

ECS522U GUI COURSEWORK 2022/23

ASSIGNMENT 2: IMPLEMENTATION (20%)

In this assignment, you will implement your Weather App according to the requirements and design specifications you developed in Assignment 1.

The assignment is worth 20% of the overall module assessment.

The assignment will be assessed on the basis of:

- The design (33 marks): usability and user experience;
- The implementation (34 marks): code quality and functionality;
- Extension (33 marks): interesting extensions beyond the scope of the boilerplate provided.

Three submissions will be required for this assignment:

- A video (see Section 1 below)
- Your code (see Section 2 below)
- A pdf document with your Contributions section

Do not forget to include a Contributions section. It will be assumed that each group member has contributed equally to the assignment unless otherwise stated in the Contributions section. The Contributions section must include:

- ***A brief description of what each group member has contributed***
- ***If not all group members have contributed equally to the assignment, a percentage contribution between 0 and 100 should be indicated for each group member.***

SECTION 1: VIDEO

Produce a short video (5-10 mins) to show your system running and to explain the features of the interface. The video must explain what the system does, including details of any interesting extensions you have implemented, and how it meets the needs of your primary stakeholders. Your video should also discuss the changes you made to the boilerplate provided, or how you went about the implementation from scratch if you elected not to use the boilerplate.

Note that:

- The video format MUST be mp4 – otherwise, we may be unable to play your video and significant marks will be lost.
- The length of the video must not be shorter than 5 mins or longer than 10 mins – marks will be deducted if the video is shorter or longer than required.

- You can use whatever method you wish to record the video, but it must be of sufficiently good quality and resolution to be able to see the interface details and hear the commentary clearly – marks will be deducted if the quality is insufficient to see or hear important details.
- Links to videos are NOT permitted and you MUST check that the uploaded video is viewable and audible – if a video that is not viewable or not audible is uploaded, significant marks will be lost.
- The video must NOT show or discuss any details of your code, eg how to install dependencies, how to run the code. Instead, your code must be properly commented, so that it is self-explanatory.

SECTION 2: CODE

You must submit the code that you have generated for this app, including the style sheets.

Note that:

- You can create a zip file of your src folder.
- You do NOT need to include any dependencies or additional libraries that you used.
- Your code MUST be properly commented – marks will be deducted if your code is not self-explanatory.
- You MUST include a readme file with instructions of how to run your code (including how to install any dependencies or additional libraries) – if this is not provided, we will be unable to run your code and you will therefore receive ZERO marks for the implementation and any extensions.
- The code you submit MUST be the same code that renders the app you demonstrate in your video – significant marks will be deducted for any discrepancies.

NOTE THAT THE MAXIMUM QMPLUS SUBMISSION SIZE FOR THIS ASSIGNMENT (INCLUDING VIDEO, CODE AND CONTRIBUTIONS SECTION) IS 50MB. PLEASE ENSURE THAT YOU ARE NOT GOING TO EXCEED THIS LIMIT, AS ALTERNATIVE SUBMISSION METHODS WILL NOT BE PERMITTED.

ASSIGNMENT 2 MARKING CRITERIA

	UNSATISFACTORY	SATISFACTORY	VERY GOOD / EXCELLENT
DESIGN	0-10 <ul style="list-style-type: none"> Design does not meet the stakeholder group's needs and requirements, or established needs / requirements are not credible Design delivers weather data in a way that is inappropriate for the chosen stakeholder group Design has major usability problems relating to readability, interaction, ease of use or colours / fonts / icons Design needs major aesthetic improvement 	11-20 <ul style="list-style-type: none"> Design matches some, but not all, of the stakeholder group's needs and requirements, or established needs / requirements are not entirely credible Design delivers weather data in a way that is only partially appropriate for the chosen stakeholder group Design needs minor usability improvements relating to readability, interaction, ease of use or colours / fonts / icons Design needs some aesthetic improvement 	21-33 <ul style="list-style-type: none"> Design matches the stakeholder group's needs and requirements, and established needs / requirements are credible Design delivers weather data in a way that is appropriate for the chosen stakeholder group Design has no usability problems – it is readable, the interaction is good, it is easy to use, and colours / fonts / icons are appropriately chosen Design is aesthetically excellent
IMPLEMENTATION	0-10 <ul style="list-style-type: none"> Code does not run Code is not understandable Components are not used No code comments CSS absent or entirely inappropriate, ie not executing currently because the wrong rules were implemented DOM is not understood 	11-20 <ul style="list-style-type: none"> Problems running the code, or the code contains errors Code is somewhat understandable Components are used but not appropriately Lack of code commenting, or comments do not really explain what is going on CSS is used, but not appropriately, ie not from an external style sheet DOM is only partially understood 	21-34 <ul style="list-style-type: none"> Code runs flawlessly Code is understandable Components are used appropriately Code comments show rigorous thinking and sound reasoning CSS is used to position and style items from an external style sheet DOM is very well understood

EXTENSION	0-10 <ul style="list-style-type: none"> • Extension entirely lacks originality • Extension entirely lacks ambition • Group is entirely unable to explain how they have taken the extension beyond the boilerplate • Extension choice is inappropriate for the stakeholder • Group cannot demonstrate at all how they have used their available skills to extend the app 	11-20 <ul style="list-style-type: none"> • Extension lacks some originality • Extension lacks some ambition • Group is not able to explain fully how they have taken the extension beyond the boilerplate • Extension choice is not entirely appropriate for the stakeholder • Group cannot demonstrate entirely how they have used their available skills to extend the app 	21-33 <ul style="list-style-type: none"> • Extension shows originality • Extension shows ambition • Group can explain how they have taken the extension beyond the boilerplate • Extension choice is demonstrably appropriate for the stakeholder • Group can demonstrate how they have used their available skills to extend the app
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