Active Teaming System
GROUP D

Diana Danh, Eduardo Emeregildo, Maliha Tabassum

System features:
- For a random visitor, the system provides a GUI showcasing the top 3 rated projects and top rating OU profiles and SU profiles to showcase the power of the system. A visitor can surf around to find more OUs/VIPs and projects
  - GUI provides top projects and users for visitor. Showcases them on homepage and allows users to visit the pages of OU/SU/VIP and complain about them. They can also view project description and titles from pages.
- Give visitor an option to register to be OU: the visitor has to fill in basic personal information such as name, email address, interest, credential and reference who are already an OU or VIP of the system. One SU will check these info to either approve or reject. If approved, the SU will send an email with account id and password, when the new OU first login, s/he is required to change the password. If rejected, the applicant has one chance to appeal and the SU will make a final decision to reverse the rejection: if still reject, then this visitor will be put in blacklist forever. The approved OU will receive an initial reputation score by the reference: an OU can give a score 0-10; a VIP can give score 0-20.
  - Visitor can sign up with sign up button. SU can reject or accept. If accept, visitor will receive email and can log in. If reject, visitor will receive email they can appeal. Visitor can reapply and SU can either accept or reject again.
  - If SU rejects again, user cannot sign up anymore and will be blacklisted
  - The reference email added will send a notification request to that user to give initial score.
- OUs can form groups by inviting other OU(s) for a certain purpose: the other OUs can accept or reject the invite. If reject, the OU should respond by the reason. An OU can put some OUs to his/her white-box: accept all invites or black-box: reject all invites with automatic message. For instance, the group could be some students taking 32200 as a study group.
  - User logged in can create a group on their profile page. They need to provide group name, project name, at least 4 users, and group description.
  - The users added will get a request on their group request page to join. They can either accept or reject.
- Once a group is formed, a group web-page should be made available that is accessible to all group members: some information is public to be browsed by visitors and other OUs, some could be set as private to the group members only such as evaluations and warnings. All group members can moderate and post to the group page. This page will be used for posting updates and scheduling meet-ups.
  - Group page is created and shows up automatically for the user on their profile page AFTER accepting. Group page shows posts such as polls and tasks. And users can create posts and polls if they belong to the group.

- Any group member can ask for a meet-up polling to find common time for all members to meet. Once all members responded, the time slot with the most votes will be chosen. If a member has missed scheduled meeting twice, s/he will receive a warning. The voted out member can appeal to the SU to possibly change the reputation scores. Each group member should have a track record for the number of assigned tasks that have been done, which is the foundation for the group warnings and the appeals of the affected group member(s).
    - Polls can be created by the users. Users can vote on the polls when they're on the page.
    - On the side of the group page, it shows the users and how many tasks they're assigned and how many they have completed. They can claim tasks on the group page as well.
- The group members can vote to issue a warning or a praise to a group member, the vote must be unanimous. A member receiving 3 warnings will be automatically removed from the group and get a 5 point reputation score deduction. The group can also vote to kick out a member directly, the member will be removed from the group and receives 10 point reputation score deduction. An OU with negative reputation score will be removed from the system and put into black-list automatically.
    - On the side of the group page, you can send a request to kick out a member. The request will show up on notification page. There, after everyone votes, it will trigger to count the votes. If it's to kick out member and votes are unanimous to kick out member, they will be kicked out and deleted group group database.
    - An OU with a negative score will have one last chance to log back in! They will get notification when they log in.
- The group members can vote to close the group and conduct an exit evaluation to other members. Each member will receive the median reputation score given by all other members. And every member can decide if s/he is willing to put the other member to her/his white-box or black-box afterwards and why. After group closure, the SU will assign a VIP to evaluate the group and determine a reputation score for the entire group to be added/deducted for all members involved. The system will keep a ranking list of finished groups to be showcased.
    - On the side of the group page, you can send a request to close a group. The request will show up on notification page. There, after everyone votes, it will trigger to count the votes.
    - If the accepts (yes to close group) are more than rejects (no to close group), it will send a request to the SU
    - SU will assign group to VIPs available and VIP will have to assign a score to everyone in the group based on the tasks completed by the group.
    - SU will review VIP's score input and close group.
    - System will keep a ranking list of finished groups to be showcased
- An OU whose reputation score is higher than 30 will be promoted to VIP; and a VIP whose score is lower than 25 will be demoted. All VIPs can vote one VIP as the democratic SU.
    - OU and VIP scores are checked after every change! Users can be demoted or promoted.

- Visitors and OUs can complain to SU about a group or other OUs, the SU will decide if the complaint merit action. The SU can decide to shut down the group or OU and punish all involved by a certain score deduction or even kick them out from the entire system.
    - Visitors and OU can complain about any group member, complain about groups, or complain about any member in the system.
    - SU can then review the complaints and decrease score accordingly based on request.
    - These warnings and complaints WILL show up on the user's profile page.
- OUs who are kicked out will have the final chance to login and do some final processing and will be unable to login ever after.
    - OUs who have negative score and are moved to black list have one final chance to log back in. After that, they are removed from users database and moved to blacklist where they can never log in again.
- The entire system keep a list of taboo word list, any message by any OU with these taboo word will be converted to *** automatically and the OU's reputation score will be decreased by 1: if s/he uses the same word again later, his/her reputation score will be decreased by 5.
    - Inputs in complaints and compliments are checked for taboo words. If taboo words are used, it will be converted to ***** accordingly.
- OUs can send compliment about other OUs to SU, and SU will increase the reputation score of the complimented OU, any OU receiving 3 compliments, regardless of the reputation score.
    - Users can send compliments to anyone in the system. 3 compliments will automatically increase score.

Other system requirements:
- Create Features:
    - Used Firebase as a database. Every change will be stored and saved. All items are updated based on the changes made while on the app.
    - Kivy is used with Python. This creates an app that will change based on screen size. App can be used on any device such as smart phone, tablets, or even computers!