GitHub Username: algo-rithm

Webknockers (webknockers.com)

Description

Webknockers connects and manages multiple website instances to an android application. The user configures a website with a javascript file, and allocates a space in the design for an appearing chat box. Whenever a new instance of the website is created, the owner of the android application receives a Notification to send a welcome greeting and initiate a chat session on the website causing the chat box to appear, or the app user can dismiss the Notification and the website goes along it's normal design algorithm without interruption.

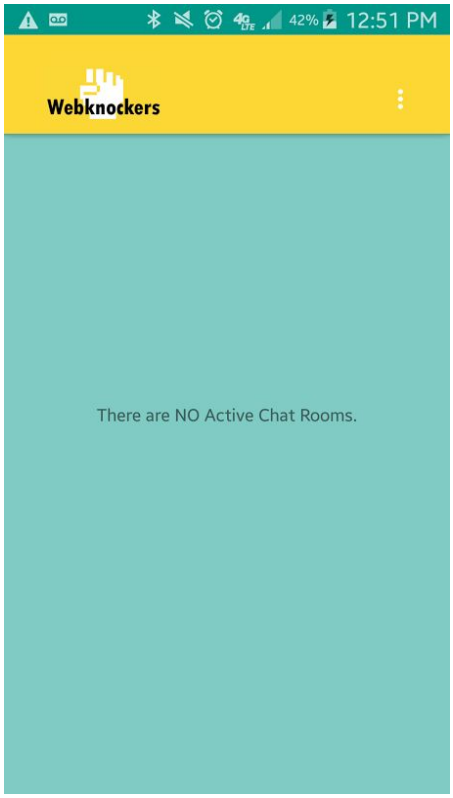
Intended User

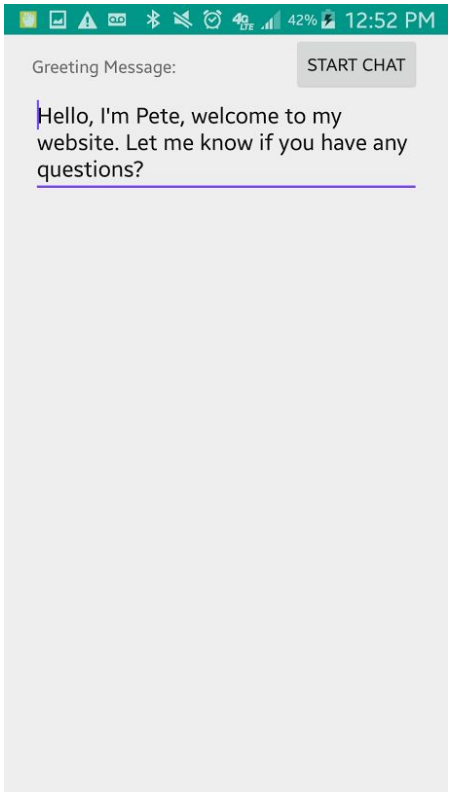
Any small business or individual who possess a website and is interested in immediate app to website synchronization. An artist could let someone viewing their website gallery know and inform them that they are currently in the studio and could easily launch a stream and give a tour with a prospective client. In some situations, a small business might only get 10 actual potential customers to visit their website a month, which makes the opportunity for interaction extremely important.

