

IDM2: Front-End Development Project

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Introduction

The main aim of this project is to further develop student skills in web development, the principles of multimedia, interaction design, navigation, usability principles, to develop a website that adopts a Responsive Web Design.

Requirements

Technical

- You are required to create a standard local root folder. Include an additional folder called docs in your local root folder into which you should place all additional relevant documentation e.g. presentations, reports, etc.
- The home page of your web site should be named index.html and be in the root location of the local root folder.
- You are required to code to the HTML5 syntax.
- You must validate your code at **<http://validator.w3.org/>** for your HTML and **<http://www.css-validator.org/>** for your CSS. Make sure to fix as many errors as possible.

News Article Structure

- The base unit of content in your site should be a News Article and should have the following elements:
 1. Title (max 100 characters)
 2. Summary (max. 150 characters)
 3. Full Text (max. 3000 characters)
 4. Image (Format: jpg|png)
 5. Author
 6. Date

Responsive Design

- You are required to create a responsive design that adapts the page design to cater for the at least 3 break points.
 - Mobile phone
 - Tablet (portrait or landscape)
 - Desktop
- You are required to use appropriate and semantically correct HTML5 markup to structure the content and layout

Website Structure

- All Pages should be based on the same template specification and should contain at least the following elements:
 - Branding
 - Navigation
 - Content
 - Footer
 - Header

• You are required to design and create the following pages with at least the following components listed under each page in addition to the standard template elements:

1. Homepage
 - ☐ One Featured news article
 - ☐ Selection of other news items
2. Login/signup/profile
 - ☐ Create new account
 - ☐ Login
 - ☐ View/Edit Profile
3. All News
 - ☐ View all news sorted by newest
 - ☐ Display title, summary, author, date and image (thumbnail?) only
 - ☐ Each news story should link to the full article
4. Full Article x5
 - ☐ Complete details of an article
 - ☐ Please create 5 distinct articles
5. Submit/edit/delete news item
 - ☐ Logged in users should be able to
 - ❖ Add new news article
 - ❖ Edit existing news article
 - ❖ Delete existing news article

Phase 1 - Project Stages

Research & Design- 20%

1. Research & Concept Development: research various existing news websites – sports / gaming / music / politics / local etc.
2. Audience Analysis: 2 personas of your target audience
3. Content: Wireframe of home page and full article page – desktop and mobile
4. Navigation Analysis: Navigation design.
5. Design: Photoshop / Illustrator of the home page – desktop and mobile

Deliverables

1. Word document/pdf documenting your research & content development
 - with commentary on what you liked/disliked on existing websites (desktop/tablet/mobile) – layout, fonts, colour schemes, usability etc
 - why you chose your colour scheme, navigation style etc**(5%)**
2. Moodboard (.png) **(3%)**
3. Persona x2 (.pdf/png) **(3%)**
4. Wireframe x4 (.png) **(3%)**
5. Navigation Design (.png) **(3%)**
6. Photoshop Design (.psd) **(3%)**

Development – 20%

- Production of responsive design in HTML/CSS

1. Home Page **(5%)**
2. 1 x Full Article Page **(5%)**
3. All News **(5%)**
4. Login / Signup / Profile **(5%)**

- Production of placeholder content for images & text

Deliverables - Zipped Local root folder containing working site uploaded to Moodle

Submission

- Remember to name your local root folder in the following convention, K00123456_IDM2_RWD_Project_Phase1, remembering to replace K00123456 with your K number. The subfolders are as follows
 1. html
 2. css
 3. images
 4. documents
- The documents folder will contain all your design documents
- Zip your local root folder.
- Upload your zipped local root folder to Moodle before the due date and time.
- Late submissions will incur a penalty of 5% deducted from your grade per day that you are late.

Phase 2 - Project Stages

Development – 22%

- Maintain Github repository of all project files during the development stage
- Production of design and all content in HTML/CSS/Javascript
 - All web pages created in Phase 1 to be completed with full content – **4%**
 - All remaining web pages to be completed with full content – **10%**
 - Javascript validation to be used on all forms – **4%**
 - Enhancement of website using Javascript in at least 2 more areas – **4%**

Deliverable

- Zipped Local root folder containing working site uploaded to Moodle

Deployment & Test - 10%

- Deployment – **4%**
 - Fully functioning site deployed to Github – 2%
 - Record of regular updates to Github – 2%
- Test – **6%**
 - Test and validation on your own project – 1%
 - Perform usability test on your colleagues' projects – 2%
 - Write up report on testing process – 3%

Deliverables

- Website deployed (URL)
- Test report (.pdf)
 - Output from validators
 - Report on Usability Test

Presentation & Demo - 8%

- 5 minute Presentation (on both phases of the Project) – **4%**
- Suggested slide categories
 - Design Rationale
 - Research & Design Output
 - Development Process
 - Identify RWD techniques used
 - Problems & Solutions
 - Lessons Learned
- 5 Minute Demo / Walkthrough of your site – **4%**

Deliverables

- Presentation (ppt / pdf)
 - Presenting schedule will be issued on Moodle
- Demonstration at your desk or the overhead projector.
 - Demonstration is mandatory
 - Demonstration schedule will be issued on Moodle

Submission

- Phase 2 is a continuation of your Phase 1 project. Use Phase 1 as your starting point
- Remember to name your local root folder in the following convention, K00123456_IDM2_RWD_Project_Phase1, remembering to replace K00123456 with your K number. The subfolders are as follows :
html, css, js, images, documents
- The documents folder will contain all your design documents
- Zip your local root folder.
- Upload your zipped local root folder to Moodle before the due date and time.
- Late submissions will incur a penalty