Due Wednesday, 26 October 2022, 11:59 PM

Late submissions: Only allowed for participants who have been granted an extension

1. Make a html page with 3 links, clicking each displays an article element with some text. Each link displays a different article element and only the selected article element is visible. The Article element will appear within 2 seconds slowly . The Article element is automatically hidden after 3 seconds.

When you use link you can use jQuery to prevent links default action: <https://www.w3schools.com/jquery/event_preventdefault.asp>

2. Create a web-page that you can use to add IoT-sensor data to table element. Table element has to have at least following information:

* Time of measurement
* Location (address or [coordinate](https://en.wikipedia.org/wiki/Geographic_coordinate_system))
* Measurement unit
* Amount
* Device

Use jQuery's document ready function to add example data to table using jQuery selectors and syntax.  
  
3. Add to previous task. "Add measurement" -button that activates Bootstraps Modal that contains a form that you can use to add data to table in question 2.  
  
4. Add a delete button to each row in a table that can be used to delete that row from table.  
  
5. Edit Modal form so that you can choose locations from drop-down list that consists of pre-determined list of locations. When user hovers on top of location's name in table, [Bootstrap Tooltip](https://getbootstrap.com/docs/5.2/components/tooltips/) must show Coordinate and address of location.

NOTICE THAT WHEN YOU ADD A NEW MEASUREMENTS TO DATABASE, EVERYONE WILL BE ABLE TO SEE ADDITIONS.

1. Continue [ADD CODE FILE HERE](https://moodle.savonia.fi/mod/resource/view.php?id=1076180&redirect=1)(updated. file was already in Moodle for you) and make a html page that can be used to search measurement data and show it in a table elements body. Measurements can be searched by location, unit and device. You can use simple form with input=text fields to get points. User can select to show data based on search criteria. Data is fetched from <http://animalhospital.freemyip.com/sensor/measurement> using jQuery Ajax with GET method. How to use service:

You can add search limiters by adding a ? after measurement and adding key=value pairs as search parameters.

http://animalhospital.freemyip.com/sensor/measurement?unit=Cels returns all measurements that has unit starting with string "Cels".

http://animalhospital.freemyip.com/sensor/measurement?locationid=1&deviceid=112232 returns all measurements that has locationid 1 and deviceid 112232.

NOTE! Fetching all the data and using JavaScript filters is prohibited. You must add data server returns.

2. Update previous: Change form so that search forms location field is drop down menu that fetches data dynamically using data from http://animalhospital.freemyip.com/sensor/location

3. Use Bootstrap Modal to send data to server <http://animalhospital.freemyip.com/sensor/measurement> using Post-method. Note that you need to add following information to server so that it works:

**timestamp**( date format similar to "2022-10-24 21:00:00.000" should work),

**locationid**(integer, same as locationid in http://animalhospital.freemyip.com/sensor/location),

**unit**(string),

**amount**(should be decimal number, integer works for sure),

**deviceid**(integer, same as deviceid in http://animalhospital.freemyip.com/sensor/device)

4. When you hover on top of any device in table, [Bootstrap Tooltip](https://getbootstrap.com/docs/5.2/components/tooltips/) must show device information from http://animalhospital.freemyip.com/sensor/device. Data must be fetched from server.

This will continue previous tasks.

1. When you hover on top of any location in table, [Bootstrap Tooltip](https://getbootstrap.com/docs/5.2/components/tooltips/) must show Coordinates and address of location. Data for tooltip must be fetched dynamically from http://animalhospital.freemyip.com/sensor/location

2. Add a button to each row that can be used to delete measurement. Deleting measurements can be done by using delete method with jQuerys ajax command to address http://animalhospital.freemyip.com/sensor/measurement/{id}, where {id} is the same value as measurementid. Data in table must be removed when deleted.

3. Add button to each row that opens a Bootstrap modal for editing and fetches data using Get method from http://animalhospital.freemyip.com/sensor/measurement/1 or http://animalhospital.freemyip.com/sensor/measurement?measurementid=1 and data is added to form fields.

Hint! You can either modify existing modal or create a new modal for editing

4. When you click previous tasks save button data must be updated to server and data in table element must be updated also. When you update data use PUT-method  address http://animalhospital.freemyip.com/sensor/measurement/{id}, where {id} is the same value as measurementid. When you update data you are not allowed to change measurementid