Lab 6

COMP 4711

FALL 2019

What makes internet applications stand the test of time is the foundation they were built on. If the foundation is weak, things will fall apart soon. As our application grows being organized and structured become increasingly important.

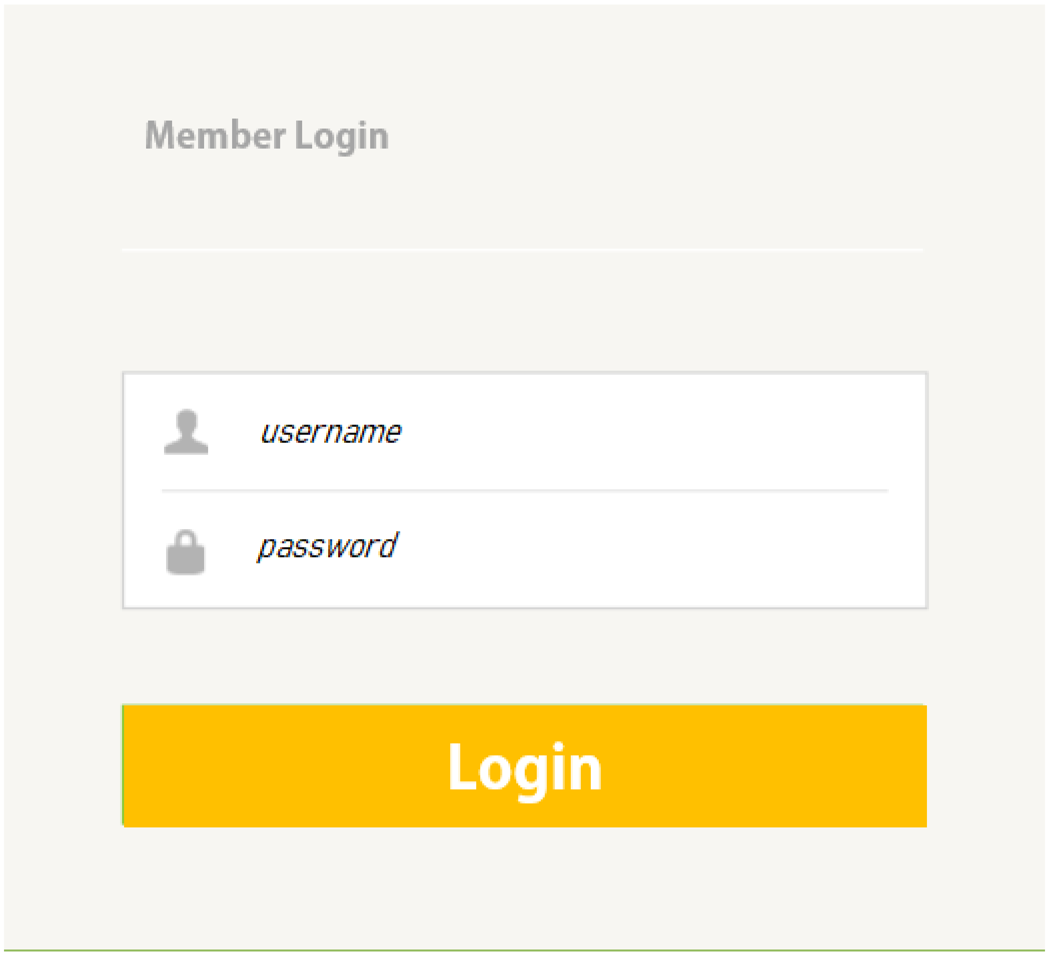
MVC is a design pattern which brings separation of concerns to internet applications. Our task in this lab is to structure our artist directory using MVC and connect to database to store and retrieve our artist data.

