

# IT3030 Programming Applications and Frameworks 3<sup>rd</sup> Year, 1<sup>st</sup> Semester

# Assignment 2020 S1 – Practical Test

Submitted to

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## GitHub Public Repo –

 $\frac{https://github.com/ChamelaAluthgedara/HelthCare-PAF-DoctorManagement-PracticalTest.git}{PracticalTest.git}$ 

### View

- Form with ID.
- Input elements with IDs.

- > Save button (correct type)
  - Hidden element (for save operation)

- Alerts
  - o notify.js
    <script src="notify.js"></script>

### Java Script

```
<script src="https://code.jquery.com/jquery-3.5.0.js"></script>
<script src="script.js"></script>
<script src="notify.js"></script>
```

### Form Numbers Length validation

### **Controller**

> Save button click handler (event, selector, function)

```
$("#submitDoctorBtn").on("click", function(e) {
    let data = {
          docID: $($("#newForm")[0].docID).val(),
          docFname: $($("#newForm")[0].docFname).val(),
docLname: $($("#newForm")[0].docLname).val(),
          docPosition: $($("#newForm")[0].docPosition).val(),
          docFee: $($("#newForm")[0].docFee).val(),
          docAddress: $($("#newForm")[0].docAddress).val(),
          mobileNo: $($("#newForm")[0].mobileNo).val(),
          hosID: $('#hosID :selected').text()
    console.log($('#hosID option:selected').text());
        var status = validateItemForm();
       if (status != true)
           $.notify(status, "error"); //show error message
       if(status == true){ //field validation
           createDoctor(data);
        $("#newForm").trigger("reset");
        e.preventDefault();
 });
```

Alerts

```
$.notify(status, "error");
```

- > Save button click event handling process.
  - Initialize
  - Use model for validation
  - Show status messages

```
function validateItemForm()
{
    if ($("#docID").val().trim() == "")
        {
            return "Empty Field Detected: Doctor's ID.";
        }
        if ($("#docFname").val().trim() == "")
        {
            return "Empty Field Detected: Doctor's Firstname.";
        }
        if ($("#docLname").val().trim() == "")
        {
            return "Empty Field Detected: Doctor's Lastname.";
        }
        if ($("#docPosition").val().trim() == "")
            {
                 return "Empty Field Detected: Doctor's Position.";
        }
        if ($("#docFee").val().trim() == "")
        {
                 return "Empty Field Detected: Doctor's Fee.";
        }
        if ($("#docAddress").val().trim() == "")
        {
                 return "Empty Field Detected: Doctor's Address.";
        }
        if ($("#mobileNo").val().trim() == "")
        {
                 return "Empty Field Detected: Doctor's Mobile Number.";
        }
        return "Empty Field Detected: Doctor's Mobile Number.";
    }
}
```

### > DC (AJAX) for Save

- RESTful URL (to the service)
- Correct method/type
- Correct data

```
function createDoctor(data) {
   console.log(data);
   $.ajax({
      url: 'doctorAPI',
      method: 'POST',
      dataType: 'json',
      data: data,
      success: function(state) {
       console.log(state);

      var stateGot = state;

      if(stateGot > 0){
            getRegisteredDoctors();
            $.notify("Data Successfully Submitted.", "success");
      }
      if(stateGot == 0){
            $.notify("Doctor ID already Extist.", "error");
      }
    }
   }
}
}
```

Alerts

```
$.notify("Data Successfully Submitted.", "success");
Or
$.notify("Doctor ID already Extist.", "error");
```

➤ Update button click event handler (event, selector, function)

• Form validation Alert

```
$.notify(status, "error");
```

- ➤ Update button click event handling process
  - Read ID
  - Read data
  - Assign to the form

```
// ----- Buttons Initialization-----
function loadButtons() {
    $(".editTut").click(function(e){
        getSingleDoctor($($(this)[0]).data("docid"));
        $("#submitDoctorBtn").hide();
        $("#updateDoctorBtn").show();

    $("#docID").prop("readonly",true);
        e.preventDefault();
```

Alerts

```
$.notify("Data Successfully Updated.", "success");
```

➤ Remove/Delete button click handler (event, selector, function)

- > DC (AJAX) for Remove/Delete
  - RESTful URL (to the service)
  - Correct method/type
  - Correct data

```
function deleteDoctorDetails(id){
  console.log(id);
  var data = {id};
    $.ajax({
        url: 'doctorAPI',
        method: 'DELETE',
        dataType: 'json',
        data: data,
        success: function(data) {
            console.log(data);
            getRegisteredDoctors();
        $.notify("Doctor Details Delete Completed.", "warn");

        $("#updateDoctorBtn").hide();
        $("#submitDoctorBtn").show();
      }
};
```

Alerts

```
$.notify("Doctor Details Delete Completed.", "warn");
```

### **Client-Model**

- > Form validation function
  - Validate elements
  - o Return proper error message
  - o Return true if valid
  - o Completeness

```
* Servlet implementation class DoctorAPIController

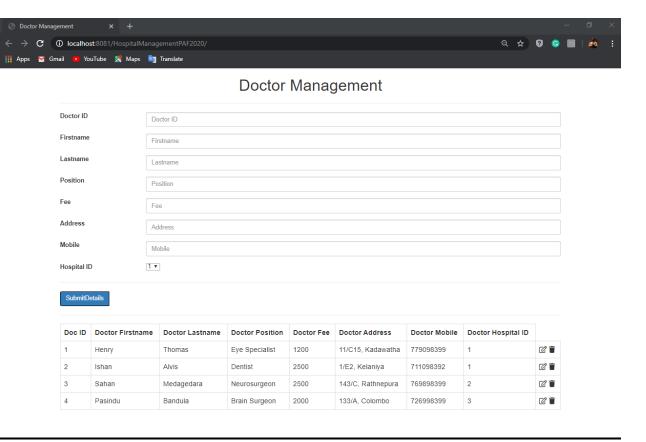
*/
WebServlet("/doctorAPI")
public class DoctorAPIController extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public DoctorAPIController() {
        super();
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
    {
        //Getting Registered Hospitals
        DoctorService d = new DoctorService();
        Gson gson = new Gson();
        List(Object> hostpitals = new ArrayList(Object>();
        for( Integer i : d.getAllHospitals()) {
            hostpitals.add(i);
        }
        PrintWriter out = response.getWriter();
        out.plush();
        out.plush(s);
        out.close();
}
```

```
protected void doDelete(HttpServletRequest request, HttpServletResponse response)throws ServletException, IOException
{
    DoctorService repo = new DoctorService();
    Map<String, String> docDetails = getParasMap(request);
    int deleteID = Integer.parseInt(docDetails.get("id").toString());

    System.out.println("I'm In Delete API: " + deleteID );
        repo.kill(deleteID);
        response.getWriter().write("true");
}
```





### **Doctor Management**

