

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light greenish-blue. They are positioned diagonally, with the blue one partially covering the green one.

# CS100 Group Project FriendlyChat

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# Group Introduction

Project Manager: Jay Jinjuwadia

Scrum Master: Samuel Liu

Team Members: He Ruiwen, Kathleen Labog



# Project Introduction

- Our version of FriendlyChat allows users to:
  - have real-time database storage for data sent and received
  - user authentication login with Email or Google
  - converse with others by text messaging
  - send multimedia images or videos
  - the ability to create group chats



# Describe Process

## The Agile Process

- Software production process that prioritizes having working software and adaptability
- The process uses weekly sprints and documentation
- Adjusts each following week based on new priorities and the evaluation of last week



# Describing the Process Example: Breakdown of profile implementation

User Story: “As a user, I want to be able to create a profile”

- Create profile layout in android studio
- Add button to main page to go to profile layout page
- Implement a default display picture
- Add a button to change default display picture



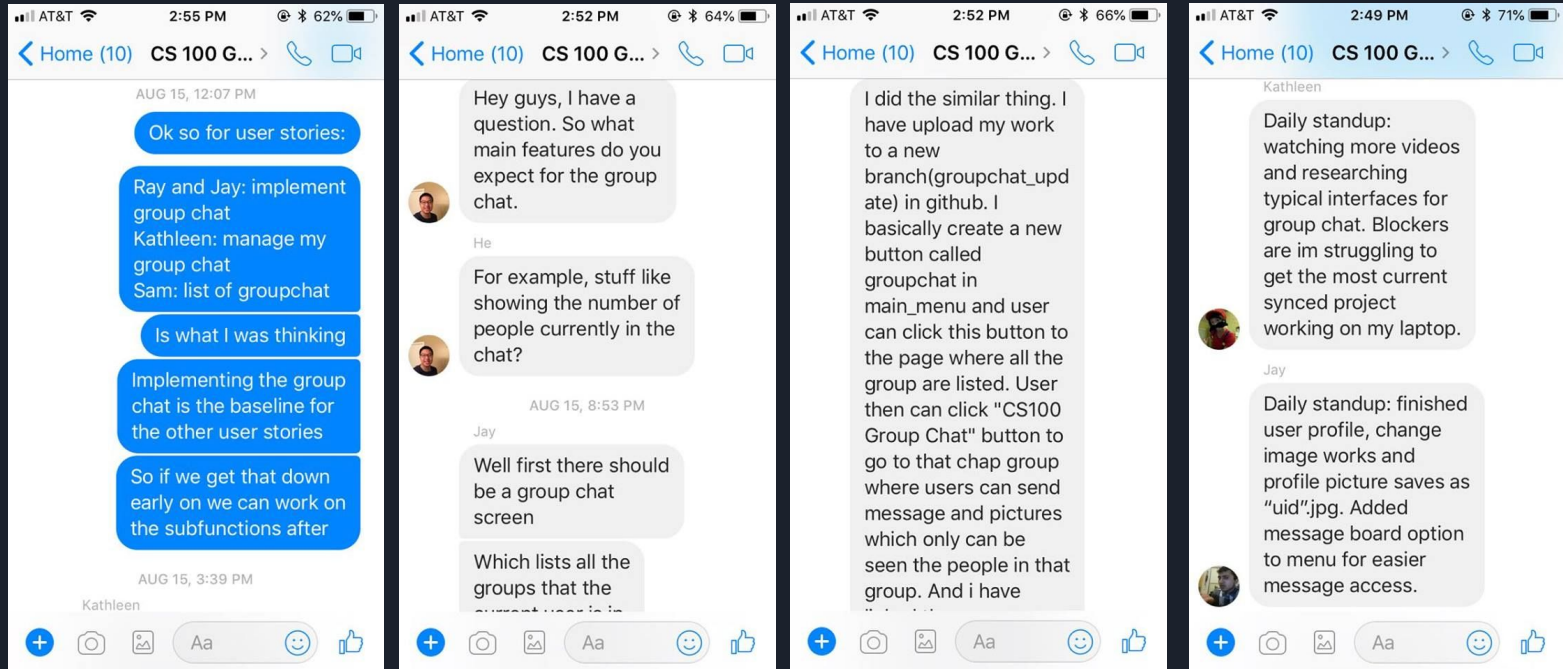
# Describe Process (cont.)

