Capstone_Stage1

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SyncPad

Description

With SyncPad write your notes and share across the all meeting participants. It uses Google's Nearby Message solution that merges meeting notes captured by all the members in the meeting. It is smart digital alternative over manual process. It is easy to use and allows cloud syncing that lets you access your meeting notes anytime anywhere. Hence, help your meetings to become more productive and effective

Now no worries of losing the important notes taken by you just because you lose your notepad. Have to leave off in middle of meeting? Don't worry you will not miss anything, read full version of MoM later using SyncPad.

Save paper, Go digital with SyncPad!

Intended User

Anyone can use this app, who wants to make their meetings or discussions fruitful.

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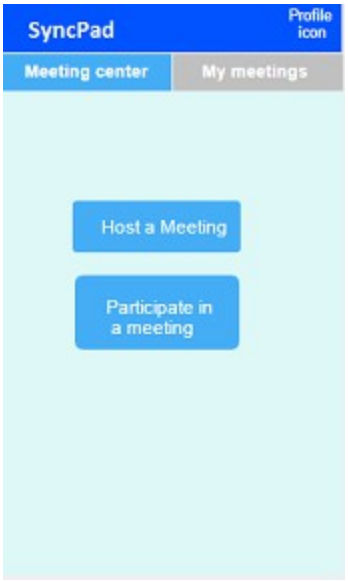
Features

Here are the main features of the app:

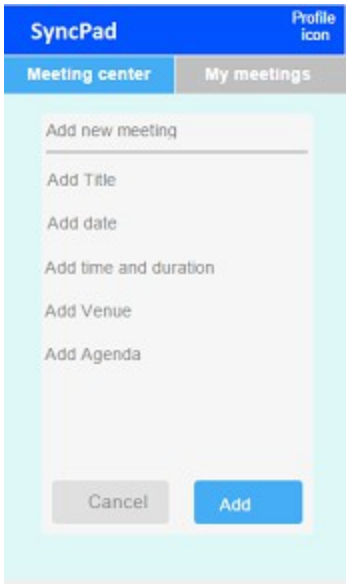
- User can write his notes and can exchang among the members participated in the meeting or discussion having this app. Also, at the end of the meeting, SyncPad combines the notes from all participants and forms the single note/MoM which will be available to all participants.
- App has functionality of creating user account so that user can access his data anytime. Also once cached user can read his notes offline as well.
- Apart from meeting of minutes following things also can be viewed,
  - Meeting agenda
  - Date, Time and Duration
  - Venue
  - Meeting participants list

User Interface Mocks

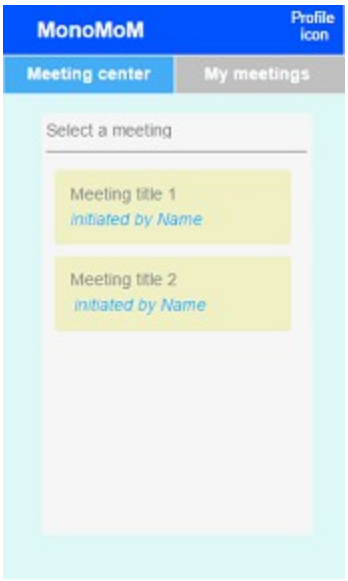
Screen 1 - User can initiate or join the meeting by tapping on “Host a meeting” and “Participate in a meeting” respectively.



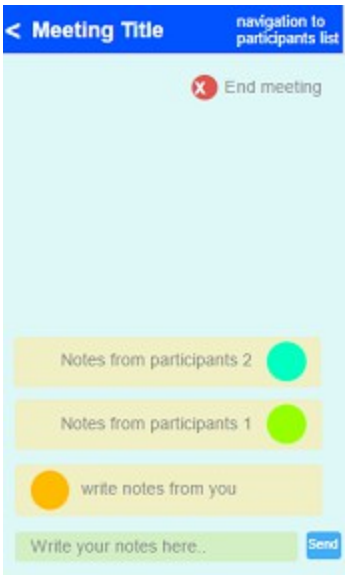
Screen 2 - On pressing “Host a Meeting”, pop up will appear where user can fill details of the new meeting to be start such as meeting title, date , time , venue and agenda etc.



Screen 3 - On pressing “Participate in a meeting”, user can view the meetings going around him. He can select any of the meeting and can involve in the conversation.



Screen 4 - Once meeting added , this screen will appear where user can write his meetings notes. These will be shared across all the participants in the meeting. It look more like chatting app. “End meeting” option will be available to meeting host only.



Screen 5 - It is same screen as fig 4. On tap of top right corner on the toolbar, sliding panel open from right to left where list of participants will be shown.

Screen 6 - Once host ends the meeting, this screen appear where notes from different participants will be shown including yours. Here cancel and save option provided to perform respective action on meetings notes.

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Sceen 7 - Under “My meetings” tab, user can view his completed meetings. On tap of individual meeting separate screen will open showing its details.

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Key Considerations

How will your app handle data persistence?

All data will be handled using content provider, loader. For storing and syncing data on cloud Google Firebase realtime database or custom server will be used.

Describe any corner cases in the UX.

User can jump onto other screen by tapping on button or Recycler view list item. And using back button user can come back to previous screen.

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

- Glide for loading user profile pic
- Gson to parse JSON data
- Retrofit to communicate over network
- Butterknife for better coding

Describe how you will implement Google Play Services.

- Google Nearby service which is heart of app
- Google Firebase realtime database and analytics for storing the data

Next Steps: Required Tasks

Task 1: Project Setup

- Project setup in android studio with latest build tools version and all required libraries
- Setting emulator / physical device for app testing

Task 2: Implement UI for Each Activity and Fragment

- Decide the color pallate for the app.

- Design the proper UI for each screen mention above and decide the navigation flow.

Task 3: Perform a POC on Nearby messages

- Develop POC on Google Nearby message API and implement simple chat screen as shown in fig 4 in User Interface Mocks section above.
- Also detect the participants around you and show its list using nearby.

Task 4: Save notes locally and display

- Save the meeting notes locally and display using content provider and loader as per the design

Task 5: Store and sync with Firebase databse or server

- Replace the local storage done in task 4 with Firebase realtime database or server.

Task 6: Error handling and Caching

- Perform all error handling such as no network connectivity, server down problem. Also perform thorough testing.
- Implement caching of notes so that user can access offline.

Task 7: Design and develop widget

Task 8: Implement accessibility

Task 9: Perform UI touch ups and implement advance UI elements