

DIG60011 Assignment 02: Interactive Greeting Card

Due: 5pm Friday Week 12

Weighting: 25% Final Grade

This assignment has two components:

1. Design and Construction of a Greeting Card mobile website that is as cross-device and cross-browser compatible as possible. It should demonstrate topics covered in the subject up to and including week 11.
2. A report listing the design choices made and providing a justification of those choices. In particular it should address responsive web design, progressive enhancement and usability.

The website will be graded according to two levels:

1. Meets all assignment criteria (max 85%)
2. Additional HTML5, CSS3, JavaScript or jQuery features not covered in the course (15%)

Carefully read the Marking Scheme at the end of this Assignment Specification.

1 Website (20% of final grade)

Design and construct an interactive greeting card in HTML5, CSS3 and JavaScript that is sufficiently cross-device and cross-browser compatible to be easily used on a range of platforms including smart phones, tablets, laptop / desktop computers. Your interactive card should:

- be for a birthday, Christmas, wedding...etc
- contain at least 3 different interactive elements (using the mouse or keyboard).
- Contain at least 1 animation, minimum 3 seconds long.
- Validate user input with JavaScript.

1.1 Evidence of individual research document

To get full marks you should provide evidence of individual research beyond content supplied in the textbook, study guides, lectures and labs. In addition, markers need to know where you have put features from supplied content. In a word document (see Submission Instructions, point 3) for each feature you have incorporated into the site:

- a) that you have researched yourself, list :
 - The feature
 - A reference to the source of information
 - The file, page or location in your code where the feature can be found.
- b) from the supplied content (in particular see Marking guide Sections 3 & 4) list:
 - The feature
 - The file, page or location in your code where the feature can be found.

2 Technical report (5% of final grade)

Write a two to four page technical report about the design choices made for the interactive card that exemplify best practice design for the mobile web.

2.1 Structure and content (1%)

The report should contain:

- Title, student number and name
- Introduction
- Proposal
- Graphic design (e.g. storyboard / wireframes / colours / fonts)
- Well organised list of design/feature choices (ie, audience, usability, accessibility...etc)
- Conclusion/recommendations/predictions of future developments
- References

The report should be written in formal business style, predominantly third person. Jargon should be avoided if possible. Acronyms and terminology should be explained in the introduction.

2.2 List of design choices (3.5%)

List at least 3 design choices you have made for the card that exemplify best practice design for the mobile web. Explain, in particular, choices that support usability, progressive enhancement, responsive web design, and accessibility. In particular, consult the content and the references in the Chapters 3 & 5 of the Study Guide. Consider the constraints of the mobile web and explain how each design choice has attempted to deal with that constraint.

2.3 References (0.5%)

Your report should refer to at least three references.

Your references should be correctly cited inline and correctly formatted in the reference section. Harvard style is recommended because it is fully described in the Swinburne Library web site, but any other style is acceptable as long as it is correctly and consistently implemented.

3 Submission instructions

Submit 1 ZIP file on Grade Centre:

1. File should be named:
DIG60011_A02Card_StudentSurname_StudentID.zip
2. The website files should be inside a folder named ***card***.
3. The following 2 documents can be placed at the *root* folder:
 - Evidence of individual research for features incorporated into the site should be in a file in PDF format named: ***research.pdf***
 - Technical Report should be in a file in PDF format named: ***Technical_report.pdf***

4 Website Marking Scheme

	Component			Marks
		Individual Criteria	Mark	Total
1	Structure			9
		File/folder naming	3	
		Folder structure	3	
		Submission structure	3	
2	Card Design			23
		HTML and CSS matches graphic design	3	
		Usability/Accessibility principles adhered to	3	
		Appropriate file type usage	3	
		At least 3 interactive elements	9	
		At least 1 animation ≥ 3 sec	3	
		Inputs are validated and display error messages	2	
2	Compatibility			12
		Most interactivity works across devices and browsers (Demonstrate progressive enhancement when feature not supported on device/browser).	6	
		Works on full-size, tablet and smartphone screens. Demonstrates responsive web design.	6	
3	HTML5			17-23
		Good use of semantic markup in structural elements	5	
		W3C validated	3	
		At least 3 of the following features: <ul style="list-style-type: none"> • The Canvas API • Session & Local storage • Drag and drop • Transitions • Dynamic HTML • Vector graphics • Geolocation • Social network API • Sound/Music playback Please list in the document of researched features. (Bonus 2 marks every extra feature, up to maximum of 6 marks)	9-15	
4	CSS3			10-13

		Appropriate, working valid CSS	6	
		At least 2 of the following features: <ul style="list-style-type: none"> • Box shadow • Box-radius • Gradients • Transition • Pseudo selectors (nth-of-type, nth-child, :not...etc) • Media query Please list in the document of researched features. (Bonus 1 marks every extra feature, up to maximum of 3 marks)	4-7	
5	Forms			12
		At least 2 form elements	4	
		Validation via JavaScript	4	
		Demonstrate the onSubmit event (via JS or button)	4	
6	JavaScript / jQuery			11
		Demonstrates understanding of: <ul style="list-style-type: none"> • Event handling • DOM manipulation • Advanced variables, ie arrays • Functions with parameters/ return 	7	
		Correct syntax	4	
7	Documentation			6
		25% Commenting in: <ul style="list-style-type: none"> • HTML • CSS • JavaScript 	6	
	Total			100