

SE102.3Web Application Development 20.2 UGC/VU

Coursework

Module Leader: Chaminda Wijesinghe

You are required to develop a full functional web site according to the below instructions.

The maximum limit for team members is up to five. All projects need to be implemented through a GitHub repository. Each students' individual contributions to the project will be evaluated through GitHub. There should be at least 15 commits from each student. The repository should be updated at the time of making any updates in the project and projects uploaded at the last stage as a bulk will not be considered. At the end of the project the GitHub link should be uploaded to the **NLearn**.

The website should be related to one of the seventeen Sustainable Development goals. The Sustainable Development Goals or Global Goals are a collection of 17 interlinked global goals designed to be a "blueprint to achieve a better and more sustainable future for all". The SDGs were set in 2015 by the United Nations General Assembly and are intended to be achieved by the year 2030.

By referring [Sustainable Development Web \(https://sdgs.un.org/goals\)](https://sdgs.un.org/goals) you can get more details. And there are seventeen goals in Sustainable Development goals set. So, you need to choose one of them and develop a website to achieve or help to achieve the goal.

You can develop this web application using HTML, CSS, JavaScript, PHP, MySQL, and bootstrap, Semantic UI, or other related frameworks. And you need to have knowledge of every part you have implemented. For example, if you used Bootstrap, you should explain those parts, including the source code. Must have implemented all CURD (CREATE UPDATE READ DELETE) operations in your web application.

Database can be stored in MySQL. JavaScript, (client-side scripting) can be used to include validations into the website.

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Testing of the Application

Critically test and review the application including functionality testing, Acceptance testing, compatibility testing, functionality, and error detecting

Functionality testing

- check whether all the links, and buttons are working
- all validations in form fields are working properly
- there must be not any dead page or invalid outputs

Usability testing

- It is to be checked navigation across the website is proper, check whether we can reach home/index page from any of the web pages
- Check whether the website is easy to use and interact
- Font size, font color and images across the website are easy and convenient to use
- The content within the web site must attract and appeal the users of this web site.
- Check if the web app is fully responsive for any screen.

compatibility test

- check whether the application can be run across multiple browsers
- it must be operable on various devices like mobile phones, notebooks, and computers

Marks allocation

40 % of the total marks will be given for the assignment.

Submission and the deadline

A link to the project in GitHub should be uploaded to the LMS one week before the exam begin date.