Read Me

# **How to test REST API using postman**

The address to send the requests to is:

<http://localhost:8080/21435099/filmap>

## All requests

It is key to set the “Accept” header in the “Headers tab” to the data-type you are testing. They will be as follows:

* JSON – “application/json”
* XML – “application/xml”
* Text – “text/plain”

## GET requests

After setting the accept header, you now need to set the parameters in the “Params” tab.

Each GET request has two params – the search params and the page params.

In KEY, first enter one of the following:

* “id” – for searches based on ID
* “title” – for searches based on title
* “q” – for all films

Next, in the accompanying VALUE column enter the relevant search term, such as the ID or the title of the film. For all film searches, enter “af”.

Moving to the KEY column again and enter “pg”.

If you know the page number you want to query, enter that into the accompanying VALUE column, otherwise, default to “1”.

Next, click on send and you should see your results appear in the response.

## PUT, POST and DELETE requests

After setting the accept header you also need to set the “Content-Type” to “text/plain”.

Next, you will need to go to the Body header and select “raw” and make sure that the drop down to the right says “Text” – don’t change this.

After that, you need to insert a raw version of a film – templates for which are available below.

PLEASE NOTE – for PUT and DELETE requests, the ID of the film must be inserted and must exist in the database. For POST requests, the ID field should be omitted as it is not set by the user. For Delete, only the ID needs to be correct, the rest can be anything you chose.

After entering your template into body, click send and you should get a message returned if successful or not in the response.

### JSON Template:

Please note, remove [[ & ]] when using this template. Do not delete any other speech marks or punctuation.

{

"id":[[INSERT ID – DELETE LINE IF POST]],

"title":"[[INSERT TITLE]]",

"year":[[INSERT YEAR]],

"director":"[[INSERT DIRECTOR]]",

"stars":"[[INSERT STARS]]",

"review":"[[INSERT REVIEW]]"

}

### XML Template:

Please note, remove [[ & ]] when using this template. Do not delete any other speech marks or punctuation.

<film>

<director>[[INSERT DIRECTOR]]</director>

<id>[[INSERT ID – DELETE LINE IF POST]]</id>

<review>[[INSERT REVIEW]]</review>

<stars>[[INSERT STARS]]</stars>

<title>[[INSERT TITLE]]</title>

<year>[[INSERT YEAR]]</year>

</film>

### Text Template:

Please note, remove [[ & ]] when using this template. Do not delete any other speech marks or punctuation.

id&&[[INSERT ID – DELETE LINE IF POST]]%&

title&&[[INSERT FILM]]%&

year&&[[INSERT YEAR]]%&

director&&[[INSERT DIRECTOR]]%&

stars&&[[INSERT STARS]]%&

review&&[[INSERT REVIEW]]

# **How to load web application**

Once the project is imported into eclipse, a 32 bit version of tomcat 9 will need to be available as the server. I’m not sure why this is the case, but I was getting compile errors with the 1.8 JDK from the assignment starter files when trying to use a 64 bit version, with the error saying that it could not compile with a 64 bit tomcat server. If you don’t have a 32 bit tomcat 9 server available – please download from here: <https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.63/bin/apache-tomcat-9.0.63-windows-x86.zip>

After that has been installed, go to the servers tab on eclipse, right click the 32 bit tomcat 9 server and select “Add and Remove” from the dropdown. From the following window, ensure that project “21435099” is configured by selecting it from the available list and selecting “Add >”.

A screenshot of a computer

Description automatically generated with medium confidence

Once this has been done, select “Finish”.

Next, right click, again, on the 32 bit tomcat 9 server and select “Start”.

Now that the server is running, navigate to the Index.html file in the project within project explorer view on eclipse – as below:

Text

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Next, right click on Index.html and select “Run As > Run on server” and this should now appear in your default browser.

Alternatively, when the server is started, you can visit the following url: <http://localhost:8080/21435099/Index.html>