

Assignment 2 (Individual)

2022 October

Guidelines

- Marks 15
- VIVA to score marks

Submission	Date
Final Submission + VIVA (On campus)	17- 10- 2022

Problem description

This assignment introduces a web-based Student Management System, which automates all the manual aspects of the conventional way of managing student records. Its friendly WEB UI allow users to handle students in a convenient, efficient, and simplified manner. The system has a REST API to manage the resources in the backend.

REST API

- Insert Student
- Show all
- Find Student by SID
- Find Students by name
- Find Students by center
- Find Students registered in a specific Semester
- Find Students by specific cgpa
- Update by SID
- Delete by SID
- Delete by Email

Student record format (JSON Array)

```
{  
  "firstName": "Saman",  
  "lastName": "John",  
  "dateOfBirth": "1998-06-23",  
  "email": "saman@gmail.com",  
  "sid": "IT17236545",  
  "center": "Kandy", *Could be Kandy, Jaffna and Colombo  
  "semester": 1, *Could be 1 or 2  
  "cgpa": 3.5  
}
```

Assignment requirements

Create a Website to fulfil following requirements

- ☐ Contains 3- 5 pages
- ☐ Implement both Client side and Server-side
- ☐ Integration of the following

Front End (HTML+CSS)

jQuery (5 different uses in the site)

Ajax (the data fetch from server)

JSON for communication

Back End (REST API)

Grading

	Exemplary [70 - 100]	Competent [40 - 70]	Needs Work [0 – 40]
Organization and Structure [3 marks]	The site is well structured and has a clear purpose and a theme that is carried out throughout the site.	The site has a clearly stated purpose, and some structure is visible, but some elements that do not seem to be related to it.	The site lacks a purpose and theme.
Usability [4 marks]	Links for navigation are clearly labelled, consistently placed, allows the reader to easily move from a page to related pages.	There is a navigation labelled but there are few broken links.	Some links do not take the reader to the relevant pages as described. A user typically feels lost.
Application of different frameworks [8 marks]	The student has used all the stated technologies and frameworks in the site.	The student has used some technologies and frameworks in the site.	There is no evidence that student has applied any technology or framework in the site
Technical Aspects [VIVA 100]	The student has a thorough understanding of the material included in the site and where to find additional information.	The student has a good understanding of the material included in the site with some gaps.	Student did not appear to learn much from this project. Cannot answer most questions about the content