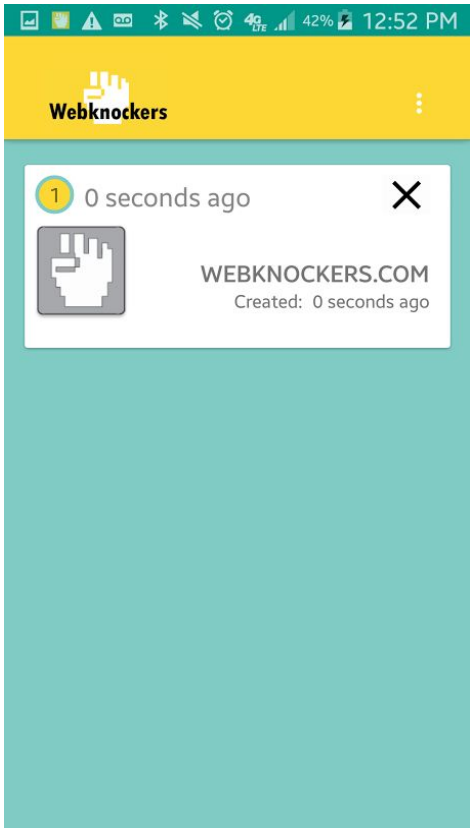
Features

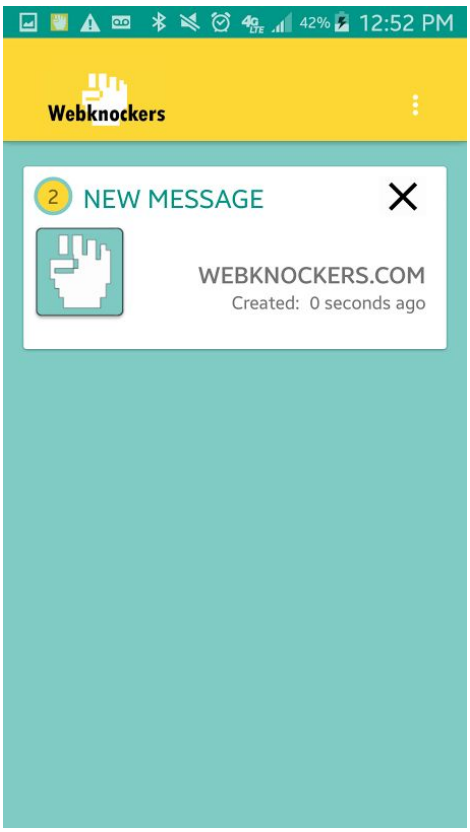
- Links private website with application (webknockers.com for this project)
- Creates and Manages engaged Chat Rooms
- Send Text or Take/Upload Images

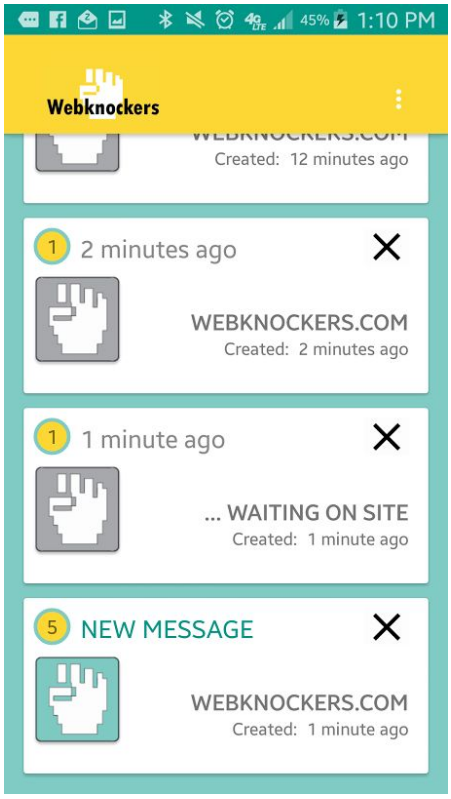
User Interface Mocks

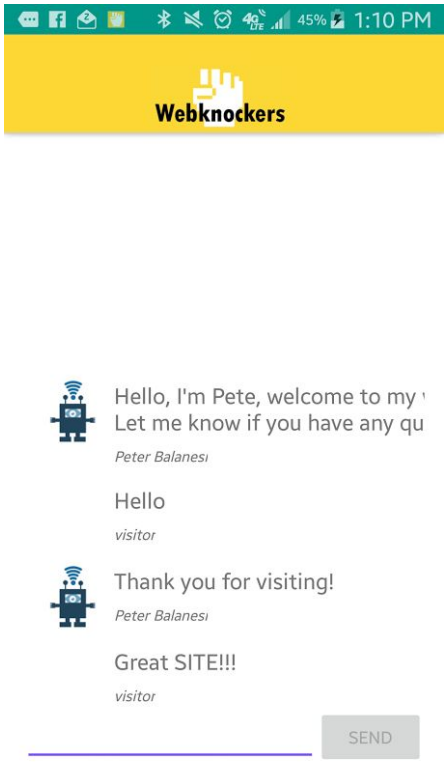

12:51 PM
Webknockers
There are NO Active Chat Rooms.


12:52 PM
Greeting Message:
START CHAT
Hello, I'm Pete, welcome to my website. Let me know if you have any questions?

