How to Use this Template

1. Create a new document, and copy and paste the text from this template into your new document [Select All → Copy → Paste into new document]
2. Name your document file: “**Capstone_Stage1**”
3. Replace the text in green

GitHub Username: mohamedhesham

chatApp

Description

It’s an app that allow authenticated users to write their messages in a secuirity manner and save their private data in the firebase to be available everywhere .

Intended User

It’s for family users who want to message each other or friends to save their data authorized in firebase.

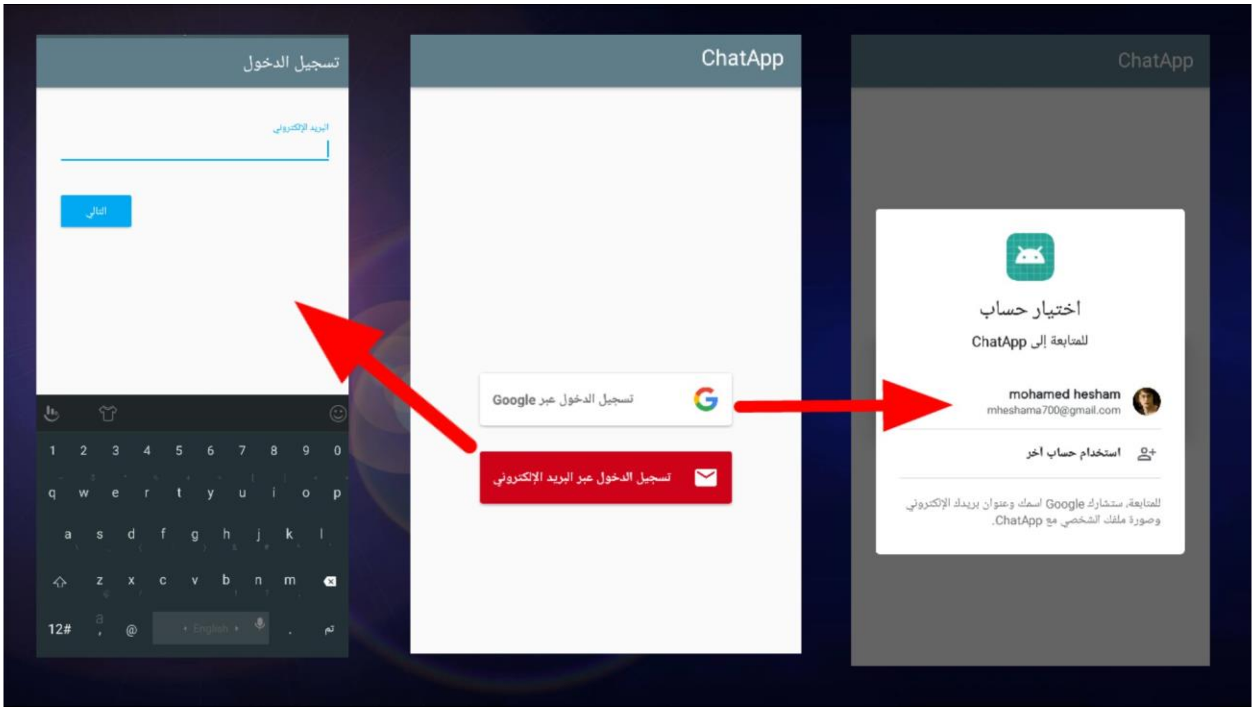
Features

- Java language will be used for development of the projct’s design
- Login in the app to start chatting using google or gmail
- Provide real time data represented in chat messages and images
- Provide All contacts
- Provide cloud messaging

