Milestone 2: Marking Criteria / Base Requirements

Bring your own idea(s) to life, based on providing value to users to address a specific real or imagined need. Use the relevant project assessment criteria as a guide to the minimum required functionality.

Learning Outcomes		Check	Comments
LO1	Design, develop and implement a dynamic front-end web application using HTML, CSS and JavaScript	ОК	
LO2	Implement front-end interactivity, using core JavaScript, JavaScript libraries and/or Application Programming Interfaces (APIs)	ОК	
	Test an interactive front-end web application through the development, implementation and	ОК	
LO3	deployment stages	OK .	
LO4	Deploy an interactive front-end web application to a Cloud platform	ОК	
LO5	Demonstrate and document the development process through a version control system such as GitHub	OK	

LO1	Design, develop and implement a dynamic front-end web application using HTML, CSS and JavaScript	ок	
1.1	Design a web application that meets accessibility guidelines, follows the principles of UX design and presents a structured layout and navigation model, and meets its given purpose	х	Reviewed with mentor, peers and close contacts. Deemed as acceptable
1.2	Design interactivity for a web application that lets the user initiate and control actions, and gives feedback	х	Done - alerts and interactive responses using JavaScript in the guided session
1.3	Write custom JavaScript, HTML and CSS code to create a responsive front-end web application consisting of one or more HTML pages with significant interactive functionality	х	Done
1.4	Write JavaScript code to produce relevant responses to user actions	х	Done
1.5	Implement an interactive web application that incorporates images or graphics of usable resolution, legible, unobscured text, consistent styling, undistracted foregrounds	х	Done

LO2	Implement front-end interactivity, using core JavaScript, JavaScript libraries and/or Application Programming Interfaces (APIs)	ок	
2.1	Write JavaScript code, that passes through a linter (e.g. Jshint) with no major issues, and write validated HTML and CSS code	x	Done
2.2	Write JavaScript functions that correctly implement compound statements such as if conditions and/or loops	х	Done - ues JavaScript if statements
2.3	Write code that intelligently handles empty or invalid input data	х	Done - character count validation in the textarea boxes
2.4	Implement appropriate working functionality for all project requirements.	х	Done
2.5	Organise non-trivial JavaScript code in external file(s) linked to at the bottom of the body element (or bottom of head element if needs to be loaded before the body HTML) and CSS code in external files linked to HTML in the head element	x	Done
2.6	Write code that meets minimum standards for readability (comments, indentation, consistent and meaningful naming conventions).	х	Done - consistent readability
2.7	Name files consistently and descriptively, without spaces or capitalisation to allow for cross-platform compatibility.	х	Done
2.8	Write code that does not generate internal errors on the page or in the console as a result of user actions	х	Done - tested
2.9	Organise code and assets files in directories by file type.	х	Done

LO3	Test an interactive front-end web application through the development, implementation and deployment stages	ОК	
3.1	Design and implement manual testing procedures to assess functionality, usability and responsiveness of the web application	x	Done
3.2	Insert screenshots of the finished project that align to relevant user stories	х	Done
3.3	Apply test procedures during development, and implementation stages and test to ensure the deployed version matches the development version	х	Done
3.4	Fully document the results of well-planned manual testing procedures to assess the website's functionality, usability and responsiveness.	х	Done

	LO4	Deploy an interactive front-end web application to a Cloud platform	ОК	
	4.1	Deploy a final version of the interactive web application code to a cloud-based hosting platform (e.g. GitHub Pages)	x	Done
	4.2	Ensure that the deployed application is free of commented out code and has no broken internal links	x	Done
ĺ	4.3	Use Git & GitHub for version control of an interactive web application up to deployment	х	Done

LO5	Demonstrate and document the development process through a version control system such as GitHub	ОК	
5.1	Document the full development cycle, with clear evidence given through commit messages, the README.	×	Done
5.2	Write a README.md file in English for the interactive web application that explains its purpose and the value that it provides to its users.	х	Done
5.3	Clearly separate and identify code written for the interactive web application and code from external sources (e.g. libraries or tutorials). Attribute any code from external sources to its source via comments above the code and (for larger dependencies) in the README.	х	Done
5.4	Use consistent and effective markdown formatting, that is well-structured, easy to follow, and has few grammatical errors, when writing a README file.	х	Done

Merit Performance

To evidence performance at MERIT level a learner will, in general, demonstrate characteristics of performance at MERIT level, as suggested below. However, the learner must achieve ALL listed merit criteria

The learner has a clear rationale for the development of this project and has produced a fully functioning, well-documented, interactive, web application for a real-life audience, with

specific content rather than placeholders. There is a range of interactive features. Data validation, API handling (when applied) and user feedback are all evident in the code and the working application. Optionally, a range of external and internal APIs (e.g. TMDb, Google Maps, etc.) have been used to produce working features. There are no logical errors in the code and the application functions as expected.

