

CMS Technologies – BackendBoys

Programming language: Python

We chose Python because it is the programming language most of us were most experienced with and because it is easy to pick up, understand and get good at. By choosing Python we were able to make quick progress especially through the networking part of our application. The GUI was also easier to build than if we were to choose another programming language.

ORM: SqlAlchemy

We chose SqlAlchemy as our ORM because of its popularity and compatibility with different database technologies (MySQL, PostgreSQL, etc.). Its popularity meant that we were able to find many resources that helped us solve the problems we have encountered.

Diagrams:

For building the diagrams to the UML standard we used Draw.io and learned how to build them, what they mean and so on from the provided tutorials and Bruegge's book.

Version control: Git and Github

We used git and Github because of their widespread and the numerous tools available for them (such as SourceTree and Github Desktop). These tools made it much easier to see the changes made by everyone and use Git's features.

UI prototyping:

For this we used Draw.io to create diagrams that would represent the final version of the GUI and went through every identified use case, thought about how it would be best presented to the user and how to effectively handle the different user types.

Database technology: PostgreSQL