User Interface Mocks

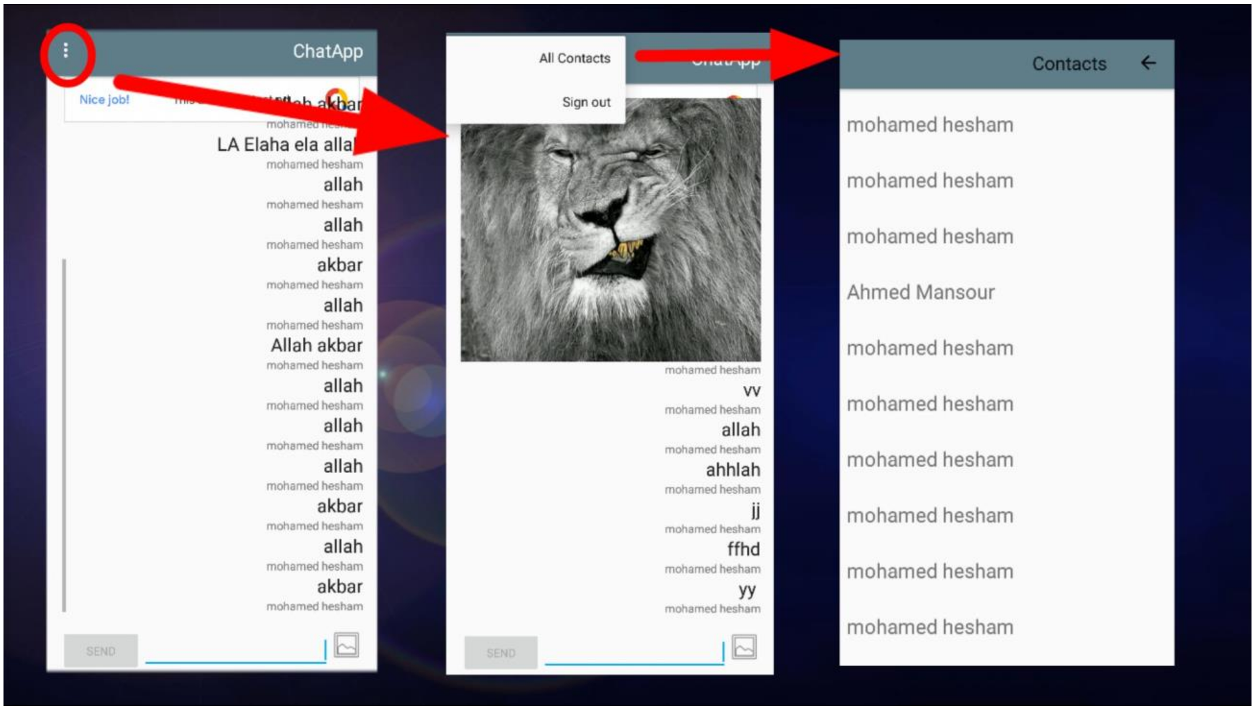
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

Screen 1



للمتابعة، ستشارك Google اسمك وعنوان بريدك الإلكتروني وصورة ملفك الشخصي مع ChatApp.