The finished project has a clear, well-defined purpose addressing the needs of a particular target audience (or multiple related audiences). Its purpose would be immediately evident to a new user without having to look at supporting documentation. The user is kept informed of progress and actions through feedback and, where large data sets are being loaded, progress indicators. The design of the web application follows the principles of UX design and accessibility guidelines and the site is fully responsive.

Code is well-organised and easy to follow and the application has been fully tested, following manual testing procedures, with no obvious errors left in the code. Unit test files are present in code commits.

The development process is clearly evident through commit messages. The project's documentation provides a clear rationale for the development of this project and covers all stages of the development life cycle.

ALL merit	criteria must be achieved for the learner to be awarded a merit.	ОК	Comments
1.1	Design a web application following the principles of UX design which meets accessibility guidelines, is easy to navigate and allows the user to find information and resources intuitively	х	Done
1.2	Design a web application that lets the user initiate and control actions, and gives feedback	х	Done
1.3	Implement a web application whose purpose is immediately evident to a new user and which provides a good solution to the user's demands and expectations	х	Simplified heading and loads of ressources plus guided videos.
2.1	Write code such that users who direct to a non-existent page or resource are redirected back to the main page without having to use browser navigation buttons	х	Done - 404.md and 404.html
4.1	Commit often, for each individual feature/fix, ensuring that commits are small, well-defined and have clear, descriptive messages	х	Done
5.1	Present a clear rationale for the development of the project, in the README, demonstrating that it has a clear, well-defined purpose addressing the needs of, and user stories for a particular target audience (or multiple related audiences).	х	Done - the purpose is to show users how to solve their own problems
5.2	Document the UX design work undertaken for this project, including any wireframes, mockups, diagrams, etc created as part of the design process, and the reasoning behind it. Include diagrams created as part of the design process and demonstrate that these have been followed through to implementation		Done - all linked ot the README
5.3	Document testing fully to include evaluation of bugs found and their fixes and explanation of any bugs that are left unfixed.	х	Done
5.4	Fully document the deployment procedure in a section in the README file.	х	Done

DISTINCTION performance

At this level, a learner will have achieved all pass and merit criteria, as described above, and will demonstrate characteristics of high level performance as described below:

Characteristics of performance at DISTINCTION level:

The learner has documented a clear, justified, rationale for a real-world application and a comprehensive explanation of how it will be developed.

The development of the project has resulted in a fully-functioning, interactive, web application. When used, the learner shows a clear understanding of asynchronicity and the timing problems that can arise when accessing shared data values.

The finished project is judged to be publishable in its current form with a clearly evidenced professional grade user interface and interaction adhering to current practice.

There are no logic errors in the code. Where there is a clear breach of accepted design/UX principles, or

There are no logic errors in the code. Where there is a clear breach of accepted design/UX principles, or of eacepted good practice in code organisation, these are fully justified, appropriate and acceptable to the target user.

It clearly matches the design and demonstrates the characteristics of craftsmanship in the code. The resulting application is original and not a copy of any walkthrough projects encountered in the unit Amplification (craftsmanship):