How our team adapted to AGILE:

- First Sprint: team members were still adjusting to communicating every day with daily standups
- Second Sprint: team members improve on communicating within the team and communicate with daily standups
- Third Sprint: team members ask each other for help and communicate efficiently to tackle a problem

# Describe Process (cont.)

## Examples of Team Communication:





# Features Implemented

- real-time database storage
- user authentication
- text messaging
- send multimedia
- create group chats/chatrooms
- add users to group chats





# Example: Profile Implementation

1. Create Menu option and xml profile layout
2. Create Activity which loads page and create a switch to this activity
3. Firebase Profile Photo Retrieval
4. Firebase Profile Photo Upload
5. Going to another user's profile



# Example: Group Chat Implementation

1. Group Chat page
2. Change MainActivity to accommodate Group Chat
3. Create Add Member Option
4. Create Add Member Page
5. Firebase Data Storage and retrieval



# Example: Chatrooms Implementation

1. Group Button
2. Close Button
3. AlertDialog function
4. Separated title
5. Real-time database
6. Firebase storage



# Backlog Progression: Week 1

- Story points completed during this week
  - Text messaging and picture message functions
  - Firebase Real-time database storage
  - User Authentication
- Unfinished story points for the week
  - no user story points were left unfinished this sprint



# Backlog Progression: Week 2

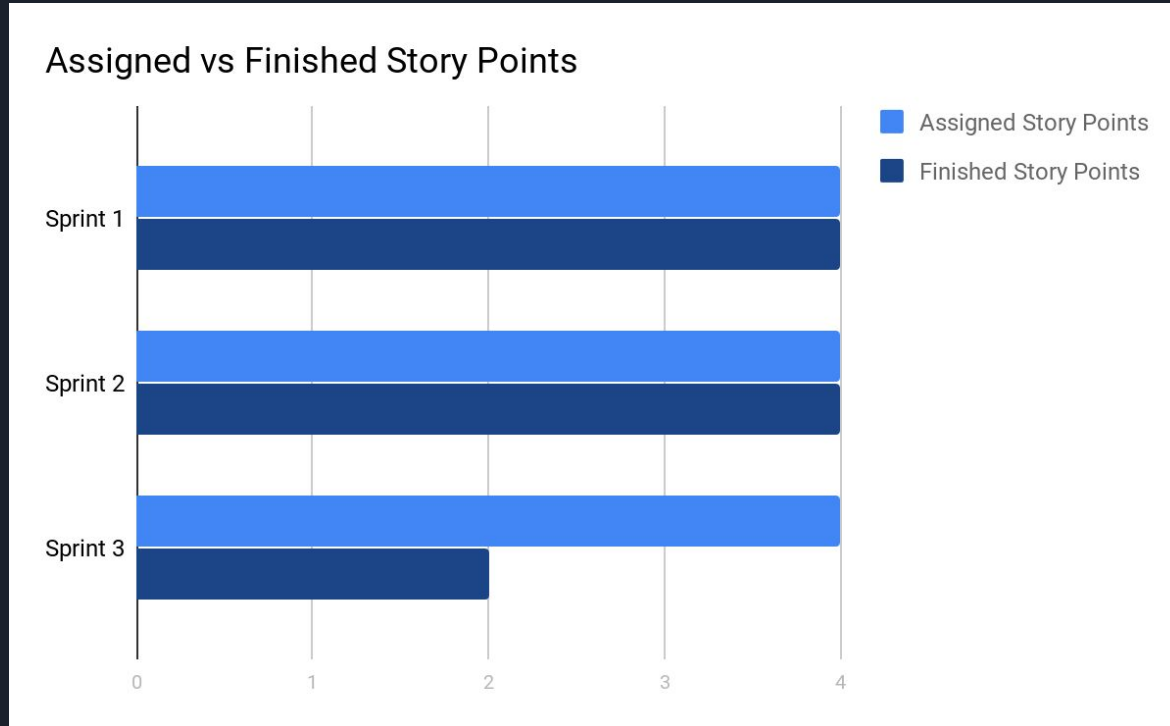
- Story points completed during this week
  - Text Messaging
  - Set Profile Picture
  - Basic profile display and management
- Unfinished story points for the week
  - no user story points for the app were left unfinished this sprint
  - Ongoing task: Learning Java



