Project Specification
Team 207: CMUMC

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Functionalities

User Management Module
- Registration: A CMU student can register an account for CMUMC by using Andrew email only. This ensures users are all from CMU and prevents potential security threats. User should provide username, first name, last name, Andrew email, phone number, year in school (optional), major(optional) and venmo account (optional).
- Log in: A registered user can log in at any time. And the user can choose to log in in helper or receiver mode.
- Log out: A logged-in user can log out at any time.
- Password Resetting: A user may reset his/her own password by a confirmation email sent to his/her Andrew email account.
- Switch mode: logged-in user can switch to the other mode while maintaining logged-in state.
- Stretch Goal: Users can sign up and log in via Facebook, Twitter.

Profile Module
- Show user's profile: Logged-in users can view other user's profile, along with the rating on it.
- Show one's own profile: Logged-in users can view his/her own profile, along with the rating on it.
- View one's own posts and task status (available, needs confirmation, waits confirmation, in-progress, or completed): Logged-in user can view a list of his/her own sent posts and the task status.
- Edit profile: Logged-in user can edit his/her own profile.

Post Module
- Send post: logged-in user can send post, containing task location, task availability (selected via Google Calendar), task description, category and compensation. User in helper mode can only send offer post, while user in receiver mode can only send request post. As for location, users can view the task location in Google maps.
- View posts (main page): users can view posts from either helper side or receiver side.
- Edit post: Logged-in user can edit his/her own sent posts. However, the user may not be able to edit or delete the task once it is accepted by other users.
- Delete post: Logged-in user can delete his/her own sent posts. However, the user may not be able to edit or delete the task once it is accepted by other users.
- Filter post: Posts can be searched by time, location, price, task type, task status (default to available).

Messaging Module
Twilio API will be used to complete messaging service. All the messages will be sent the user's registered phone number by using SMS.

Notifications:
- Reminder: Users will be notifies on the day of task.
- Accepted notice: When task accepted by one party, send accepted reminder request to the other party.
- Completed notice: Send complete request to receiver when both parties (receiver and helper) accept.
- When completed, send rating requests to both.

Direct contact:
- Users can directly contact the corresponding user by the registered phone number.

Calendar Module

Google Calendar API will be integrated here.
- Add to Google Calendar: Add the accepted task to Google calendar.
- Show availability: Availability shown on calendar that helper/receiver can choose.

Transaction Module
- Pay/Receive pay: users can complete payment by using venmo account shown on the user's profile.
- Stretch goal: utilize payment-based API to develop a transaction system similar to eBay.

Rating Module
- Rate completed service: helper and receiver can rate each other based on performance, and each user will receive a helper score and receiver score shown on his/her own profile.
- Reviews: helper and receiver can write detailed reviews for the completed service, less than 400 characters.

Data Models

A complete implementation of the data models used by CMUMC is showed as Django models. Please check the the codes in /src/webproject/cmumc/models.py.

UI Design and Wireframes

A complete set of wireframes for all non-trivial views within the CMUMC was uploaded into the repo. Please check them in the "wireframes" folder.