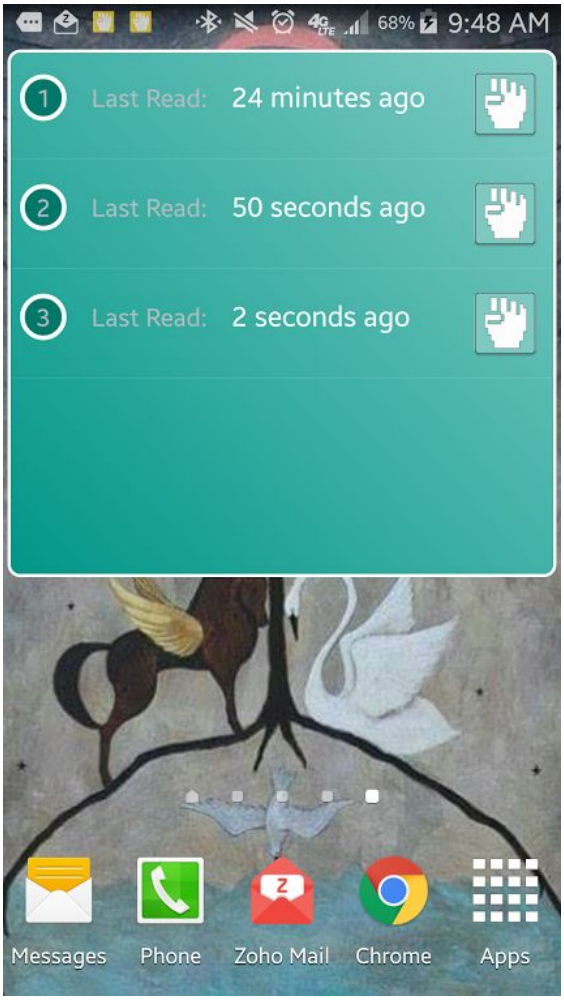

12:52 PM
Webknockers
1
0 seconds ago
WEBKNOCKERS.COM
Created: 0 seconds ago

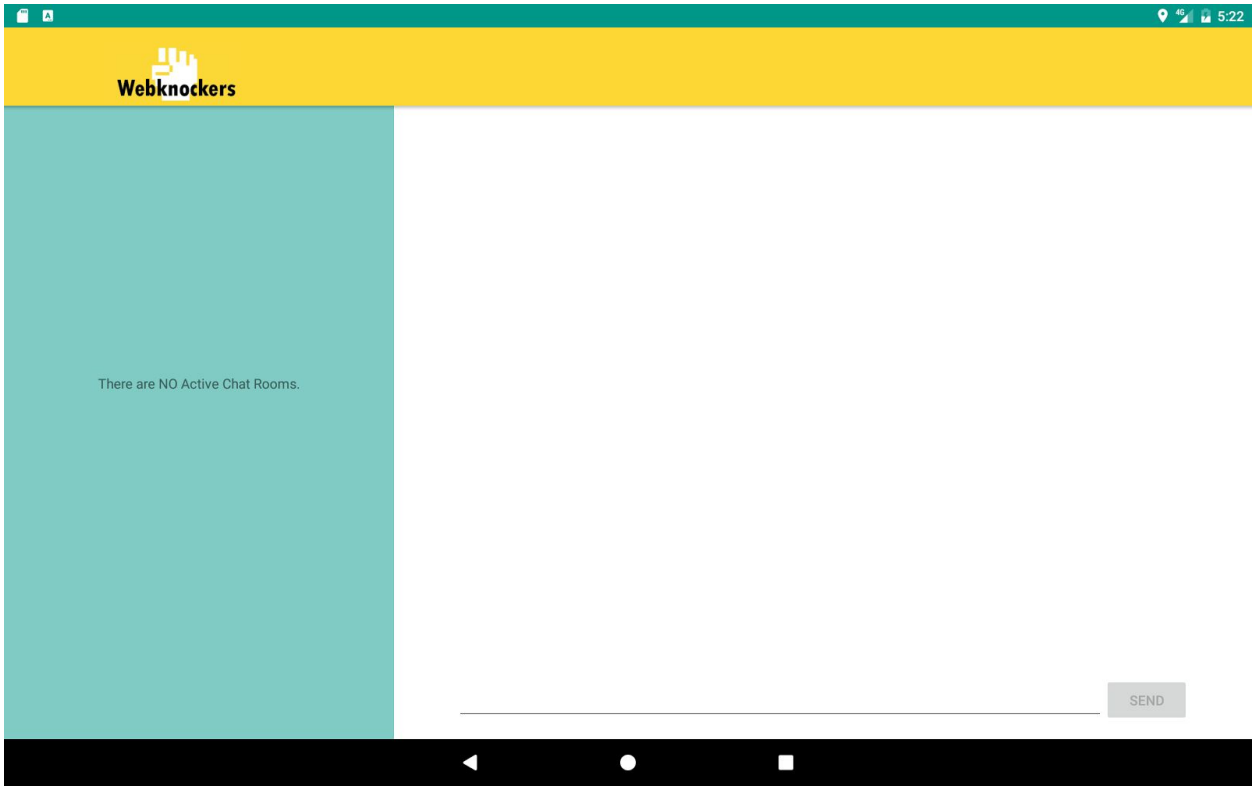

12:52 PM
Webknockers
2
NEW MESSAGE
WEBKNOCKERS.COM
Created: 0 seconds ago

