Capstone_Stage1

GitHub Username: coolzpeter

TCSME-LINK

Description

TCSME is a well known Chinese SME Commercial Association in Thailand. 90% of the association's members are entrepreneur. TCSME-LINK App will be the main information portal among the member's business.

As the association is growing bigger and bigger, there are some problem needed to be solved:

1. Most of the members are not aware of who is the other member and what they are doing.
2. As members are from different background and countries, they might have own prefer chatting apps such as LINE, WeChat, Whatsapp, etc. And also social apps like facebook, google+, weibo, etc. As so, it is impossible to make all the information synced as well as to do a proper RSVP for events.

Main Features:

1. News Feed
2. RSVP
3. Business Directory

Intended User

1. Association Member
2. Back Office

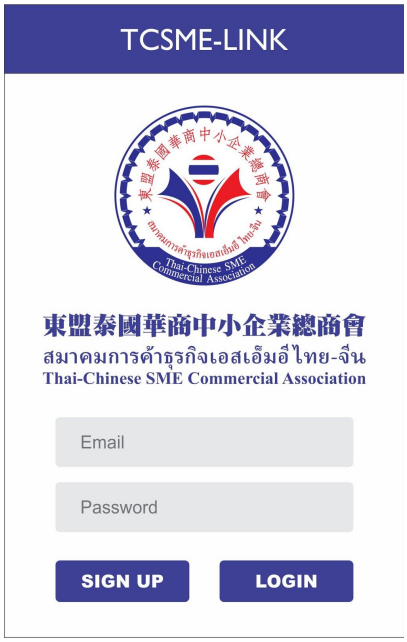
Features

The list of features:

- Add news (back office)
- Add RSVP (back office)
- View latest news of the association
- View and respond to RSVP
- Add Company info

