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Team 1

Product BackLog:

Problem Statement:

- There is a lack of mobile application that allows you to anonymously share a moment with your local community through videos and pictures. The local community will be based on the individual's GPS location, so the posts they see and interact with will be gathered based upon a local proximity. The user may then interact with this content through upvoting, downvoting, flagging content and anonymously commenting on content.

Background Information:

- This application is for people that wish to interact anonymously with their local community through videos and pictures. This will allow for more specific and local news to spread without people being worried that their opinions will be persecuted.
- YikYak has similar local and anonymous features that our app intends to utilize, but YikYak is limited by the fact that only text can be shared (and a pictures worth a thousand words, after all). By using a different medium, the user may uniquely express themselves outside of text.
- Facebook and instagram allow for sharing of pictures and videos and rely heavily on the central idea of a user account and the creation of a network. Our application does not have a user account in the sense of having a profile by which you may network with others. Facebook and instagram also do not have anonymous features, nor do they limit content based upon locality.

Requirements:

- Functional:
 - As a user, I would like to connect with my local community.
 - As a user, I would like to take pictures with my phone to upload.
 - As a user, I would like to take videos with my phone to upload.
 - As a user, I would like to write text to be converted into an image to be uploaded.
 - As a user, I would like to anonymously post pictures to my local community.
 - As a user, I would like to anonymously post videos to my local community.
 - As a user, I would like to upvote and downvote posts.
 - As a user, I would like to comment on posts.
 - As a user, I would like to comment on comments [if time permits].
 - As a user, I would like to flag posts I feel do not belong on the social media.
 - As a user, I would like to search for content with a tag.
 - As a user, I would like to filter the content I see by tags.

- As a user, I would like to view content from areas I'm not in, but not be able to interact with that content.
- As an admin, I would like to remove flagged content.
- As an admin, I would like to remove content I deem inappropriate.
- As an admin, I would like to ban users.
- As an admin, I would like to undo bans if I want to.
- As an admin, I would like to be able to post messages that will be constantly at the top of the content feed until removed.
- As a developer, I would like to be able to make changes to the app after it is launch.
- As a developer, I would like to make the code as modular as possible.
- Non-Functional:
 - The content will be streamed to the app such that only a certain number of posts are loaded at the beginning of runtime. As the user scrolls down the feed and wants to look at more posts, content will continue to be streamed and loaded. Streaming the new content to the phone should happen in less than a few seconds.
 - The backend database will utilize data structures that are highly scalable and dynamic so that scaling with an increased user base will be automatic or as simple as changing a few numbers in a config file. For example, a dynamically sized hash table that detects when it is becoming overly full and resizes itself to the current load.
 - The main focus of our usability will be the front end user interface that will allow the end user to execute any action with only a few taps.
 - There will be no usernames or passwords to protect because there will be no accounts, the app will be tied to each person's phone. The posts are not hidden from any users so there would be little point to encrypting the posts that are stored on the database. The main concern would be people accessing the identifier attached to each person's phone; we are going to combat this by making a user talk to the user interfaces and then the user interfaces will talk to the database. In this way we can prevent people from requesting information that they shouldn't have.
 - This app will be developed for android and will be ported to other platforms if time allows. We chose android because it is an open platform that has a high market share and is most familiar to the members of the team.
 - The application will be ported to iOS [if time permits]
 - The application will be ported to Windows Phone [if time permits]
 - This application will have a tablet version developed for Android [if time permits]
 - This application will have a tablet version developed for iOS [if time permits]
 - This application will have a Windows Store application developed [if time permits]