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Note

CSIX Connect is a non-profit organization I am involved in recent years. I have done an simple app (<https://github.com/fengsterooni/CSIX>) for the organization several months ago, but it is really pre-mature to be published.

I hope I can use what I learned from Android Developer Nanodegree to create a greatly improved app so that it can really benefit all CSIX members.

I might reuse some components or design from the previous app, but I will start new for this capstone project since there are so many changes for Android SDK/libraries, and I have learned a lot from Nanodegree program.

Here are the list of items I would like to implement:

- Use content provider to store data locally
- Use Google Cloud Endpoint to “generate/feed” new data sets
- Use material design (AppBar, coordinatorLayout, shared element transition, etc)
- Support for both phone and tablet
- Implement paid and free flavors
- Notification
- Widget
- And more...

GitHub Username: fengsterooni

CSIX Connect

Description

Communicate your need.
State your goal.
Improve your networking skills.
eXchange job leads.

CSIX CONNECT helps individuals in career transition to significantly improve their job search success through education, in-person networking and mutual support. In today's job market, more than 80 per cent of jobs obtained result from successful networking. CSIX CONNECT provides the means to tap into and leverage the power of a network that is already more than 7000 members strong.

This app intends to provide existing and potential CSIX members information about the organization, upcoming events, special interest groups, and direction to meetings...

Intended User

People in the San Francisco bay area seeking job opportunities and career transitions.

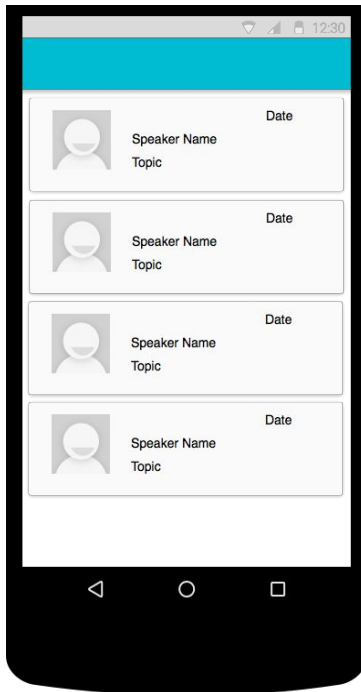
Features

- Update upcoming events
 - User shall be able to check upcoming CSIX events (Speaker and Topic)
 - Each event shall have separate page for detailed info
 - User shall be able to add event to their Google Calendar
 - User shall be able to share event to other people or media
- Direction to the meeting location
 - The App shall show the location of CSIX meetings (Google Map) and provide directions (based on user's location)
- Special Interest Groups (SIGs)
 - User shall be able to check SIGs of CSIX
 - Each group shall have separate page for detailed info about the group, meeting time, meeting location (map)

- User shall get directions for each meeting location
- Other Info
 - Info about CSIX
 - Link to CSIX website
 - Contact Info
 - Other bay area networking groups

