## **Client-Side Authentication**

- 1. Imported the CRUD Python module that was created for Project One.
- 2. Add the functionality in the callback routine for the instantiation of your CRUD object. User authentication was applied in the CRUD object.
- 3. Lastly, added client side function to test the dashboard connection to MongoDB.

```
from jupyter_plotly_dash import JupyterDash import dash_core components as dcc import dash_html_components as html
        import dash
        from dash.dependencies import Input, Output
        from pymongo import MongoClient
import urllib.parse
from bson.json_util import dumps
        import json
 11 #TODO: import for their CRUD module
12 from animal_shelter import AnimalShelter
 # this is a juypter dash application
app = JupyterDash('ModuleFive')
       # the application interfaces are declared here
# this application has two input boxes, a submit button, a horizontal line and div for output
app.layout = html.Div(
                       html.H1("Kennedy's Client-Server Authentication"),
                              .input(
id="input_user".format("text"),
type="text",
                      dcc.Input(
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                                placeholder="input type {}".format("text")),
                               id="input_passwd".format("password"),
                               type="password",
placeholder="input type {}".format("password")),
                      html.Button('Execute', id='submit-val', n_clicks=0),
              html.Div(id="query-out"),
#TODO: insert unique identifier code here]
 35
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                        'e6f53df6-3969-11eb-806b-b9beed39c265
# this is area to define application responses or callback routines

this one callback will take the entered text and if the submit button is clicked then call the

mongo database with the find_one query and return the result to the output div

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dutput("query-out", "children"),
               p.callback(
Output("query-out", "children"),
[Input("input_user".format("text"), "value"),
    Input("input_passwd".format("password"),"value"),
    Input("submit-val", 'n_clicks')],
[dash.dependencies.State('input_passwd', 'value')]
```

```
#TODO: Instantiate CRUD object with above authentication username and password values

instance = AnimalShelter("aacuser", "password")

data = list(instance.read("animal_type": "Dog", "name": "Lucy"}))

# note that MongoDB returns BSOM, the pyMongo JSON utility function dumps is used to convert to text

##TODO: Return example query results

to print(repr(data_json))

app

wner", "sex_upon_outcome": "Spayed Female", "location_lat": 30.3985587728477, "location_long": -97.5525050076

1, "age_upon_outcome_in_weeks": 78.5412698412698}, {"_id": "63baca5337362e905505e54f", "1": 9601, "age_upon_outcome": "2 years", "animal_id": "A736479", "animal_type": "Dog", "breed": "Basset Hound Mix", "color": "Black/
White", "date of birth: "2015-10-11", "datetime": "2017-12-13 14:23:00", "monthyear": "2017-12-13114:23:00",
"name": "Lucy", "outcome subtype": "", "outcome type": "Return to Owner", "sex_upon_outcome": "Spayed Female",
"location_lat": 30.3365567493166, "location_long": -97.2947354605263, "age_upon_outcome_in_weeks": 113.5141865

##OOUTED CONTROL OF THE CONTROL
```