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Milestone 1 Cpt_S 322

Team Name: Roommate Finder group 5

Key Tools:

Visual Studio Code

- Used as the primary code editor to write the source code for our program. It contains a variety of easy to access extensions and frameworks. It also allows for live sharing of code in which all members can participate simultaneously ensuring smooth workflow.

CSS

- Can help facilitate our creation of designs so it works with various screen sizes, and allows us to create appealing interfaces. It also helps ensure that our application can be compatible with multiple different browsers. The CSS file helps us reduce the size of HTML docs so we can have fast load times and good performance. Allows for the browsers to be cached so load time can be even faster. *Gives us tools which can also make the process easier and more manageable. CSS is also a very popular styling language so there is a large community of help with resources, documentation and more and is very valuable for web development.

Github

- Github is the best repository for software engineers and keeping work in check. It is an extremely methodized repository for keeping track of versions for projects and an

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external source to keep projects in. This also allows any project overseer or manager to view any task in real time so they can view a project's process and current state.

Google Docs

- Google docs is a simple yet effective word processing application necessary for this project. Word processing applications are a great way for a software developing team to communicate and coordinate their projects and keep in touch of their priorities and goals for whatever product they will or are working on. Google Docs is one of the best applications for these tasks as it constantly updates whatever changes you make to the document, and saves the changes made over time for back tracking on whatever information was previously stored in the document. It is also easily accessible and even easier to share and set up with teammates for communication.

Technologies:

Python

- We will use Python as the primary language for building our application, due to its simplicity and vast ecosystem of libraries. It allows for rapid development for something such as the Roommate finder application.

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MySQL

- We will use MySQL as the database management system in which we can use alongside Django to store and manage our data. We chose MySQL due to its reliability and ease of use. This made it well suited for handling user preferences. This way our data can be securely stored and retrieved efficiently.

HTML

- We will use HTML as the front end language for the roommate finder application. HTML is a fundamental language which allows for web development. We can use it to display contents such as user input, user matches, top matches, etc... It also works easily with Django in finding potential roommates and searching.

Process Model:

For our process model we are going to be using the waterfall process. The primary reason we are working with his model is because we have a clear idea of what features we want for the final product and do not see the requirements for our product to change radically.

This process is very rigid against any discoveries or changes however, the process is the simplest and easiest to follow allowing us to put more effort and focus into each step of the process allowing us to produce our best work.

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Our main goal for our project is to deliver a functioning service based upon the requirements that we would create and the waterfall process will provide us a path to understanding how we will realize our ideas.

This process is possibly one of the cheaper processes in that once we complete a step, we continue on until we reach our deliverable, we will not have to spend extra cost in going back and forth between each section of development and the customer will just need to pay a single price to develop this product.