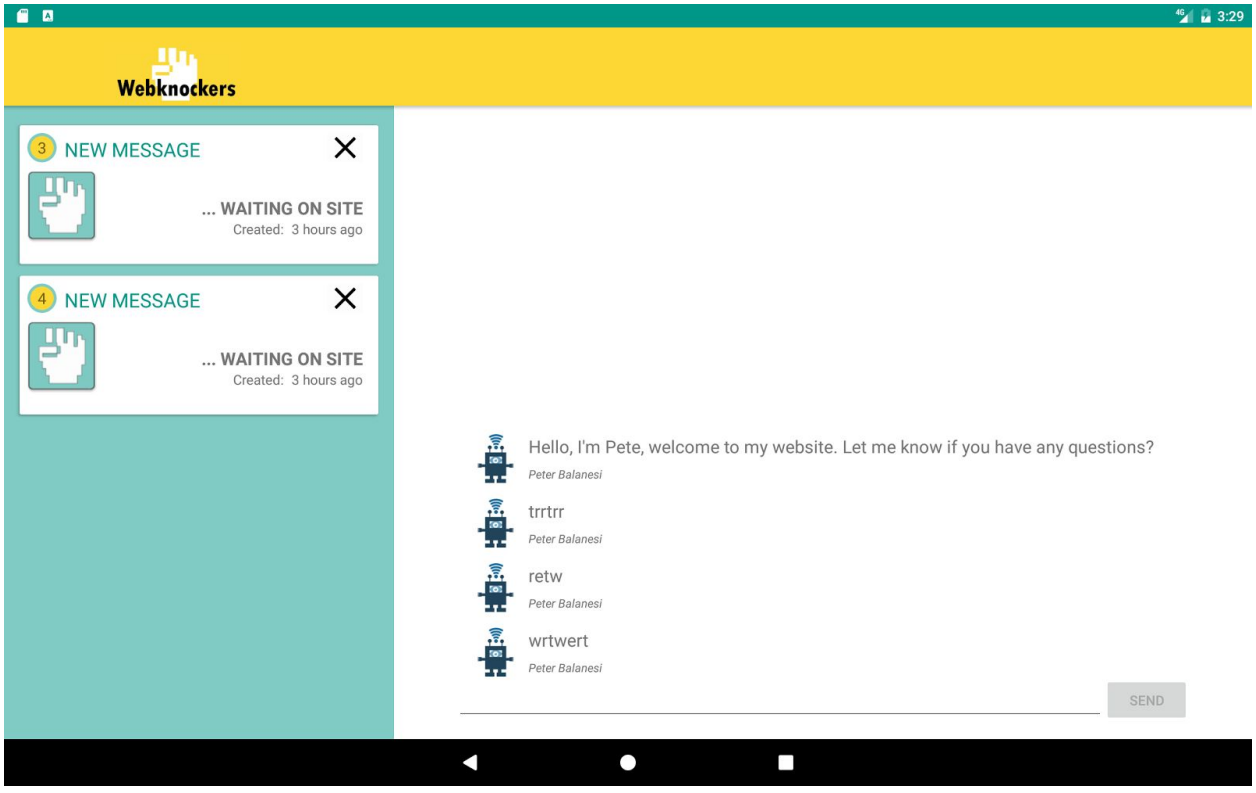

1:10 PM
Webknockers
Created: 12 minutes ago
1
2 minutes ago
WEBKNOCKERS.COM
Created: 2 minutes ago
1
1 minute ago
... WAITING ON SITE
Created: 1 minute ago
5
NEW MESSAGE
WEBKNOCKERS.COM
Created: 1 minute ago

