**Project Topic Form**

**Group Name:** Chaotic Coders

**Project chosen:** Hotel Reservation Desktop Application

**Project description – include 1-2 paragraphs stating the project description in your OWN words.**

This Hotel Reservation App will have the ability to allow different users to log in (User / Manager). Users will be able to Search for rooms based on their price, size, and availability. Users will then be able to Reserve their selected room(s). Users will also have the ability to modify their reservations. Modifications include changing rooms, canceling their reservation, or changing the day of their reservation.

Managers will inherit the same abilities as the user but they will have elevated access to reservations, allowing them to change the status of a room, modify the prices, and cancel reservations. Any time a change is made to a reservation the user who made the reservation and the manager will receive a report with the room number, date modified/canceled, price of room, duration of stay, and what was modified.

**What software tools, languages, databases, etc. are you going to use for your project?**

* Jira
* GITHub
* Java
* Discord/Zoom
* Private files
* Swing or JavaFX

We plan on using multiple software tools for our project. We will be using Jira as our organizational task board. GITHub will be used for software version control and Java will be our coding language for this application. As for remote communication, we will be using Discord and maybe Zoom if it is needed. For data storage, we were envisioning just using private files but wanted to maybe try using AWS. As for GUI tools, we maybe thought of using Swing or JavaFX.

**It is expected that you use a software version control for your project. It is up to you to choose a particular version control tool. GIT is widely used. You may choose an online service provided for free such as GIThub or GITlab.**

GITHub and maybe AWS

**Perceived technical strengths and weaknesses of each team member (i.e. how do you envision dividing up duties?) This should result from an open, collaborative discussion among the teammates. Note: this is about your technical skills and not about your habits or non-technical qualities such as “XX can work all night long!” or “XX has trouble staying motivated!”**

**Alex:**

Technical strengths: I have a good amount of experience with several languages, C++/C#, Java, Javascript, Python, HTML, and Labview. I would say my strongest language is either C++ or Java, but I am able to pick up on other language syntax pretty quickly if I am branching out of my comfort zone. I have prior experience using APIs and creating simple web pages for small-scale projects. I have worked in software development teams before while interning at Raytheon, so I have some experience with the documentation we might need to write.

Technical weaknesses: I have little/no experience with databases, I took the course during peak Covid and I don’t remember 80% of it. I have limited experience with app deployment and infrastructure concepts. I know the basics of Git Hub but have no real experience with branch management and file merging.

**Ethan:**

Technical strengths: I am very experienced in working with both Java and C. I know how to work in graphical design with programs such as Photoshop. I have also used organizational platforms such as trello very frequently in the past for projects. If needed for this project, I am also knowledgeable in Groovy and Kotlin.

Technical weaknesses: I am not too experienced in web development or app development. I am also not too familiar with databases like mySQL but I am interested in learning it. I do not have much experience with a multitude of languages, for example, I am still working on building my knowledge of Python. Lastly, I am still fairly new to platforms like GitHub.

**Minas:**

Technical strengths: I have good knowledge of Java, Python, C#, JavaScript, and HTML, with Python being my primary language. My current knowledge of Java is enough to complete various development needs, enabling me to build and manage different types of applications effectively.

Technical weaknesses: My main area of weakness is my limited experience in developing projects from start to finish, especially in collaborative settings. I haven't yet had the chance to manage or participate in full lifecycle development, which can make it challenging to understand the overall project management process.

**Nura:**

Technical strengths: I have a good knowledge of python, HTML, CSS, and some Javascript. I have some experience of designing web page.

Technical weaknesses: I'm still learning Java. I haven't work in a group project before. But I'm looking forward to this

**How do we envision dividing up duties:**

Alex: I will be in charge of keeping the team on track to meet deadlines. Ensure that all members are completing their assigned tasks. Further discussion is needed to divide up duties. Ideally even distribution of tasks to everyone.

Ethan: Further discussion is needed to divide up duties. Ideally even distribution of tasks to everyone.

Minas: Further discussion is needed to divide up duties. Ideally even distribution of tasks to everyone.

Nura: Further discussion is needed to divide up duties. Ideally even distribution of tasks to everyone.