Screen 2



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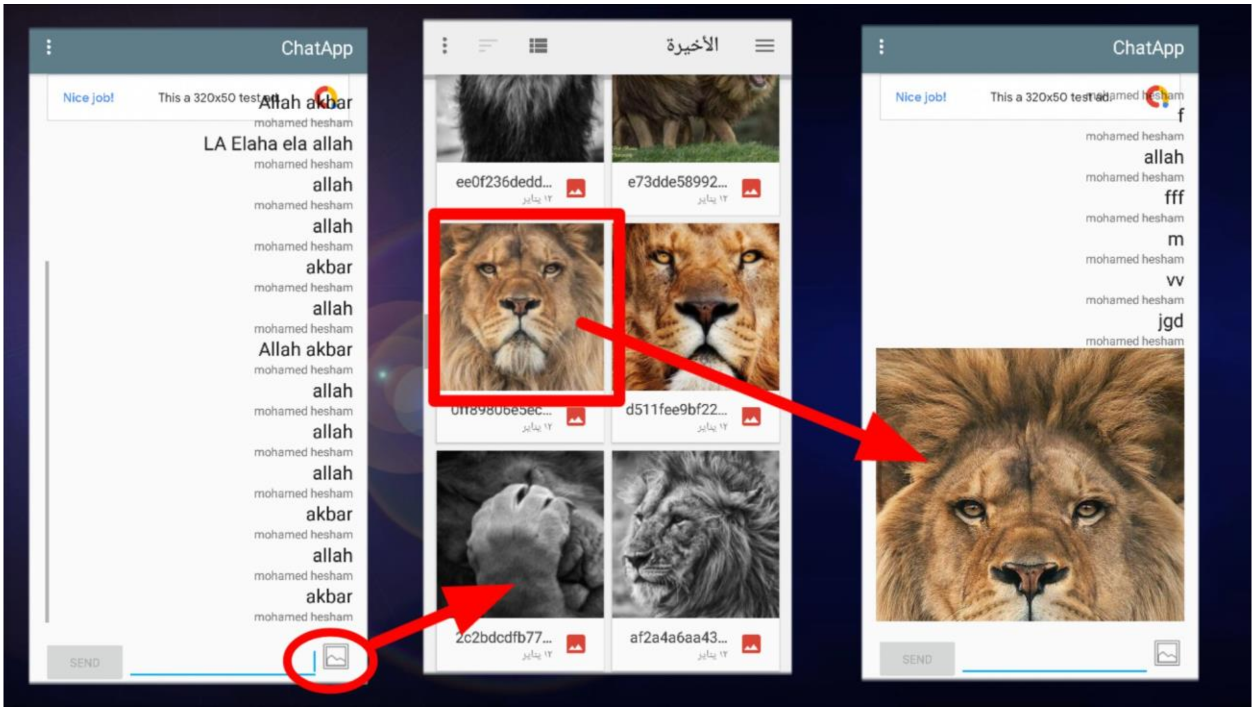
Screen 3



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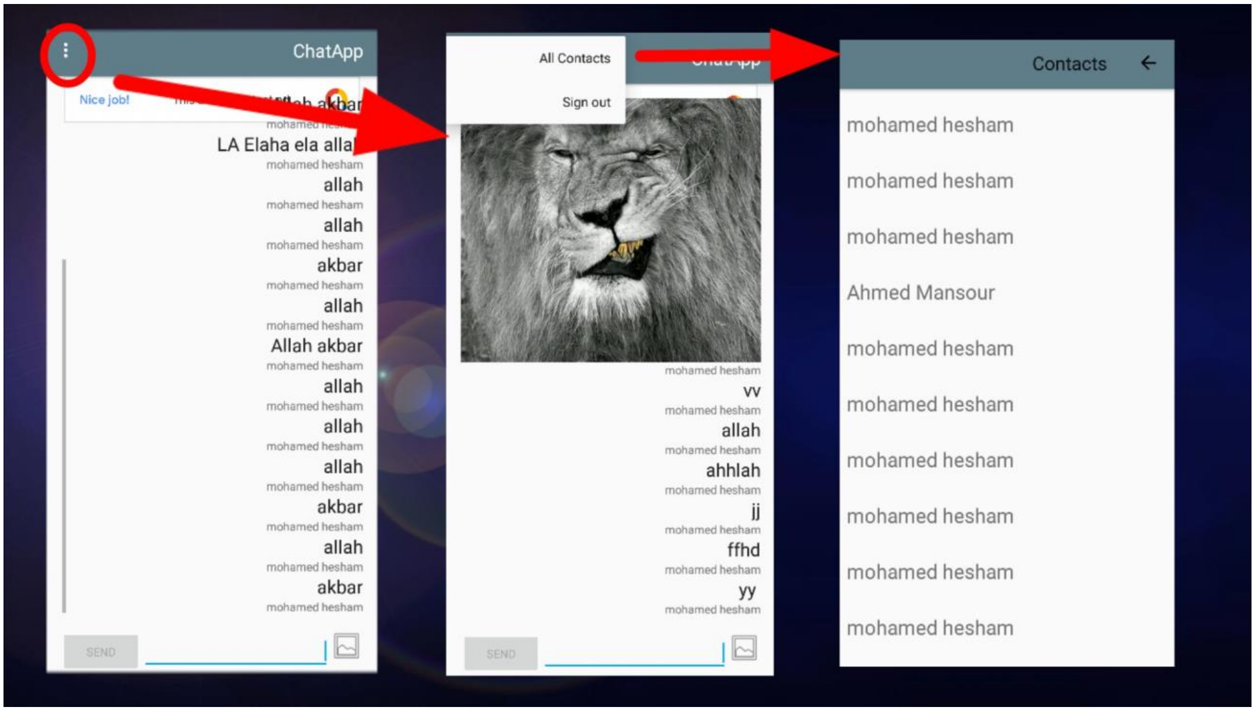
Screen 4



