Project Specification

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Product backlog:

Our general product backlog is as follows:

1. Stream Page

1. #Global Stream
   There is a general global stream just like our homework 4-6 that everyone can add a post on it and read other's posts. These posts can support figures and words. Users can delete their own posts if they want.

2. #Local Stream
   There is a local stream, you can post something interesting on that channel and the content is only accessible to the people in that region (maybe in the same building).

3. #Local News Feed
   The function of the local news feed can be activated by the user. After activation, the website will offer some local news or information. The news & info in the same location will have a higher priority compared to user posts.

3. #Follower Stream
   There is a follower stream, you can see all the posts made by the people who you are following.

   Particular functionality for global, local and follower stream
   1. People can add or delete their own posts. The posts should be able to contain figures and words.
   2. Support rich text editor for adding posts and comments.
   3. Users can block particular people's posts.
   4. When the user has a post, he can set it as public or only visible to a specific group (a group that supports adding and deleting members).

2. Visualization

1. #Visualization of the statistics
   It provides some basic statistics info like the number of posts in each region and the number of users in each region in a nice visualization way.

2. #Visualization of posts on map
   The posts in your region will be visualized on the map. Users can click the red dots (representing a post) and check its content.

3. LOGIN System and Oauth

1. #Login & Registration
   Just like the homework, login system with user registration is provided.
2. #Oauth
   We will add basic Oauth. With basic Oauth functions, the user can login in and see the posts within a comparatively long period without typing in the username and password.

The first sprint backlog:

1. UI Design
2. Basic Login and simple Oauth system
3. Support post and delete operations for simple post and comment.
4. Add geolocation and support local stream

Product Owner

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Data Models

Post:
1. User: models.ForeignKey(User)
2. Text: models.CharField()
3. Image: models.FileField()
4. Font: models.CharField()
5. Time: models.DateTimeField()
6. Comments: models.ManyToManyField(Comment)
7. Geo: (float, float)

Comment:
1. User: models.ForeignKey(User)
2. Text: model.CharField()
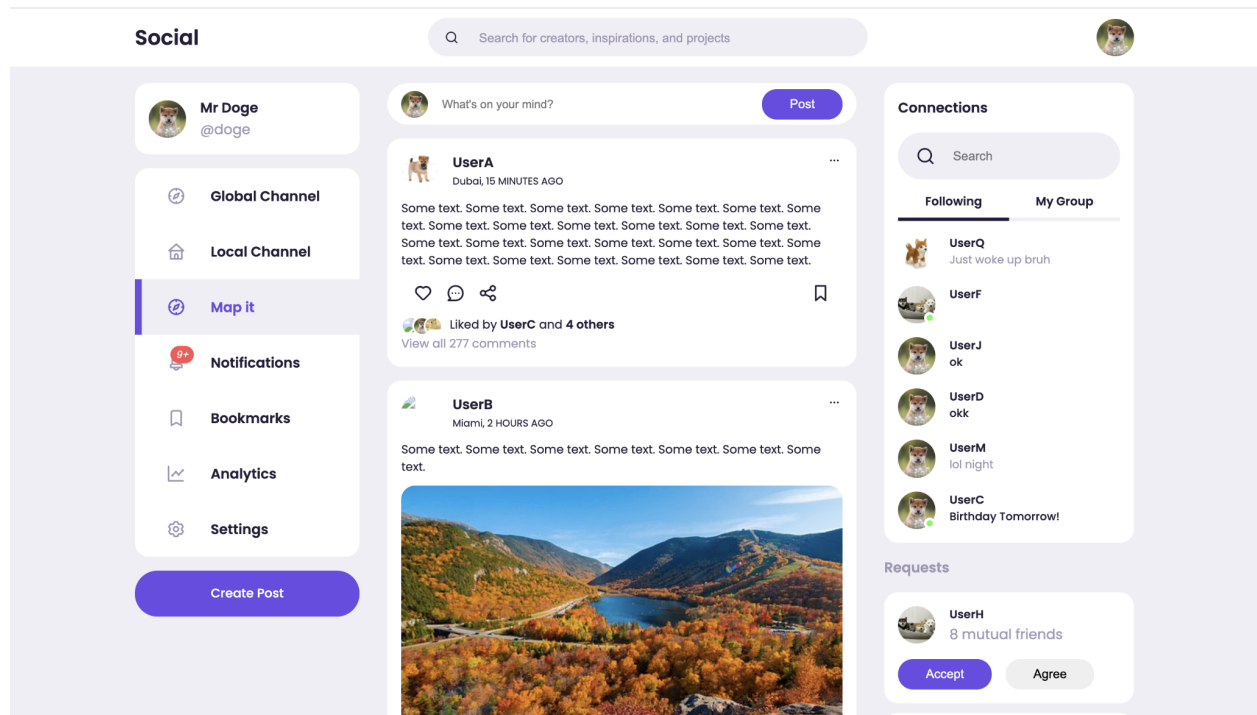3. ParentPost: models.ForeignKey(Post)
4. Time: models.DateTimeField()

