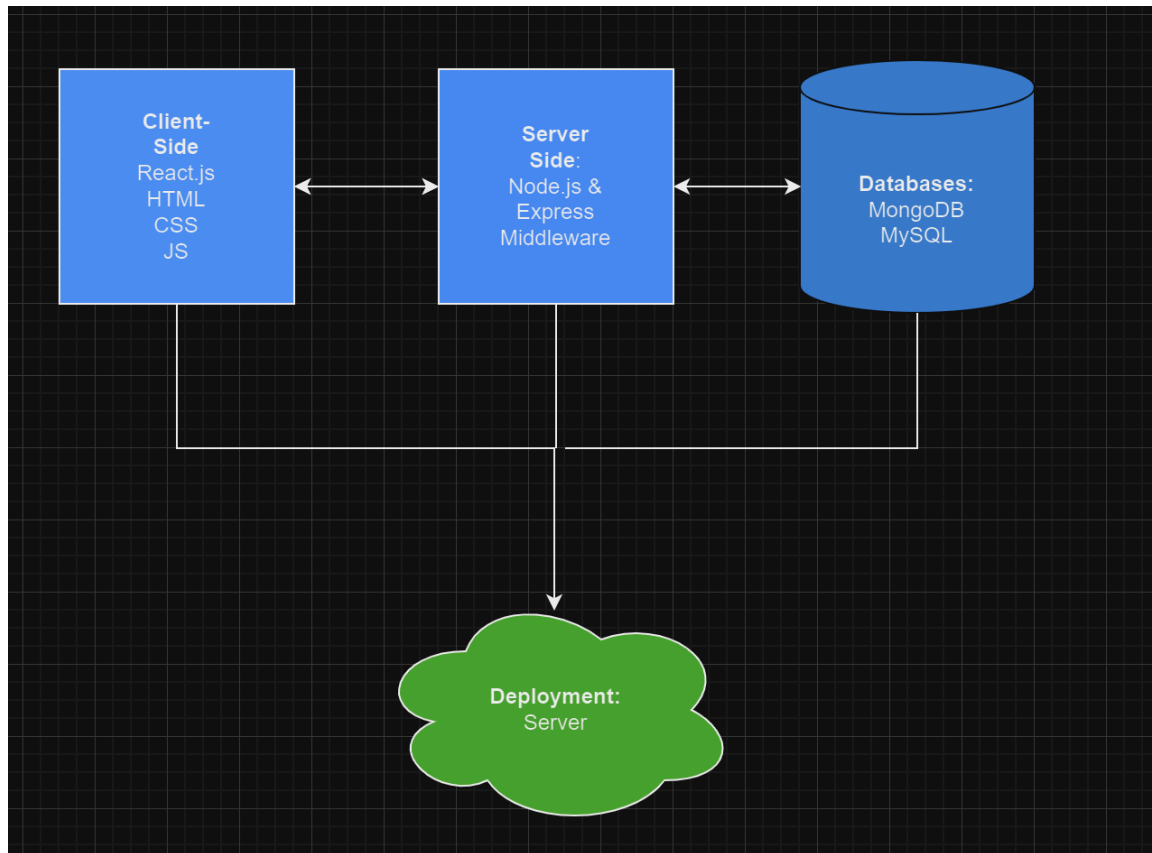## Architecture

Justifications

The MERN stack is something all three of us are familiar with from using it relatively often over the last semester, in work that is similar to what we'll be doing here. It's fit for purpose and simple to set up, too, making it far easier for us to create a webapp using it.

- We can host a webapp on a website rather than publishing it on IOS/Android, meaning we'll be saving 125€~ and
  - And if we do end up wishing to turn the website into an app later, doing so with React would be easy.
- Data the Admins will upload: Recipes, Menus w/ Allergen Info, Newsletters, Pantry Info.
  - **Recipes** - PDFs.
  - **Menus** - Title, Price, Description, Nutritional Info, Allergens.
    - Menu Items will be persistent, so Admins can create a menu for the week/month by simply selecting items that had already been added. Saves time for stuff that's often in the canteen, like Lasagna or Spice boxes.
  - **Newsletters** - PDFs? Not much was mentioned about this. The ATU Health posts could also be posted here, and those are usually images.

- ○ **Pantry** - List of currently available items.
    - ■ This one would need to be updated frequently by an organizer of the pantry. May be scrapped and replaced with general information about the pantry, in the form of either a PDF (so Admins can update it at some point if it ever changes location) or a regular page.
- ● Agile methodology to develop the project by deciding in our scrum meeting what will be completed in our sprints.

Questions to Ask

- ● Who will be updating the menus and general information?
    - ○ How often are the menus updated?
    - ○ Are the same menus reused over time? How often do they vary?
- ● Deadline for project? March 22, but roll out piecemeal
- ● Must haves vs would like to have. ranked
- ● Can we have some sample menus, sample recipes for testing so we know what format the information should be in?

Work Allocation

Just an idea for now:

Front-end Development for the interfaces for both the users to interact with and the canteen staff to update and change data with.
Section Lead: Mary

Server side development using express.js or node, MERN.
Section Lead: Patrick

Database Management for setting up the databases e.g. MongoDB for PDF's and connecting it.
Section Lead: Oisin

All extra collaborative tasks will be divided up equally.