ACME Chat Application

(Note: I assumed this did not need to be based on real people. If this is incorrect, I can revise it)

This software will be developed using the Incremental Software Model. This is because we want to get a usable version of the product early, then more functionality and quality-of-life features (e.g., Cloud File Storage). The team working on the project is small, so the core functions will be first priority in development.

The team, despite its size, is quite competent in Chatroom app designs. They have worked on similar projects in the past and have a fair amount of reusable code. This team will function with an Agile structure, with one manager overseeing the sprints. The members will get together and discuss which components of the project each member will work on. Then the sprints will be designed to set realistic goals for each developer.

**Use Case**

**Name:**

Finance Group Chat

**Actors:**

Financial division manager

Financial division employees

**Description:**

The financial division is using the groups section of the app to discuss their latest project and use jargon and symbols that are uncommon outside of their specialty

**Goal:**

This use case was selected for niche uses of chat to be supported by the software on multiple devices at once.

**Flow:**

1. Employee receives notification
2. Employee opens application
3. Message is displayed
4. Employee writes and sends a response containing Excel file
5. All other employees receive reply with a file preview

**Requirements:**

**Functional:**

The system will be able to store all files sent through the application within an archive for one month for extra, emergency redundancy

The application must offer two-factor authentication, as the contents discussed are sensitive

**Non-Functional:**

The program must be able to run properly low on low-spec devices (e.g. iPad 5th generation and pre-2010 computers).

The application must be able to handle high volumes of users within a single chatroom. There may be a chat with every employee in it, so it must be capable of handling more users than that.

Diagram

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**Table

Description automatically generated**

**Project Plan:**

**Communication:**

* Speak to shareholders to establish realistic expectations and requirements
* Meet with developers to establish the team

**Planning:**

* Team meets to divvy up projects for program
* Members schedule meet ups for collaboration within each sprint
* Designate which features are the highest priority
* Set reasonable requirements for prototype

**Modeling:**

* Team begins structuring the project
* Make estimates for component development and create rough timeline
* Team plans collaboration for component compatibility

**Construction:**

* Team begins to code the project
* Test documentation is created for use cases
* Testing is done to find and eliminate errors

**Deployment:**

* Product is delivered to ACME
* Application collects customer feedback
* Team begins working on the next update