

Web Site Development Project

Computer Science and Information Technology
School of Mathematical & Computational Sciences
Massey University

1. Introduction

This project requires you to design and develop a web site demonstrating mastery of the web development skills and concepts learned in this course. The project must be individually designed and implemented by you.

As part of your submission, include a report with screenshots and Video Demonstrating. Both report and video provide clear Instructions on website usage, explain models, CSS, JavaScript creation, and implementation the features like search, sorting, etc. Video can be submitted as a direct upload onto Stream or as a link to a video hosting site e.g. BiliBili, included in your report.

2. Requirements for the Website

Your website must have the following:

2.1 Website

1. Clear separation of Model, View, and Controller.
2. Custom Models created by you.
3. Implement functions for Searching, Filtering, Sorting, or Paging.
4. A home page and a minimum of two additional content pages, consistently formatted and containing content relevant to your intended audience. Linked images and PDFs do not count towards this page requirement.
5. Your page should be formatted using a custom external CSS file, rather than the default CSS.

2.2 Web Pages

Each Web page must:

1. Include appropriate page titles and meta-tags.
2. Contain links to both HTML5 & CSS3 validators: [W3C Validator API](#), [CSS Validator](#)
3. Feature an email link (this can be fictitious; personal email addresses are not required).

3. Project Planning

3.1 Initial Proposal

Before developing your website, consider the following:

1. What is the site's purpose?
2. What do you aim to accomplish with the website?
3. Who is your intended audience?
4. What opportunity, problem, or issue is your site addressing?
5. What type of content will your site include?

3.2 Analysis

During site development, consider the following:

1. **Web Site Goal**
2. **Information needed**
3. **Site Map**
4. **Page Wireframe:** Tools like [10 Free Wireframing Tools for Designers](#) can be useful.

4. Report

Screenshots are required to incorporate in the report.

1. **Accessing the Website:** It provides guidance on how to access the website.
2. **Website Layout:** It explains the main sections of the site.
3. **Utilizing Website Features:** It explains how to use the various features of the website.
4. **Technical Demonstrations:** This part of the report delves into the technical aspects of the website. It includes:
 1. Models: Explanation of the models created.
 2. CSS: Overview of the CSS used for styling the website.
 3. JavaScript: Explanation of the JavaScript code used on the site.
 4. Feature Implementation: Briefly Explanation how key features like search and sorting functions were implemented.

Each of these technical aspects should be explained in its own subsection, with screenshots. The language should be clear and concise.

5. Submission Requirements

1. Materials to submit via Stream:

- A report as a Word document.
- Video presentation – Include the URL for your hosting site for your video presentation in your report or upload the video directly onto Stream if you prefer not to use a hosting site.
- ZIP archive containing all the code for your website.

6. Assessment Rubric

Assessment Component	Not Done (0%)	Very Poor (20%)	Poor (40%)	Good (60%)	Very Good (80%)	Excellent (100%)
Separate Model, View, and Controller (10 marks)	Not Done	Only View	Only view with some C# code	View and Controller are separated	Model and View are separated	Separate Model, View, and Controller
HTML Pages (10 marks)	Not Done	Very Poor	Some links do not work	Successful completion of the website with at least 1 page with all the working links	Successful completion of the website with at least 2 pages with all the working links	Successful completion of the website with at least 3 pages with all the working links
Implemented the Searching, Filtering, Sorting, or Paging Functions (30 marks)	Not Done	Very Poor	Poor	Successfully implemented one of the functions	Successfully implemented two of the functions	Successfully implemented three of the functions
CSS (10 marks)	Not Done	Very Poor	Poor	Overwrite CSS Style Provided by MVC Template	Overwrite CSS Style Provided by MVC Template Beautifully	Overwrite CSS Style Provided by MVC Template Excellently
JavaScript (10 marks)	Not Done	Very Poor	Poorly use of JavaScript	Good use of JavaScript	Very Good use of JavaScript	Excellently implemented JavaScript

Assessment Component	Not Done (0%)	Very Poor (20%)	Poor (40%)	Good (60%)	Very Good (80%)	Excellent (100%)
Create your own models (10 marks)	Not Done	Very Poor	Poor	Good	Created your own one model class	Created your own two or more model classes
Ease of Use (10 marks)	Very hard to use	Hard to use	not very easy to use	Not intuitive to use	Acceptable	intuitive / immediate ease of use
Video Presentation (5 marks)	Not Done	Very Poor	Poor	Not all aspects presented	Well-presented with a few missing aspects or a few aspects not demonstrated during the presentation.	Well-structured and well-presented with excellent use of language. Covers all the aspects and explanation are short, precise and complete.
Report (5 marks)	Not Submitted	Very Poor	Poor	Poorly written or organised/structured or incomplete, missing many aspects.	Well-written. Only minor or few items missing. Only minor flaws in use of language or report organisation.	Well-structured and Well-written with excellent use of language. Covers all aspects and explanation are short, precise and complete
Publish your website (optional)						A live link to the homepage of your deployed website. URLs all work well. This is recommended if you can access Microsoft Azure subscription. But you won't lose marks for not doing this.