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Group Name: The Wolves of Silicon Valley

Project Topic: Swift

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**Proposal**

* Messenger System
  + A simple messenger app that a user only has two choices what to send to their friends: a button for a set of greetings and plans to meet & “send chosen location”
    - login system
    - chatting system
    - map & map annotations
    - inputting map into the chat system

**Pitch**

Our proposal for the second semester project is a simple messenger system as a mobile application that a user can use to send both messages and information on the user’s current location. We think that this application has solid purpose for organizing students in St. Mark’s. In fact, the school may be able to replace the residential check-in system with this application, where the student sends the information of his/her current location to the faculty on duty. We are attempting to make St. Mark’s check-in system more convenient for all students and faculties by allowing the teachers to have an on-demand access to student’s current location.

**Envisioned Deliverables**

By the end of the year, we are hoping to produce an application used by IOS devices. The basic idea for our project currently is to build a generic messenger app and as time goes one we will add more functions to the application such as the ability to send a users specific current location, a generic location, emojis, videos etc. The first deliverable we hope to turn in is to learn how to use Swift, a language that the group is not familiar with. This will take us approximately one to two weeks in which we watch tutorials about the language, learn how to use it and create a very basic application on it such as dicey in java and turn that in.

The next step after that is to start creating our application with our newly gained knowledge about swift. We will start by making the most generic messaging app possible, this would be an app that would only send messages, not look aesthetically pleasing and have no real useful functions. This would take us approximately one week. Currently we think that we would be creating a messenger application. However, if we come up with another idea or application then we would make that, but the goal in that one week is to create the foundation for the application.

After the foundation of the app has been built, our group will be focusing on adding more and more different functions onto the app. Currently we are thinking of adding a button which allows users to send out their specific location at St. Marks or their general location in the world. This would take us approximately 3-4 weeks. If we do decide to change ideas, then the three weeks to four weeks would be spent on implementing a new function into the foundation of the application.

**Action Plans**

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| **Things we need to do** | **From ~ To** | **How Many Weeks** |
| Learn Swift (learn all the syntax that goes into swift) | Feb 8th ~ Feb 21st | 2 weeks |
| Design for the app | Feb 22 ~ Feb 28th | 1 week |
| Build a basic chat functioning app with PARSE | Feb 29th ~ March 6th | 1 week |
| Location service using...   1. wifi (for exact location)    1. which router are you closest to? (exact room number and location) 2. GPS (general location)    1. i.e. West/Main/Health Services/T-House | 1. March 7th ~ April 10th [March Break included] 2. April 11th ~ April 17th | 1. 4 weeks 2. 1 week |
| Compiling all the different parts together | April 18th ~ May 1st | 2 weeks |
| Clean up | May 2nd ~ May 16th | 2 week |