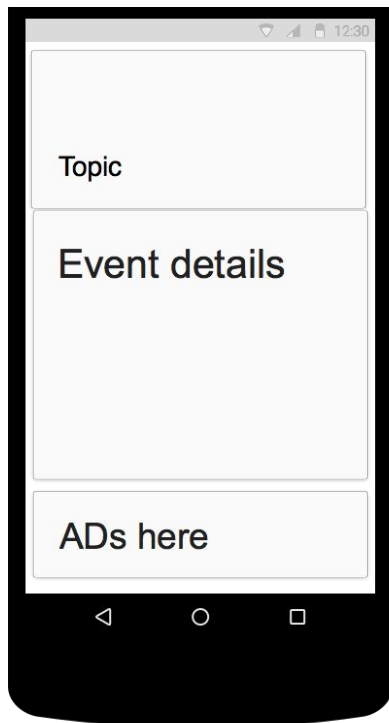
User Interface Mocks

Screen 1



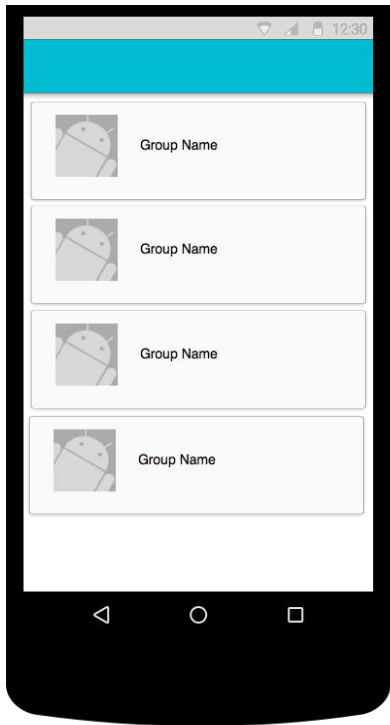
Event list

Screen 2



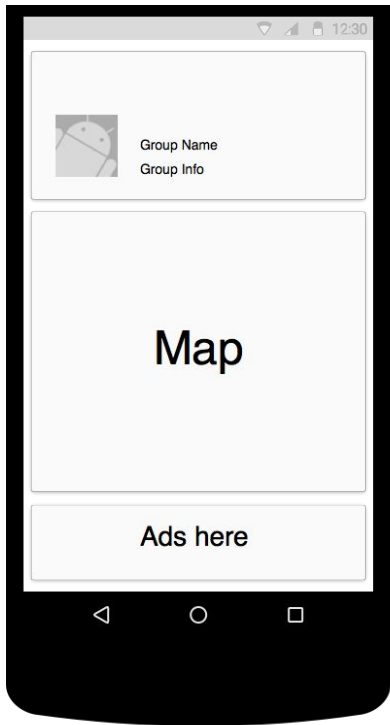
Event Details

Screen 3



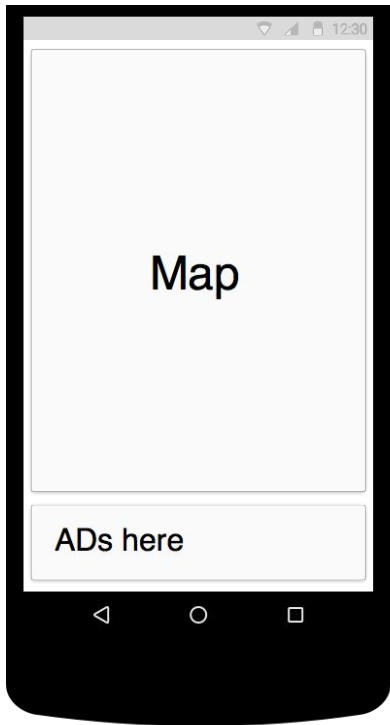
Group List

Screen 4



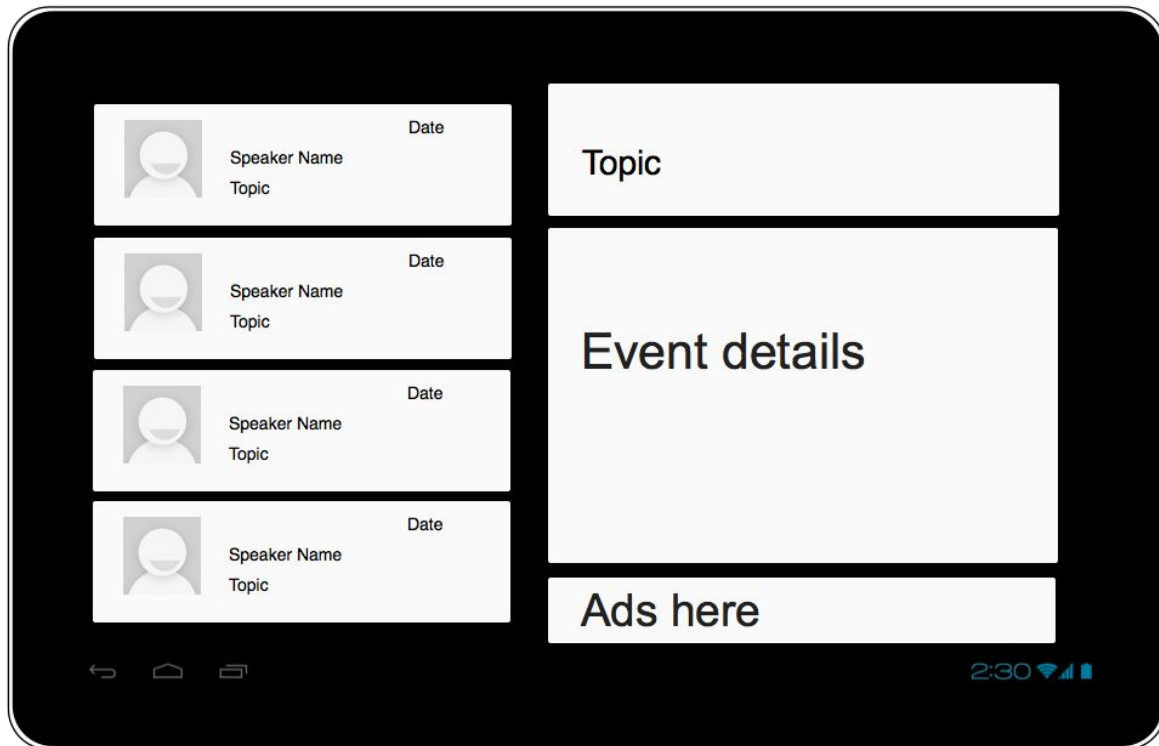
Group Detail

Screen 5



Direction

Screen 6



Tablet

Key Considerations

How will your app handle data persistence?

Will use content provider to store data locally. Since data is not updated frequently, intentService is good enough.

Describe any corner cases in the UX.

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

This project use following libraries in the project:

- Picasso - image caching and loading
- ButterKnife - view data/method binding
- Android Design - material design (layout, toolbar, etc)
- Google Play Service:
 - Google Map & Location - direction and map
 - Google AdMob - ads
- Google AppEngine - backend

Next Steps: Required Tasks

Task 1: Project Setup

Major steps to setup the project:

- Update Android Studio to latest stable version
- Update SDK
- Configure libraries
- Setup GCE backend module
- Setup Gradle dependencies

Task 2: Implement UI for Each Activity and Fragment

Subtasks for the project:

- Setup basic UI structure, Navigation Drawer
- Build top part of each activity/fragment (AppBar, coordinatorLayout)
- Build each separate activity/fragment and navigation/transition to and from those activities/fragments
- Build Master/Detail for Tablet Support
- Build UI elements

Task 3: Implement Data Models and **Content Provider**

Build up the data models, events and groups, and implement data persistence.

Subtasks:

- Create data model classes
- SQLite database setup and CRUD
- Loader/adapters and UI
- Notification

Task 4: Google Play Services

Subtasks:

- Setup initial Google Play communications
- Implement map fragment
- Get user location for directions

Task 6: Build paid/free flavors

Subtasks:

- “Break up” activities/fragments for each flavor
- Gradle dependency

Task 7: Others

Subtasks:

- Widget
- Accessibility
- RTL

Task 8: Testing

Subtasks:

- Rotation
- Phone vs. Tablet
- Performance