# **MVC Application**

Here is the structure of the Application:

A screenshot of a computer program

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This is the main page:

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On the bottom-right, there is an option for what type the dataset response returned.  
Clicking on it gives 3 datatype options: JSON, XML and Text/Plain.  
Once an option is selected, the page is reloaded using the selected datatype.

A close-up of a text

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<http://localhost:8085/EPCWK-filmsWebApp/FilmController?type=json>, JSON option:

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<http://localhost:8085/EPCWK-filmsWebApp/FilmController?type=xml>, XML option:

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<http://localhost:8085/EPCWK-filmsWebApp/FilmController?type=text/plain>, Text/Plain:

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## **Pagination**

Paging controls, Next and Previous, on the bottom-left and handled by Webix in the UI:

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Next:  
A screenshot of a chat

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Previous:

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## **Filtering**

The column headers have input fields underneath.  
Typing text into them will filter the entire table by the values.  
This is also handled in the UI by Webix:

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The ‘ID’ column can use the following symbols: “<, > and =" to filter the number entered:

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While the ‘Year’ column shows a drop-down list of all the options:

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## **Insert, Update and Delete**

The buttons in the bottom toolbar pop-up a new window of the selected option.  
There are 3 options: ‘*Insert’*, ‘*Update’*, and *‘Delete’*  
Note, that the *‘Update’* and *‘Delete’* options remain disabled until a record has been selected:

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Insert:

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Update:

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Delete:

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These functions are also demonstrated in the [*Cloud Implementation*](#_Cloud_Implementation)section.

## **Small features**

Column resizing – All columns can be resized by clicking and dragging by the borders:

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Rows can also be resized by clicking and dragging the borders:

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Y Scroll on Review column cells:  
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# **RESTful Web Service**

GET – JSON:

A screenshot of a computer

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GET – XML:

A screenshot of a computer

Description automatically generated with medium confidence

GET – Text/Plain:

A screenshot of a computer

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POST:

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A screenshot of a computer

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PUT:

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A screenshot of a computer

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DELETE:

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Description automatically generated with medium confidence

# [Cloud Implementation](#_Cloud_Implementation)

This is the Database Instance running on AWS:

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Here is the FilmDAO configurations set with the Instance Endpoint:

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Here is the DB Instance being accessed from MySQL Workbench:

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The film table has already been created and populated with data on the Cloud Instance:

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## **MVC App using Cloud Instance**

I won’t evidence features such as Pagination and Filtering, that are performed in the UI and do not require sending HTTP Requests, only the CRUD functionality.

GET – JSON:

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GET – XML

A screenshot of a computer

Description automatically generated with medium confidence

GET – Text/Plain

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POST – Inserting New Record:

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A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

PUT – Updating an Existing Record

Updating the previously inserted record:

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A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

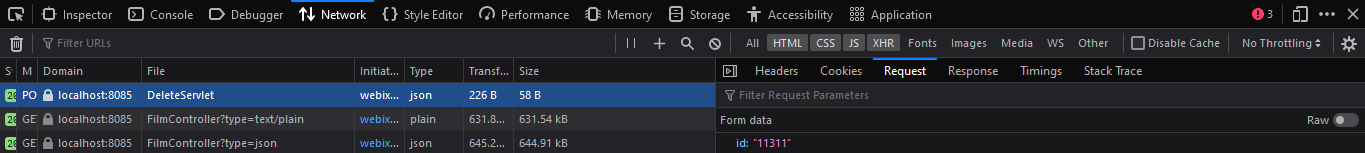
A screenshot of a computer

Description automatically generated with medium confidence

DELETE – Deleting an Existing Record:

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A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

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