**ABSTRACT:**

Assignment 1 is a very useful assignment to help student understand how to use RESTFUL API services that is including these fundamental methods (GET, POST, PUT AND DELETE). In this assignment student swill analyses the given file(favs.json). After we perform code to get the necessary data, these data will be sent to server and we are working with server via get, post, update and delete data. Students are also familiar with the term technology frontend and backend. These files are in folder: server.js, index.html, scripts.js.

**FRONT PAGE DESIGN:**

File index.html is a file used to design for assignment 1

For head title: the title of themes

For body: these paragraphs summarizing answer these questions from requirements. Besides, we provide forms that including input text and buttons to execute codes: form id\_input, id\_text. These buttons are tweet/get, tweet/post, update, delete, according to these buttons are the table with columns are “ID\_user”, “created\_at”, “tweet text”, screen\_name, “Action” and “Button” Link to JavaScript file to use jQuery and ajax by command:

 <script src="jquery-3.6.0.min.js"  >  </script>

  <script src="scripts.js">     </script>

For table, student should apply “tbody method” is linked to tbody to append the the attribute of table

      </thead>

<tbody>   </tbody>

  </table>

Back end: server.js and scripts.js

In server.js, we use the method GET/POST/PUT/DELETE.

However, we need to include express module such as using listening, express static to include the file html into current working space and using body Parse to wrap these value inputs in scripts.js

const express=require('express');

const app=express();

const fs=require('fs');

var bodyParser= require('body-parser');

app.listen(3000,()=>console.log('listening at 3000'));

app.use(express.static(\_\_dirname));

app.use(bodyParser.json());

These GET/POST/PUT/DELETE will be provided in this file:

app.get('/arrayof3Items', function(req,res){

})

app.post('/arrayof3Items',function(req,res){

})

app.put('/arrayof3Items/:id',function(req,res){

})

app.delete('/arrayof3Items/:id',function(req,res){

)

We use jQuery in Script.js file via these methods to perform select form for submitting, click on button.

$('#get-button').on('click',function() to click button link to inde.html

$.ajax with these default set up

tbodyEl.html('') to append these field of table tbodyEl.append

For put:

$('#create-form').on('submit',function(event) to create submit button and using event.preventDefault to prevent the submit page, data is stringify via JSON.stringify method

For update:

$('table').on('click','.update-button',function() to select any button update appropriate with the row then using rowEl function to wrap all fields rowEl.find('.id').text();

For delete:

$('table').on('click','.delete-button',function() to select the button on delete, using rowel method

var rowEl=$(this).closest('tr');

var id=rowEl.find('.id').text();

$.ajax method:'DELETE',

Conclusion:

Assignment 1 is very helpful assignment to help student familiar with the RESTFUL API services. Besides, the design of html is also important to display data that express the display via using the database between client and server. Therefore, front end and backend is both contribute to build success web-based service.