IT3030 Programming Applications and Frameworks

Assignment 2020 S1 – Practical test

- **Focused Learning Objectives**: LO1-5
- **Weightage**: 20%
- **Deadline**: 12th week – 03rd May 2020
- **Submission**: As explained in the text

Scenario

HelthCare is a hospital management system where the registered users can make appointments with the registered doctors who visit the registered hospitals. The users can even make the payments for the appointments online.

Things to do

- Take the RESTful web service you developed for the group assignment.
- Develop a Form and Grid Rich Web-based Application to perform CRUD operation on your selected resource by communicating with your RESTful web-service.

Things to concern

- Follow the practical sheet 10 (You may complete the practical sheet 09 before attempting 10).
- It is ok to develop a Rich Web-based Application with server-side components, without communicating with a web service.
    - However, you have to use the model classes of the web-service you developed for the group assignment.
- It is ok to slightly modify your web-service/server-model in order to support performing CRUD operations via a Form and Grid based View.

Project management

- All the documents, source, and related artefacts should be maintained in a public repo.
    - Use GitHub. There should be a comprehensive commit log from the beginning of the project where all the members have committed.
    - **The last commit should be on or before the submission deadline**.
    - If your repo has commits after the submission deadline, your submission will be disqualified and you will have ZERO mark.
    - Keep the exported BD(s) in the repo.

Technology Stack

- **RESTful web service**: Java – JAX-RS (Jersey) on Tomcat
- **DB**: MySQL
- **View**: HTML, CSS, Bootstrap (optional), Form and Grid UI design pattern
- **Client-components**: jQuery, Ajax for DC.
- For any other technology used, marks will be reduced for not meeting the requirements.

Submission

- A submission link will be created in course web.

- Submit a clickable link to your GitHub repo.

Marking scheme

Criteria	Marks Out of 60
View	**10**
Form with ID	2
Input elements with IDs	2
Save button (correct type)	2
Hidden element (for save operation)	2
Alerts	2
Controller	**42**
Save button click handler (event, selector, function)	6 (2+2+2)
Save button click event handling process. 　　Initialize 　　Use model for validation 　　Show status messages	 2 2 2
DC (AJAX) for Save 　　RESTful URL (to the service) 　　Correct method/type 　　Correct data	 2 2 2
Update button click event handler (event, selector, function)	6 (2+2+2)
Update button click event handling process 　　Read ID 　　Read data 　　Assign to the form	 2 2 2
Remove/Delete button click handler (event, selector, function)	6 (2+2+2)
DC (AJAX) for Remove/Delete 　　RESTful URL (to the service) 　　Correct method/type 　　Correct data	 2 2 2
Client-Model	**8**
Form validation function 　　Validate elements 　　Return proper error message 　　Return true if valid 　　Completeness	 2 2 2 2