**Progress Report**

**- Increment 1 -**

**Group #9**

*Please use this template to describe your progress on the group project in the latest increment. Please do not change the font, font size, margins or line spacing. All the text in italic should be removed from your final submission.*

# Team Members

*Name: Oteo Mamo. FSUID: om21d. GitHub ID: oteomamo*

*Name: Yazhu Song. FSUID: ys21j. GitHub ID: zosong*

*Name: Riley Ratto. FSUID: rmr21c. GitHub ID: Riley38329*

*Name: Brandon Kazmierczak. FSUID: bjk20b. GitHub ID: BrandonK-FSU*

*Name: Ziluo Li. FSUID: zl22b. GitHub ID: liziluo*

1. **Project Title and Description**

*Title: GrindChat*

*Description: GrindChat is a collaborative messaging application developed using the C# programming language and the .Net framework. This applicatiion is designed to facilitate seamless operations and interactions between various entities such as Users and Teams unified under a user-friendly interface.*

1. **Accomplishments and overall project status during this increment**

*1. Database: The GrindChat database is near completion.*

*2. UI Design: Several interfaces of the application have been finalized.*

*3. C# and .Net Framework Integration: The application has integrated functionalities using C# and the .Net framework.*

*4. Collaboration Features: Features facilitating interactions between Users and Teams have been developed.*

*The GrindChat database is almost done. The focus is now on the user interface, with several interfaces completed. The application uses C# and the .Net framework for its core functionalities. Testing of the interfaces is ongoing.*

1. **Challenges, changes in the plan and scope of the project and things that went wrong during this increment**

*One of the primary challenges was deciding on the most suitable database for GrindChat. We explored three different databases to find the best fit in terms of performance, scalability, and compatibility with our existing architecture. Initially, we planned on integrating a single database, but after assessing our requirements, we explored three different options. The reason for this change was our commitment to providing the best performance and user experience.*

1. **Team Member Contribution for this increment**

*Please list each individual member and their contributions to* ***each of the deliverables in this increment*** *(be as detailed as possible). In other words, describe the contribution of each team member to:*

* 1. *the* ***progress report****, including the sections they wrote or contributed to*

*Yazhu Song*

* 1. *the* ***requirements and design document****, including the sections they wrote or contributed to*

*Brandon Kazmierczak*

* 1. *the* ***implementation and testing document****, including the sections they wrote or contributed to*

*Riley Ratto*

* 1. *the* ***source code*** *(be detailed about* ***which*** *parts of the system each team member contributed to and* ***how****)*

*Oteo Mamo, Ziluo Li: Database. Focused on the database architecture, ensuring optimal normalization, and creating efficient SQL queries for data retrieval and insertion.*

*Riley Ratto: UI design. Developed wireframes and prototypes, which were then reviewed and tested by the team.*

*Yazhu Song, Brandon Kazmierczak: SignalR. Integrated SignalR with the client side, allowing for live chat, notifications, and other real-time features in GrindChat.*

* 1. *the* ***video or presentation***

*Oteo Mamo*

1. **Plans for the next increment**

*1. Focus on finalizing the database, ensuring it aligns with the chat functionality and application needs.*

*2. Integrate and test the customer chat feature using SignalR, ensuring real-time communication and message storage.*

*3. Expand UI design, incorporating feedback and ensuring consistency across all components.*

*4. Conduct integration and performance testing, especially for the chat feature to ensure it can handle simultaneous users.*

1. **Link to video**

*Paste here the link to your video.*