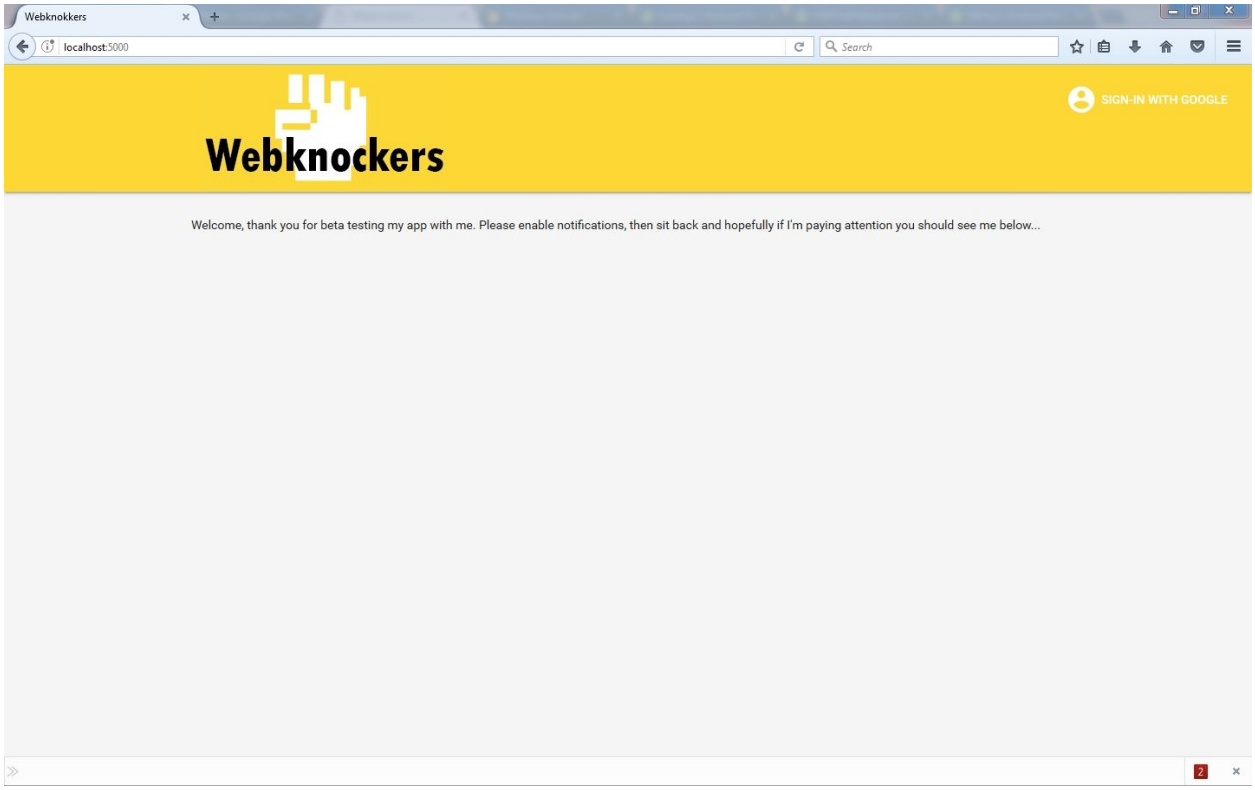

1:10 PM
Webknockers
Hello, I'm Pete, welcome to my
Let me know if you have any qu
Peter Balanesi
Hello
visitor
Thank you for visiting!
Peter Balanesi
Great SITE!!!
visitor
SEND

