

IMY 210 Unit 3 Assignment

Important!

- Make frequent backups of your working files
- You will only receive up to 50% if your final files are **not valid** or **not well-formed**.
- Remember to include your name and student number as comments in the file.
- Estimated time required to complete: 10 hours

Assignment breakdown

- Create a blog website using NuxtJS and strapi.io
- Host your application using Docker
- Host your codebase on GitHub
- Write a short reflection on the process

Final files to upload

- Working Dockerfile
- All code to your project, (including separate folders for your NuxtJS and Strapi projects) excluding the “node package” folder
- A brief reflection (200–300 words) describing your experience with Docker and Strapi, the challenges you faced, and what you learned.
 - You should also include a link to the GitHub repo and the commands used to run your Dockerfiles in this file.

Resources

- [Jamstack Official Site](#)
- [Jamstack resources](#)
- [Strapi.io](#)

Task

- Design a blog website that should include the following
 - A homepage with all your blog posts, showing only the title, author and a snippet of the content, which should be filterable via a category dropdown.
 - A search page where you can search for either an author or blog post name.
 - A page that displays a single blog post and all of the content (blocks) using some sort of markdown renderer (use a parameter in the URL to pass through the identifier to pull the data).

Part 1: Set Up the Project (25%)

- For this assignment download and install Nuxt.js
 - <https://nuxt.com/docs/getting-started/installation>
- Install and set up Strapi.io and populate it with content.
 - <https://docs.strapi.io/dev-docs/quick-start>
- Following the guides, install all the necessary tools and dependencies, and create your project
- Create pages for the homepage, search page and single blog post page.
 - You are welcome to use any method to store data for this part.
 - All data should be loaded when the page loads
 - You should have 3 separate routes, one on each page.
 - **Hint:** You should make use of components, routes and pages wherever possible. You will be marked on your ability to identify the correct use cases for components, pages and routes.

Part 2: Integrate an API (35%)

- Using the Strapi API, populate and handle the data on your website, and populate the relative page with the required information.
 - You are not allowed to use the Strapi NuxtJS module, everything should be done via the API that Strapi provides.
- Using the Strapi API, you should populate and add functionality that is required for each page.

Part 3: Style the Website (10%)

- Use CSS, SCSS, or even a framework like Tailwind CSS for styling.
- No component libraries are allowed, only CSS, SCSS or some sort of CSS utility framework.

Note: Attractive and user-friendly design.

Part 4: Deploy the Website (10%)

- Finally, create a Dockerfile for both your NuxtJS and Strapi instance.
 - **Hint:** These should be two separate Dockerfiles that you should run independently to get your NuxtJS and Strapi running.

- o Note that the URLs that you use to query Strapi might change, so ensure that you cater to and handle this.

Part 5: GitHub (10%)

- Put your codebase onto GitHub.
 - o Ensure that you don't upload your .env files to GitHub (but you will need to include your .env files in your ClickUp submission).
- You need at least 3 commits to show that you consistently worked on the assignment.

Note: When the assignment is marked, the version from ClickUP will be used, so ensure that you have the same copy on GitHub and ClickUP.

Part 5: Reflection (10%)

- Write a brief reflection (no more than 300 words) describing your experience with Docker and Strapi, the challenges you faced, and what you learned.
- You should also include the following:
 - o A link to your GitHub repo.
 - o All the commands that the marker should use to set up.

Submission

- Compress all indicated files into an archive named **A3.zip**.
- Make final backups of all your files and keep them in a safe place.
- Submit your ZIP file to the link provided on clickUP.