Profile:
1. User: models.ForeignKey(User)
2. First_name: models.CharField()
3. Last_name: models.CharField()
4. Blacklist: models.ManyToManyField(User)
5. Following: models.ManyToManyField(User)
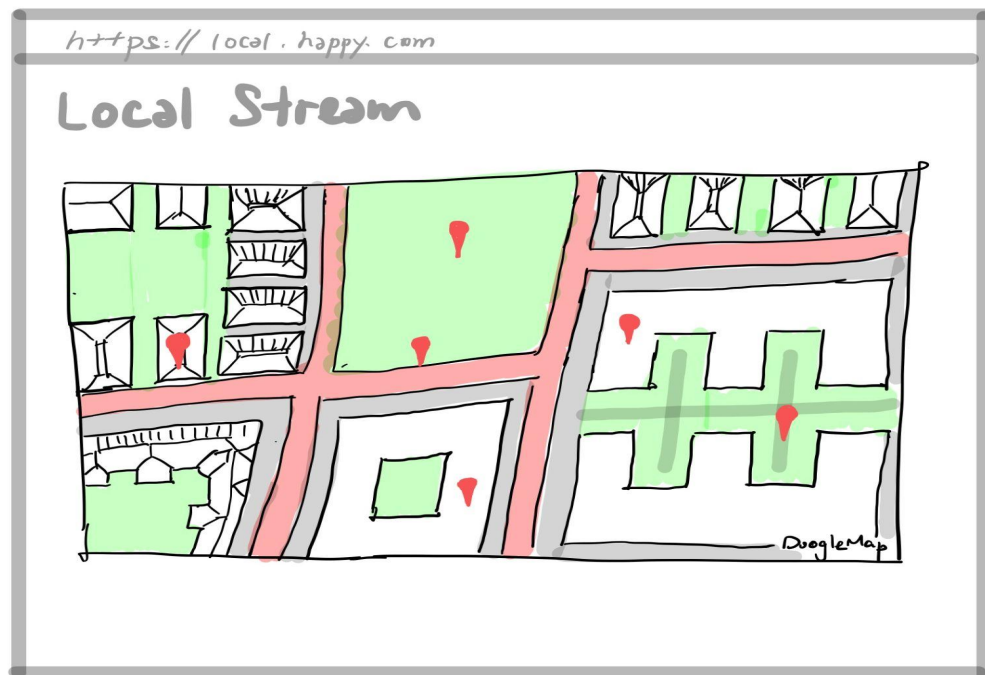6. Groups: models.ManyToManyField(Group)

Group:
1. Name: models.CharField()
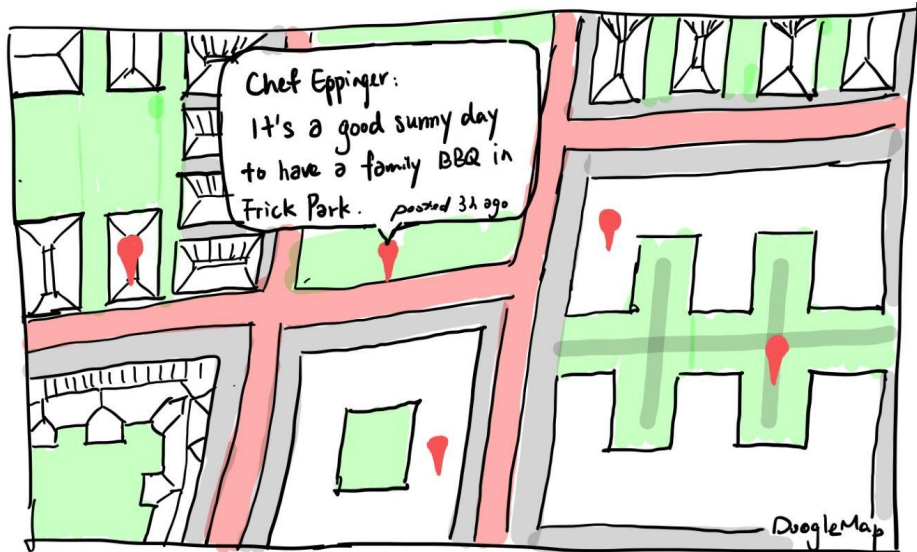2. Users: models.ManyToManyField(User)

HTML mock-up

Our UI design

Visualization of posts in your region

Onclick event on the map