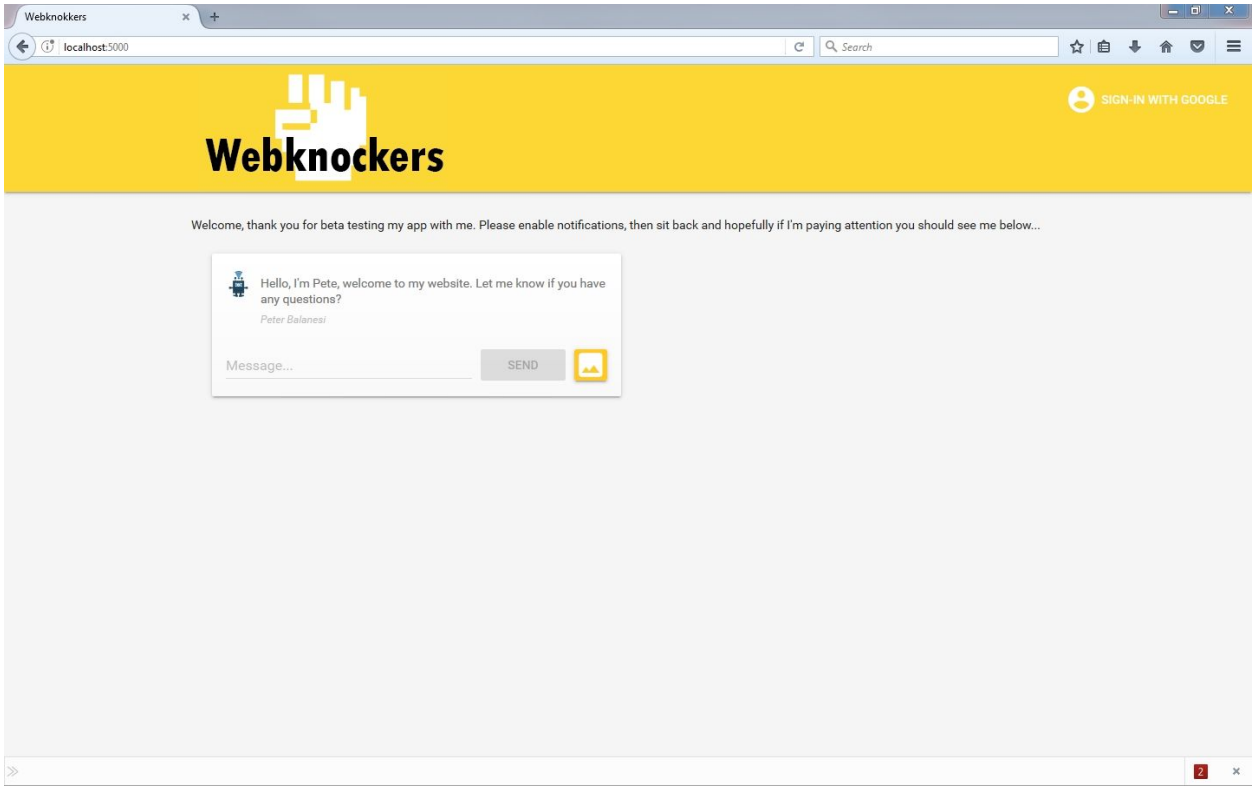
Widget →


68% 9:48 AM
1 Last Read: 24 minutes ago
2 Last Read: 50 seconds ago
3 Last Read: 2 seconds ago
Messages
Phone
Zoho Mail
Chrome
Apps


5:22
Webknockers
There are NO Active Chat Rooms.
SEND


3:29
Webknockers
3 NEW MESSAGE
... WAITING ON SITE
Created: 3 hours ago
4 NEW MESSAGE
... WAITING ON SITE
Created: 3 hours ago
Hello, I'm Pete, welcome to my website. Let me know if you have any questions?
Peter Balanesi
trrtrr
Peter Balanesi
retw
Peter Balanesi
wrtwert
Peter Balanesi
SEND


Webknokkers
localhost:5000
Search
SIGN-IN WITH GOOGLE
Webknockers
Welcome, thank you for beta testing my app with me. Please enable notifications, then sit back and hopefully if I'm paying attention you should see me below...



Key Considerations

How will your app handle data persistence?

Webknockers will use a content provider to manage the chat rooms locally cleaning up the chat database as need. The chat message database will be hosted on Google's Firebase and will be used to synchronize the chat messages.

Describe any corner cases in the UX.

Navigation is well thought out and carefully planned. Straight forwad Master/Detail pattern.

Describe any libraries you'll be using and share your reasoning for including them.

Glide - user profile images
Butternknife - make resources pooling easier

Describe how you will implement Google Play Services.

Google Firebase Auth
Google Firebase Database
Google Firebase Messaging

Google Play Services are used for OAuth logging, and Database synchronization, and Push Messaging.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Create website and configure with javascript file
- Create Backend Server to handle token registrations
- Configure App to work with website
- Configure Firebase to handle chat messages
- Build Content Provider to manage Chat Rooms
- Create UI
- Add Preferences
- Clean up Material Design, i11n and RTL

Task 2: Main Activity (Master)

- Create Master/Detail pattern with Fragments
- Load Chat Rooms from Content Provider into RecyclerView
- Provide OnClick Listeners for appropriate actions

Task 3: Chat Room Activity (Detail)

- Load Chat Room
- Synchronize messages from Google Firebase
- Record last message read for Main Activity

Task 4: Widget

- Create widget and link Chat Rooms

Task 5: Settings

- Add Setting for Auto Reply
- Add Setting for Default Message Greeting