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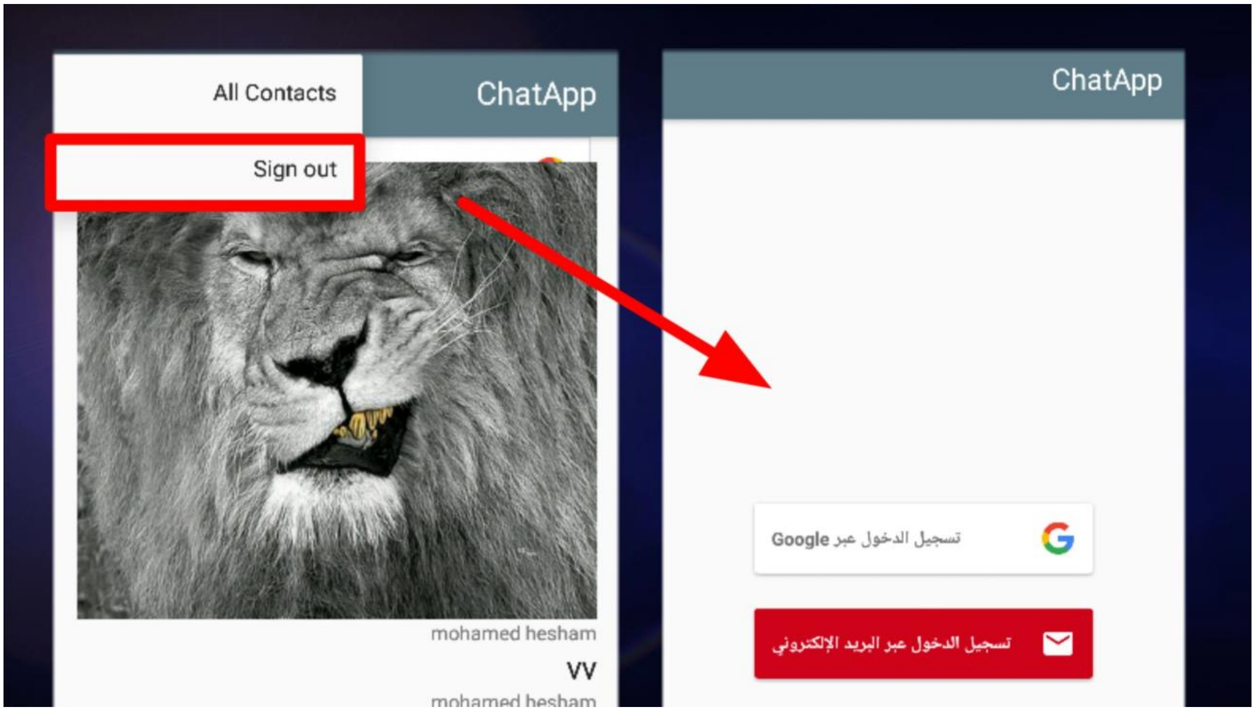