# Backlog Progression: Week 3

- Story points completed during this week
  - Implemented global group chat room features
  - Create group chat button
- Unfinished story points for the week
  - Group Chat room management
  - List Group Chats

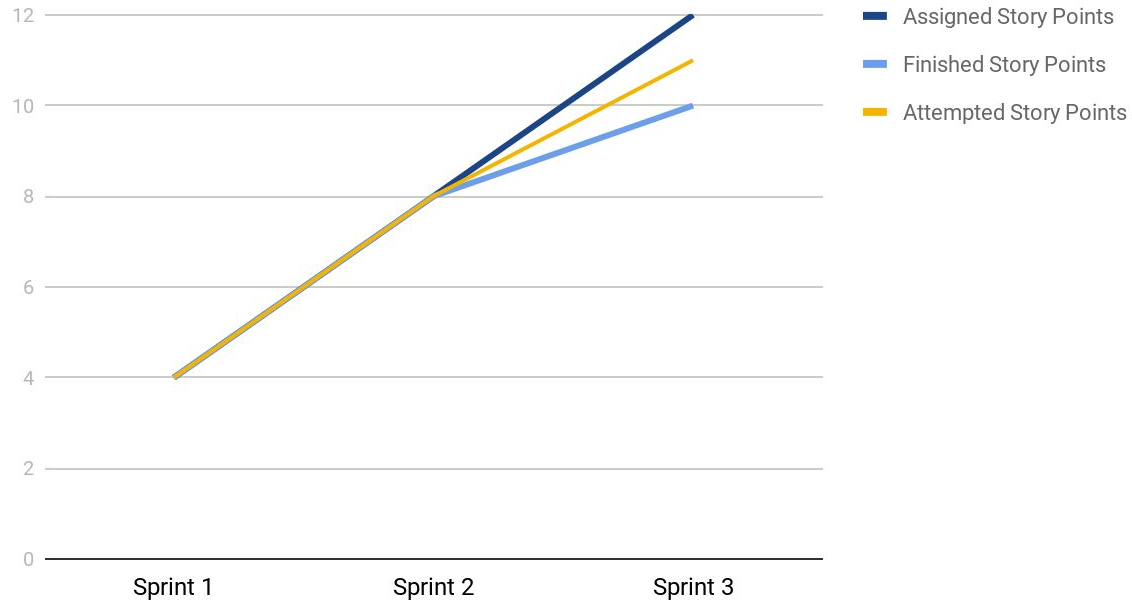
# Data Presentation: story points assigned vs story points completed



# Line Graph of Sprints

edit

Story Points (Total of 3 Sprints)







# Challenges

- Many Android Studio issues for the first few sprints
- Emulator issues for the first few sprints
- Scrum Master became sick beginning of Sprint #3
- Not all team members are proficient in Java



# Suggestions

- Include updated tutorials on Android development
- Suggest to students youtube videos that would aid understanding in application development
- Revise labs to focus on group project during busy summer schedule



Questions?