**CSCI 8350**

**Project 2: RESTful Web Service Design**

**TEAM\_2**

The project is to completely represent the functions of a movie-theatre relation using RESTful web service architecture. We have four main functionalities viz. POST(create), GET(retrieve), PUT(update), DELETE with respect to three tables: Movie, Theatre and MovieShowTimings. We are using MySQL sever on uml with database name “team2” and password “interface”.

**List of URIs:**

**main**: “http://uml.cs.uga.edu:8080/CS8350\_2\_movies/rest/”

|  |  |
| --- | --- |
| **URI** | **Description** |
| **POST** |  |
| &main/cs8350\_2/movie/createMovie | Create a New Movie. |
| &main/cs8350\_2/movie/ createTheatre | Create a New Theatre |
|  |  |
| **GET** |  |
| &main/cs8350\_2/movie/getMovie | Get Movie, Theatre and Show time details. |
| &main/cs8350\_2/movie/getMovie/title/{title} | Get Movie details by ‘title’. Takes one string parameter which is a movie title. |
| &main/cs8350\_2/movie/getMovie/genre/{genre} | Get Movie details by ‘genre’. Takes one string parameter which is a movie genre. |
| &main/cs8350\_2/movie/getMovie/rating/{rating} | Get Movie details by ‘rating’. Takes one string parameter which is a movie rating. |
| &main/cs8350\_2/movie/getMovie/theatre/{theatre} | Get Movie details by ‘theatre’. Takes one string parameter which is a theatre name. |
|  |  |
| **UPDATE** |  |
| &main/cs8350\_2/movie/updateMovie/{title}/{rating} | Updates a movie rating. Requires two params: movie title and rating to update. |
| &main/cs8350\_2/movie/updateMovie/{title}/updateTheatre/{theatre}/{showTime} | Updates a movie show timing. Requires three string params: movie title, theatre name and show timings to update. |
| &main/cs8350\_2/movie/updateMovie/{title}/updateShowTime/{theatre}/{showTime} | Assigns a movie show timings. Requires three string params: movie title, theatre name and show timings to assign. |
|  |  |
| **DELETE** |  |
| &main/cs8350\_2/movie/deleteMovie/{title} | Delete a movie object. Requires movie title.  \*Note: This will remove all show timings related to this movie. |
| &main/cs8350\_2/theatre/deleteTheatre/{name} | Delete a theatre object. Requires theatre name.  \*Note: This will remove all movies and show timings related to this theatre. |

**Examples**:

\***Note**: please replace “blank space” by “\_” underscore for all parameters.

|  |  |
| --- | --- |
| **URI** | **Example** |
| **POST** |  |
| &main/cs8350\_2/movie/createMovie | \*Payload |
| &main/cs8350\_2/movie/ createTheatre | \*Payload |
|  |  |
| **GET** |  |
| &main/cs8350\_2/movie/getMovie | \*No param required |
| &main/cs8350\_2/movie/getMovie/title/{title} | /Rings  will get movie by title as ‘Rings’ |
| &main/cs8350\_2/movie/getMovie/genre/{genre} | /action  will get all movies belonging to genre ‘action’ |
| &main/cs8350\_2/movie/getMovie/rating/{rating} | /4.5  will get all movies with trating ‘4.5’ |
| &main/cs8350\_2/movie/getMovie/theatre/{theatre} | /Ovation\_12  will get movies currently hosted by ‘Ovation\_12’ |
|  |  |
| **UPDATE** |  |
| &main/cs8350\_2/movie/updateMovie/{title}/{rating} | /Rings/4.9  Updates rating of movie Rings to 4.9 |
| &main/cs8350\_2/movie/updateMovie/{title}/updateTheatre/{theatre}/{showTime} | Rings/updateTheatre/Ovation\_12/2pm\_7pm  Assigns new show time ‘2pm\_7pm’ for movie Rings at theatre ‘Ovation\_12’  \***Note**: Format for show times is time separated by underscore. Example  12pm\_4pm\_830pm |
| &main/cs8350\_2/movie/updateMovie/{title}/updateShowTime/{theatre}/{showTime} | Rings/ updateShowTime /Ovation\_12/2pm\_7pm  Updates and adds show time ‘2pm\_7pm’ for movie Rings at theatre ‘Ovation\_12’ |
|  |  |
| **DELETE** |  |
| &main/cs8350\_2/movie/deleteMovie/{title} | /Rings  Deletes the movie Rings and shows hosted in all theatres |
| &main/cs8350\_2/theatre/deleteTheatre/{name} | /Ovation\_12  Deletes the theatre ‘Ovation\_12’ and all shows hosted by it. |