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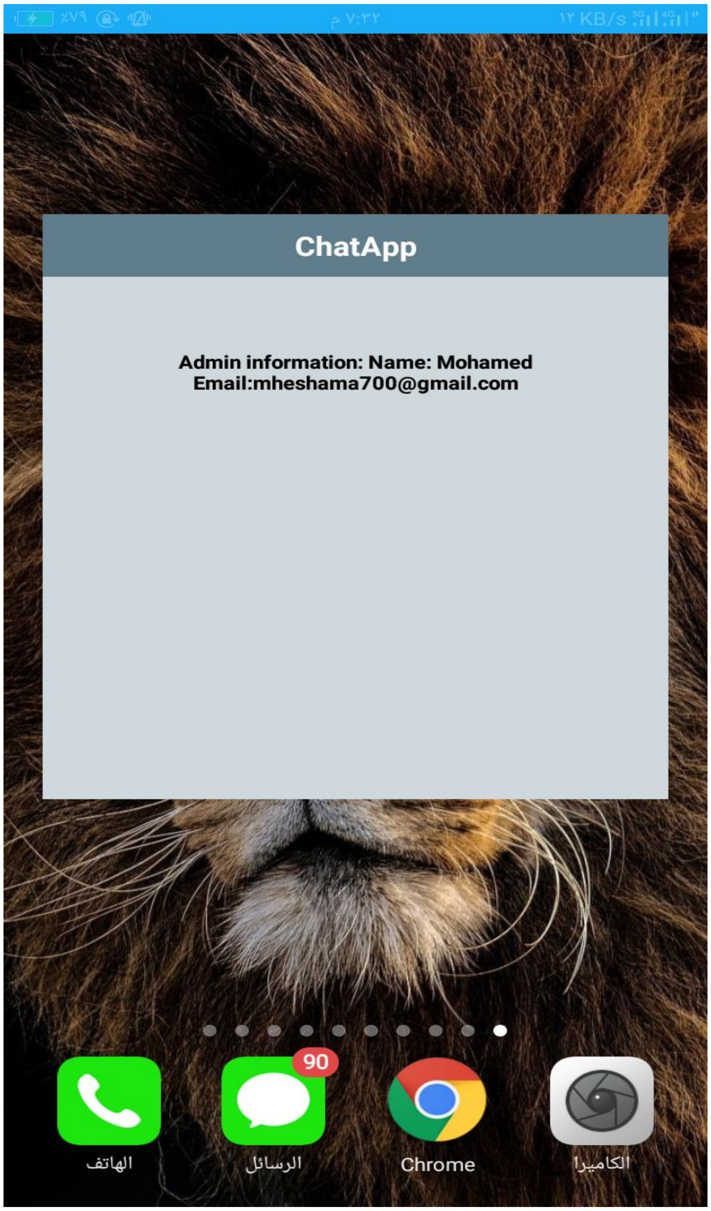
Screen 5 widget



ChatApp

Admin information: Name: Mohamed
Email:mheshama700@gmail.com

Key Considerations

How will your app handle data persistence?

This app use Firebase Realtime Database to save and read it's data.

Describe any edge or corner cases in the UX.

the user return to a main activity (chat) if he pressed on notification or if he pressed on widget TextView

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

Firebase authentication to authorize users version 11.8.0 and the same for firebase storage and auth
 Glide to handle image messages version 3.6.1
Admob for ads displayed on free version of the app version 11.8.0
FCM(Firebase cloud messaging) for push notifications version 11.8.0
Gradle version 1.0

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

Admob for ads displayed on free version of the app
FCM(Firebase cloud messaging) for push notifications.
Glide to handle image messages
Firebase Realtime Database

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

- Login the app to save user's name in contacts
- Configure libraries
- Show all contacts
- Log out from the app and login new user

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for contacts activity
- Build UI for single user contact
- Build UI for messages layout
- Build UI for chat widget

Task 3: Your Next Task

Google account login
Google cloud messaging
Mobile ads

- Activity_main
- App uses intent with action and pending intent
- Attach database listner
- Implement messages adapter and handle images messages in addition to sending new messages

Task 4: Your Next Task

- Create layout activity_contact
- Read and Update contacts in recycler view
- App keeps all strings in a strings.xml
- Content description in help activity

Task 5: Your Next Task

- Create widget

Add as many tasks as you need to complete your app.

Submission Instructions

- After you’ve completed all the sections, download this document as a PDF [File → Download as PDF]
    - Make sure the PDF is named “**Capstone_Stage1.pdf**”
- Submit the PDF as a zip or in a GitHub project repo using the project submission portal

If using GitHub:

- Create a new GitHub repo for the capstone. Name it “**Capstone Project**”
- Add this document to your repo. Make sure it’s named “**Capstone_Stage1.pdf**”