' in the top-bar on the public user interface, the timeline 2. A new website loads, holding a login-form 3. Administrator enters his email address and password 4. Administrator clicks on 'Login' underneath the form 5. Server checks input against database, the administrator gets logged-in
Special cases	If the login credentials are wrong, an error is shown and the administrator does not get logged in
Postcondition	The administrator is logged in and gets redirected to the dashboard

2.1.2 Public User Interface

Name	U1: watching trailer
User	Administrator or public user
Prerequirement	User is watching the public user interface, the timeline
Steps	1. User browses through the movies on the timeline 2. User clicks on one of the 'Trailer' buttons of a movie 3. A pop-up opens, holding an embedded YouTube video, the trailer of the movie 4. User can click play to watch 5. User can click on 'X' or besides pop-up to close the pop-up and stop the video from playing
Special cases	If there is no video stored for a movie, no video will be shown
Postcondition	-

3 Backend

We selected Spring MVC and Java Server Pages as our backend.

4 Frontend

Our frontend is managed by Twitter Bootstrap and SCROLL.JS?

5 Database

The database is supposed to hold all data needed to run the Star Wars timeline. Within the project we mainly have the information about the different movies. Additionally we need a user management and save the login information within the database.

As database management system we will use MySQL as it an open-source relational database management system which is a well-known and approved management system and easy to use.

We will create two tables: One for the movies and one for the users.

5.1 The movie database table

- id   int
- title   varchar
- rating   double
- releaseDate varchar
- director   varchar
- length   varchar
- youtubeLink varchar
- description varchar
- image   longtext

Primary key: id

5.2 The user database table

- id   int
- email   varchar
- password varchar

Primary key: id