How to start your first Milestone Project

1. **You know enough**

   - If you have done all the challenges and gone through the whole material – this is enough
   - No need to do any revisions, this will only consume your time
   - The real learning happens when you build your project
   - You will revise most of the things while doing it

2. **Idea**

   - Read through the Project Introduction to learn what your site should include
   - See the suggested ideas for a project
   - Think of something that you know very well and will enjoy building

3. **README**

   - Get an exemplary README template from the Project Introduction section
   - Write up the first section – this will allow you to make your idea clearer (mention external/internal user's goal)
   - Write up the UX section (think of who your users are, what motivations they have)
   - Include user stories – they will help you further clarify what you want to include in your website
   - [Markdown cheat sheet](#)

4. **Wireframes/mockups**

   - [Balsamiq](#) is recommended, however you can use whatever you like (Power Point, Paint, hand drawing etc) – as CI students we have the access to Balsamiq – please see on [Slack](#)
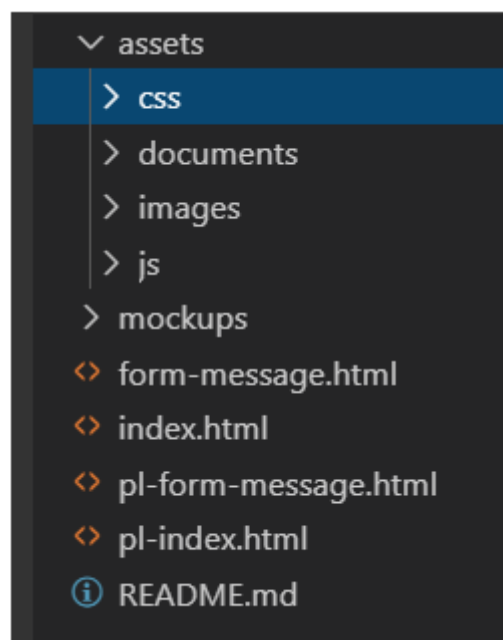
- Use the description and user stories in your README to create wireframes for your project
- Remember to include wireframes for mobile, tablet and desktop
- The time invested to create good wireframes will pay off while coding!

5. Mentor session

- It might be a good idea to send your wireframes and the README prior to the session
- Think of questions you would like to ask (you might make a list)
- Listen to suggestions

6. Set-up

- IDE – Visual Studio Code, GitPod, Cloud9

- File structure

- HTML boilerplate: `! + tab` should return a basic boilerplate

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <meta http-equiv="X-UA-Compatible" content="ie=edge">
7       <title>Document</title>
8   </head>
9   <body>
10
11  </body>
12  </html>
```

- If you would like to have a boilerplate with Bootstrap links:

  - For VSCode you can download an extension (created by our own Yoda, aka Simen, aka Eventyret_mentor)
  - For GitPod you can use the template with the above extension integrated
  - Otherwise you can get your Bootstrap links here.

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.3.1/css/bootstrap.min.css">
8   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.11.2/css/all.min.css">
9   <link rel="stylesheet" href="style.css">
10  <title>Title</title>
11  </head>
12  <body>
13
14  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.slim.min.js"></script>
15  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.15.0/umd/popper.min.js"></script>
16  <script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.3.1/js/bootstrap.min.js"></script>
17  </body>
18  </html>
```

- Don't forget to link you CSS file in your HTML (and JS file if you use it)

7. **Commit!**

- When everything is set up it's a good time to create your first Git commit
- `git init`
- `git add .`
- `git status`
- `git commit -m "Initial commit"`
- More in the [Git cheat sheet](#)

8. **Resources**

- https://auxfuse.github.io/userCentricResourcePack/ - a collection of many of the resources, made by Anthony
  - ➢ Anna's Bootstrap grid tutorial
  - ➢ Anna's 'How to make a kick-ass first milestone' documents
  - ➢ Simen's presentation on Git
  - ➢ Bootstrap documentation
  - ➢ W3Schools – for quick reference
- [Stack Overflow](#)

9. **Step by step**

- Divide you work into steps
- Define basic structure of your project (e.g. navbar, sections, footer)
- Work on one thing at a time

10. **Make mistakes and have fun!**