### Project Description

The team is currently creating a small social media platform that is usable from multiple devices and has a central server. The application is planned to feature user profiles, public posts, private messaging, and multi-user messaging. It is also planned to feature external interfaces that display the location of posts and have the ability to sign into individual users profiles from any computer with the application.   
  
Team

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### Class Hierarchy

Ex.

* Parent class
  + Child class

1. User
   1. User Profile
2. Public Post
3. Server
4. Client
5. GUI
6. Login
7. Create\_User
8. Message
   1. Direct Message
   2. Multi-user messaging
   3. Message History

### Class descriptions

**User:** Super class for user accounts, will hold all general information for user accounts. (Username, password, Account ID, etc.)

**User Profile:** A listing of all the public information a user has that will be posted on their profile page. (Public posts, contact info, etc.)

**Linked Accounts:** A listing of all other media accounts connected to a user

**Server:** The central authority for the platform, all information will be stored here and can only be reached through client requests

**Client:** Will connect to the server class and its connection is the only way to pull or put data on the platform

**GUI:** A multi paged interface that will allow easy navigation across the platform

**Login:** A singleton class for both creating a new user and logging in to a user account.

**Message:** A superclass for all messages, will hold general information about messages (timestamps, sending user, receiving user(s), etc.)

**Direct Message:** A class that will handle one-to-one messaging between users

**Multi-user Messaging:** A class that will handle many-to-many messaging between users

**Comment on Post:** A class that will handle comments made on other users posts

**Message History:** A log of all messages sent between users

**Public Post:** A status post that users can put on their public profile page

### GUI pages

* Login
  + Enter Username and Password
* User Profile View
  + View profile details (Name, age, posts)
* User Profile Edit
  + Edit your profile
* Messaging
  + Direct Message someone
* Group Messaging
* Message History
  + See past messages
* Public Post Wall
  + All public posts are displayed
  + Make your own post
* Comments
  + Comment on a post
  + Read other comment
* Account Linking
  + Connect our platform with others

External Interfaces

1. Google Maps - Google maps will be used for when users make a public post they can also post there location from google maps so that their followers and friends can get a better idea of where they are and can visit that location themselves if they would like a similar experience or go to an event.
2. Amazon Web Services (possibly) - This platform can be used for an extremely wide variety of uses such as a database so that we can save all our users information and posts more easily or it can be used to increase security of our platform or it can be used to use information from our users and perform analytics to find what out more about our users.
3. Firebase - this platform is going to be used to handle our login process and information to allow users to login to their account from any computer.