Accessible / Content First / Responsive  
Front-End Web Development Project  
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- Fluid grid - Flexible images - Media queries

- Version Control - Sass - JS Tools

**Subject:**  
SOLAQUA Solar Heating Company.  
OR  
Silver Strand Guesthouse, Sherkin Island, Cork

**Submission Date:** Friday 27th July 2018.

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Minimum 4 pages/sections.

The build of the site will call for a 2/3/4 column layout. You are to implement this with CSS grid, and flexbox where necessary.

The site will ultimately reside on Github. This should be as a result of a PUSH from your local Git repo. Therefore; you may want to create a local Git repo from the outset.

You will be using NPM to manage your build, controlling JavaScript and CSS tasks.

Your CSS should be written in a Sass file.

Once you start to build the site you should be testing it (including with browsersync).

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The completed project should include / take account of

**Project Plan:**

***Start here:*** [**https://www.smashingmagazine.com/2018/02/comprehensive-website-planning-guide-part1/**](https://www.smashingmagazine.com/2018/02/comprehensive-website-planning-guide-part1/)

***At the outset*** you will need to create a project plan identifying all stages of your project, along with an allotted amount of time for each task/stage  
(use GanttProject - **https://www.ganttproject.biz/**).

Key areas include

• Assessment Criteria for success of site / Goals

• Extreme user

• Accessibility (**https://alistapart.com/article/planning-for-accessibility**)

• UI

• UX ([**https://alistapart.com/article/ux-for-lizard-brains**](https://alistapart.com/article/ux-for-lizard-brains))

• Validation / Testing

Sign off documents should be prepared for the site map, prototype and build stages.

**Client Questionnaire:**

A questionnaire should be completed with the client. In this case you are the client and the developer, but completing the questionnaire should help focus your objectives and overall plan, identifying subject matter for site, site goals, target audience, call to action, etc.

**https://www.beewits.com/website-design-questionnaire/**

**http://business.tutsplus.com/articles/how-to-extract-the-facts-with-a-web-design-client-questionnaire--fsw-1830**

**http://www.noupe.com/business-online/freelance/how-to-create-the-perfect-client-questionnaire.html**

**Contract**

To be aware of for any freelance work undertaken

**https://www.beewits.com/web-design-contract/**

**Site Map:**Create a site map for your project

**Design Principles:**You will want to attend to design concerns from the outset but certain features belong to the Mock-up phase.

***Logo:***While you will need a logo, logo design is not a priority with this project. You can use type to distinguish your logo, or modify a simple graphic in Photoshop.

***Images:***All images used should be in .psd as well as optimized forms.  
You will be implementing responsive images, create 3 versions of each image to address resolution capabilities of display device. You will be using the **srcset** attribute at the coding stage but you may require the **<picture>** element if addressing art direction.

***CRAP:  
C***ontrast, ***R***epetition, ***A***lignment & ***P***roximity

***Visual Hierarchy:***Including call-to-action and blur test.

***Design Elements:***Line, Shape, Texture, Colour, Value, Size, Space

***Typography:***  
You should use 2 fonts throughout the site but take account of size, kerning, tracking, line height, caps and spacing.

**Wireframes:**Low fidelity sketched versions of the site layout with a focus on Content First (\*progressive enhancement)

Include paper cut-out versions of your proposals at this stage. Attach to cardboard backing for mobile and tablet depictions.

Continue to ruled grid paper layouts, specifying correct proportions for each section.

**Behaviour (JavaScript, JQuery):**Decide where it would be appropriate to include JavaScript event listeners or AJAX functionality.

**Rest API**If appropriate, include the weather feature from openweathermap.org, complete with weather icon.

**Prototype:**A medium fidelity, grid based (12 column) version of the sites homepage. The emphasis here is on a working version of the wireframe; it is not necessary or desirable to include specific typography or colours.

**Mock-up:**A Photoshop example of the site, showing at least one, but ideally all 3, of the following states: desktop, tablet and mobile.

These will take account of typography and colour schemes.

**Build:**Preferably you will code the site yourself using semantic HTML markup and CSS grid and flexbox, ~~but if you want to use this as a chance to get more familiar with Zurb Foundation, feel free to expand your prototype into a working site. Please note, you want to be able to display the prototype as well as the complete site, so consider creating a separate HTML file for each unless simply disabling the CSS is sufficient.~~

If creating your own CSS file, Sass is recommended (use a main sass file in conjunction with other sass files beginning with underscore).

• Reset or Normalize stylesheet

• Modify **box-sizing** property

• Build the site using CSS grid and flexbox

**Testing:**You will need to test as you build. Testing should occur in different browsers, on both PC and Mac and on different devices.

You should get at least 2 other people to provide user feedback on you site. This should occur at the prototype stage and the completed stage.  
(**https://alistapart.com/article/feedback-that-gives-focus**)

**Upload:**On completion upload your site to your test location or your own hosting server. As well as accessing the hosting control panel via your computer here, use an FTP client.

Your site also needs to be uploaded to GitHub and configured to be accessible as both a repo and a website.

**Additional:**

Determine what domain name would be suitable and available.