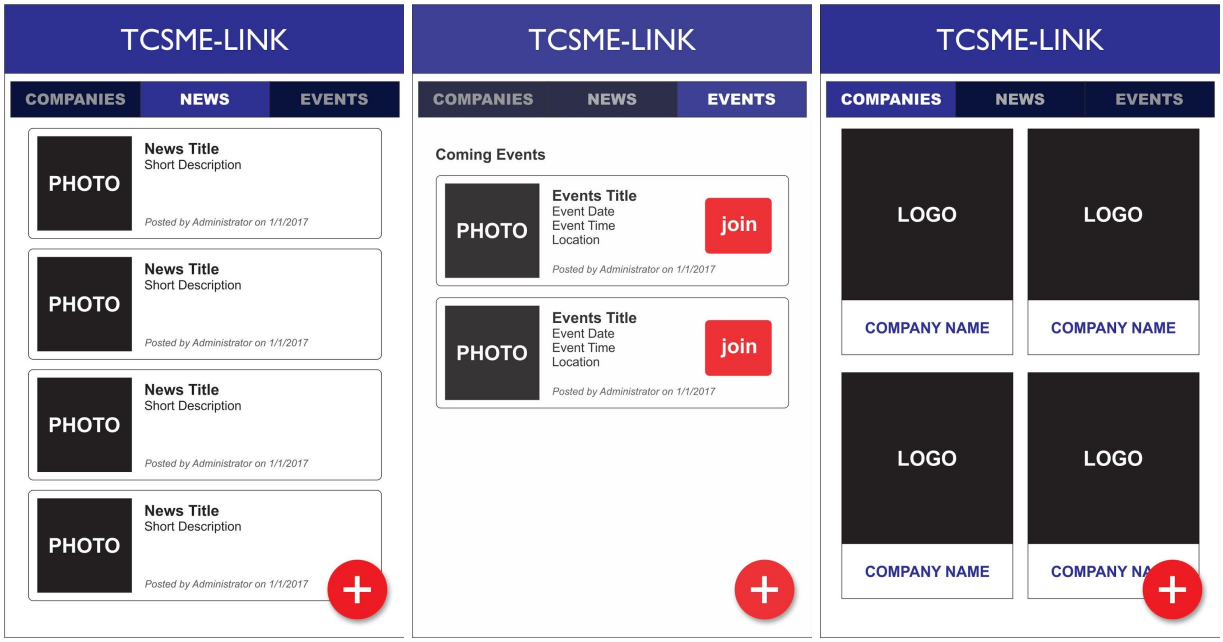
User Interface Mocks

Screen 1: LOGIN



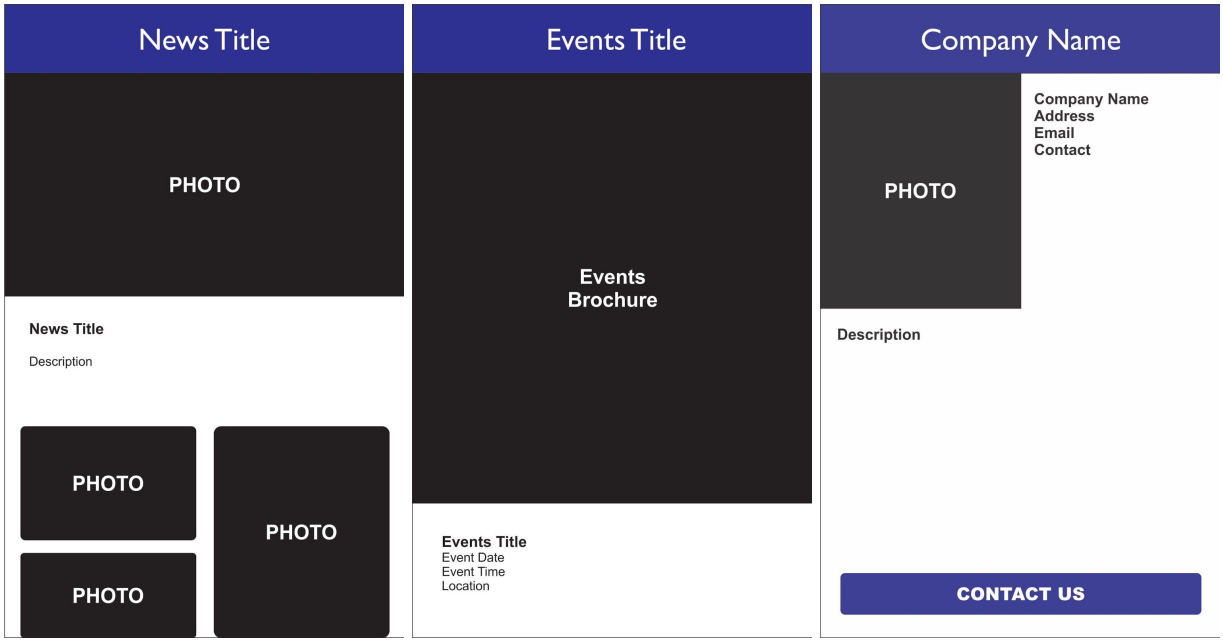
A simple login method for members. Only Email is needed because a lot of member doesn't have google account or facebook account.

Screen 2: Listing



Item listing for 3 main categories, news, events, and companies. Member able to add their company while backoffice able to add news and events. FAB Button of news and events are hidden from member.

Screen 3: Details



Item Details for each of the category.

Screen 4: Widget

Widget to show the nearest event the user registered.

Key Considerations

How will your app handle data persistence?

All the data will be stored in Firebase realtime database. Offline persistence will be handled by firebase as well.

Describe any edge or corner cases in the UX.

User will be lead to news section after login. User can scroll and swipe between fragment and enter the detail of each item selected.

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

Glide: To handle the images.
CoordinatorTabLayout: For item listing.
RecyclerView: To show large list of data.
ButterKnife: To bind data in the project.
Firebase library: For use with firebase's database, auth, and storage.

Describe how you will implement Google Play Services or other external services.

This project will be using firebase authentication, and firebase realtime database, as well as cloud storage for photo.

Next Steps: Required Tasks

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

Task 1: Project Setup

Subtasks:

- Import and Configure libraries
- Setting up project's structure: model, view, controller

Task 2: Implement UI for Each Activity and Fragment

Subtasks:

- Build UI for LoginActivity
- Build UI for ListingActivity
    - UI for newsFragment
    - UI for eventsFragment
    - UI for companiesFragment
- Build UI for DetailActivity
    - UI for newsDetailFragment
    - UI for eventDetailFragment
    - UI for companyDetailFragment

Task 3: Implement functionality for Companies Section

Subtasks:

- Configure firebase database for company.
- Build model for company.
- Add company to database. (push data to firebase)
- View company from database. (pull data from firebase)

Task 4: Implement functionality for News Section

Subtasks:

- Configure firebase database for news.
- Build model for news.
- Hide “Add News” FAB button from member.
- Add news to database. (push data to firebase)
- View news from database. (pull data from firebase)

Task 5: Implement functionality for Events Section

Subtasks:

- Configure firebase database for events.
- Build model for events.
- Hide “Add Events” FAB button from member.
- Add events to database. (push data to firebase)
- View events from database. (pull data from firebase)
- Save join event to local sqlite database.
- Save the participant to the database.

Task 6: Implement functionality for loginActivity

Subtasks:

- Singup and login by using firebaseui.
- For security and simplicity purpose, backoffice user will be manually inserted by using the firebase console.

Task 7: Implement Widget for participate events

Subtasks:

- Show participated future events for the user.
- Data will be pulled from local database by using ayncTask.

Task 8: Implement Notification for every events added

Subtasks:

- Implement Firebase Messaging service.