Design	Check	Comments
The design of the web application demonstrates the main principles of good UX design:]
Information Hierarchy		1
• semantic markup is used to convey structure - all information displayed on the site is presented in an		Done
organised fashion with each piece of information being easy to find	х	
• all resources on the site are easy to find, allowing users to navigate the layout of the site intuitively	х	Done
• information is presented and categorised in terms of its priority User Control	х	Done
all interaction with the site would be likely to produce a positive emotional response within the user.		Done
This is down to the flow of information layout, use of color, clear and unambiguous navigation structures	х	
and all interaction feedback		
• when displaying media files, the site avoids aggressive automatic pop-ups and autoplay of audio;	х	Done - no automatic popups
instead letting the user initiate and control such actions	Χ.	
• users who direct to a non-existent page or resource are redirected back to the main page without	x	Done - 404.md and 404.html
having to use the browser navigation buttons	^	
• the user is shown progress indicators where relevant	х	Done - ticks on each of the hats
errors resulting from user actions are reported to the user Consistency	х	Done - validation alerts
• evident across all pages/sections and covers interactivity as well as design Confirmation	х	Done
• user actions are confirmed where appropriate, feedback is given at all times Accessibility	х	Done
• there is clear conformity to accessibility guidelines across all pages/sections and in all interactivity	х	Done
Any design decisions that contravene accepted user interaction, user experience design principles are	x	Done
identified and described (comments in code and/or a section in the README)	^	
Development and Implementation		
Code demonstrates characteristics of 'clean code':		
Consistent and appropriate naming conventions within code and in file naming, e.g.		
• file names, class name, function names and variable names are descriptive and consistent	х	Done
• for cross-platform compatibility, file and directory names will not have spaces in them and will be lower-	х	Done
case only	^	
• all HTML attributes, CSS rules, code variables and function names are consistent in format, follow	x	Done
standards for the language and are appropriate and meaningful	^	
File structure	х	Done
• whenever relevant, files are grouped in directories by file type (e.g. an assets directory will contain all	х	Done
static files and code may be organised into sub-directories such as css, js, etc)	^	
• there is a clear separation between custom code and any external files (for example, library files are all	х	Done
inside a directory named 'libraries')	^	
• files are named consistently and descriptively, without spaces or capitalisation to allow for cross-	x	Done
platform compatibility.	^	
Readability		
• code is indented in a consistent manner to ease readability and there are no unnecessary repeated	x	Done
blank lines (and never more than 2)	^	

• id/class(CSS and JavaScript)/function/variable names clearly indicate their purpose	Х	Done
all code is split into well-defined and commented sections	х	Done
semantic markup is used to structure HTML code	Х	Done
HTML, CSS and Javascript are kept in separate, linked files	Х	Done
CSS files are linked to in the HTML file's head element	Х	Done
non-trivial Javascript code files are linked to at the bottom of the body element (or bottom of head	x	Done
element if needs loaded before the body HTML) Defensive design		
all input data is validated (e.g. presence check, format check, range check) Internal errors are handled	x	Done
gracefully and users are notified of the problem where appropriate. Comments	^	
all custom code files include clear and relevant comments explaining the purpose of code segments	x	Done
Compliant code	^	
HTML code passes through the official W3C validator with no issues	Х	Done
CSS code passes through the official (Jigsaw) validator with no issues	х	Done
JavaScript code passes through a linter (e.g. jshint.com) with no major issues Robust code	х	Done
no logic errors are found when running code	х	Done
errors caused by user actions are handled	х	Done
• where used, API calls that fail to execute or return data will be handled gracefully, with the site users	x	Done - EmailJS validation in the form and confirmation alert.
notified in an obvious way	х	
inputs are validated when necessary.	х	Done
navigating between pages via the back/forward buttons can never break the site, there are no broken		Done
links	х	
		Done
• user actions do not cause internal errors on the page or in the console The full design is implemented	x	
providing a good solution to the users' demands and expectations. 23 Real world application		
Clearly understandable site-specific content is used rather than Lorem Ipsum placeholder text	х	Done
All links to external pages open in a separate tab when clicked	х	Done
The final application is aligned to the user stories presented at the start of the project Testing		Done
procedures are comprehensive, with a good level of coverage, and have clearly been followed. All	x	
noticeable errors have been corrected or documented:		
unit tests are included in code commits Version control systems are used effectively	х	Done
all code is managed in git with well-described commit messages	х	Done
• there is a separate, well-defined commit for each individual feature/fix	X	Done
		Done
• there are no very large commits which make it harder to understand the development process and	x	5511.0
could lead the assessor to suspect plagiarism. The full application development process is documented:	~	
• the purpose of the application is clearly described in the README	х	Done
• the project's documentation describes the UX design work undertaken for this project and the reasoning		Done
behind it	х	Donc
bermite it		Done
• wireframes, mockups, diagrams, etc., created as part of the design process are included in the project	х	Donc
there is a clear separation between code written by the learner and code from external sources (e.g.		Done
libraries or tutorials). All code from external sources is attributed to its source via comments above the	x	Done
code and (for larger dependencies) in the README	Χ.	
		Dest
the testing procedure is well documented either in the README or a separate file the dealerment procedure is fully documented in a costion in the README file	X	Doni
the deployment procedure is fully documented in a section in the README file	Х	Dona
clear, well-described, explanatory commit messages describe the development process	Х	Done Constitution of the bate
the README is well-structured and easy to follow	Х	Done - ticks on each of the hats
• the README file is written in markdown and uses markdown formatting consistently and effectively	Х	Donm
• project documentation and the application's user interface have few errors in spelling and grammar	Х	xxx