MODEL

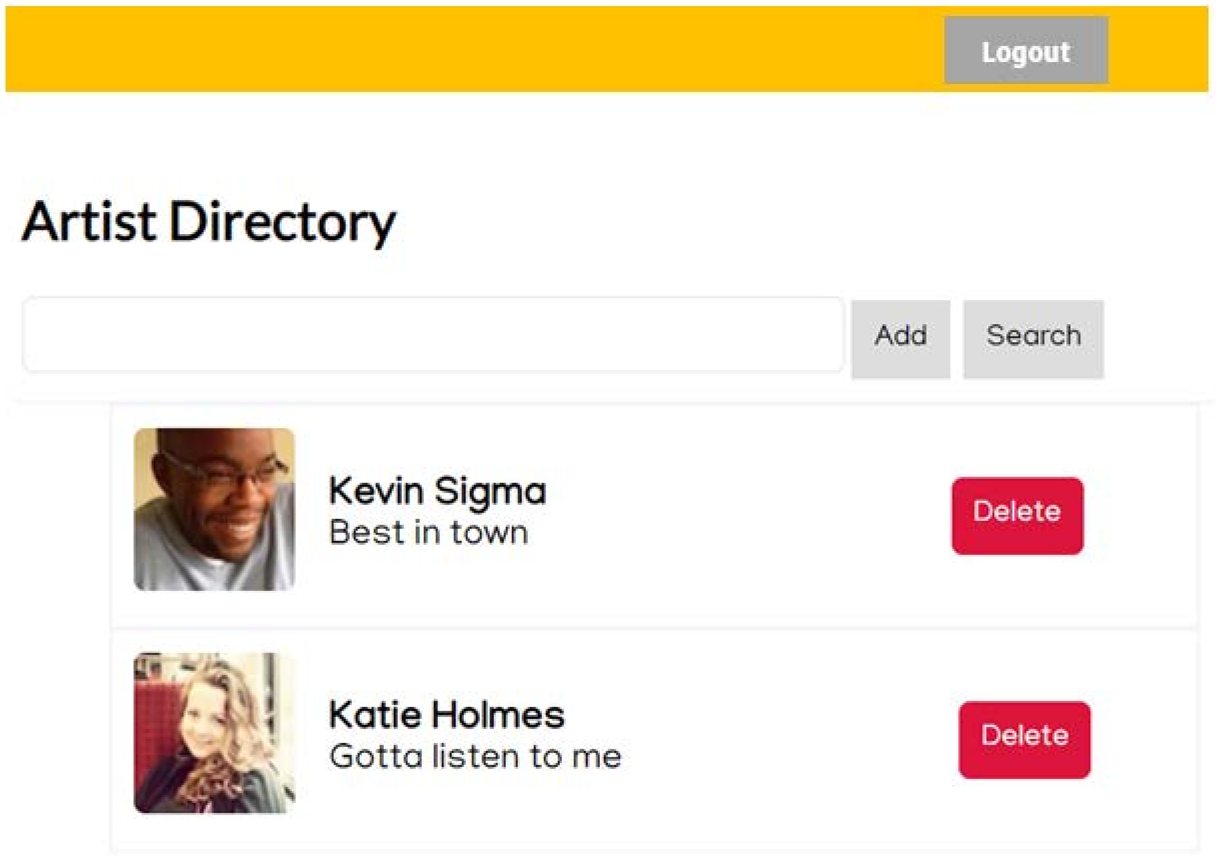
The application needs a single model (artist), create a Model which will be responsible for adding new artist(s), deleting artist(s), getting all artists and searching.

VIEW

Add a new view, called **login**, this view will need to have two input fields (username, password)
The username should be your A0 number and password = password



The **artist** view, the only new addition is the logout button at the top



CONTROLLER

We will have two controllers

LoginController :
Handle any actions on the login view (in our case successful login and redirect to the artist view)

ArtistController:
Retrieval of artist data (database), handle actions : addition, deletion, searching and logout (redirect to login view)

Note all views should be created using a templating engine (pug, handlebars etc) make use of partials, looping mechanism to iterate over a list of artists, provided by the engine. Setup routes and link them to the appropriate controller methods.

Marking guideline	
Providing a url for lab	2 Marks
Connecting to database and executing queries	2.5 Marks
Following MVC structure as described	5.5 Marks

Note (If some of the below are not followed marks will be deducted)

- Cannot use local or file Storage to retrieve artist data
- Provide a zip of all your code
- Begin from a empty list of artists
- Make use of templating engines (pug, ejs, handlebars etc)
- If you are not providing a link, provide the SQL you used to create your database/table
- Provide your A0 number while submitting the Lab (comment box)
- Week 7 Material : **node-sql-in-class-exercise-solved** can be a good starting point

It's expected that students spend some time looking into nodeJs hosting (aws/azure/heroku etc) and learn how to deploy. They come with a free plan, so you don't need to spend any dollars.