How to Use this Template
1. Make a copy [File → Make a copy...]
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Submission Instructions
1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: prashantsolanki3

Trans

Description

Translate your speech into Yoda or Pirate like Speech and share it with your friends and family. The application also provides famous yoda and pirate quotes. Translations and Quotes can be

starred to save them in your profile. The application also provides an option to translate in the text selection popup available in android 6.0 onwards.

Intended User

The app is intended for people you want to talk like Yoda from the Star Wars series or like Pirates. It is an entertainment application and can be used by anyone.
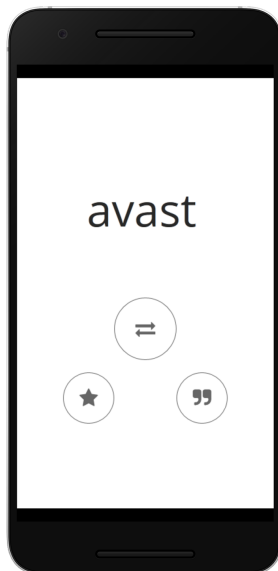
Features

List the main features of my app.
- Normal English to Yoda English translation
- Normal English to Pirate English translation
- Speech to Text Support
- Share famous quotes
- Save favourite translation
- Custom Text selection option to translate the text without leaving the current application.
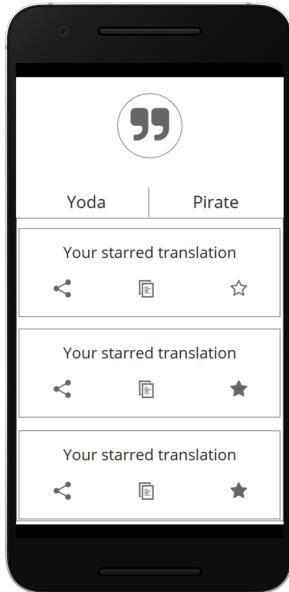
User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.
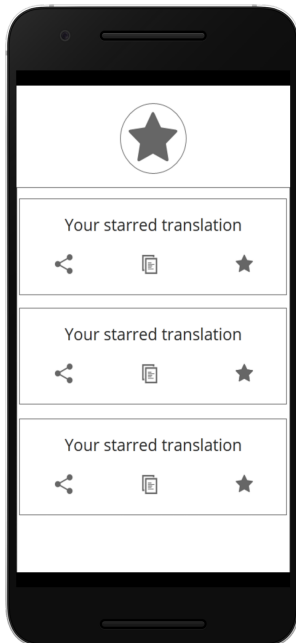
Screen 1

1. This is the home screen
2. It contains 3 buttons: translate, quotes, starred quotes/translations.
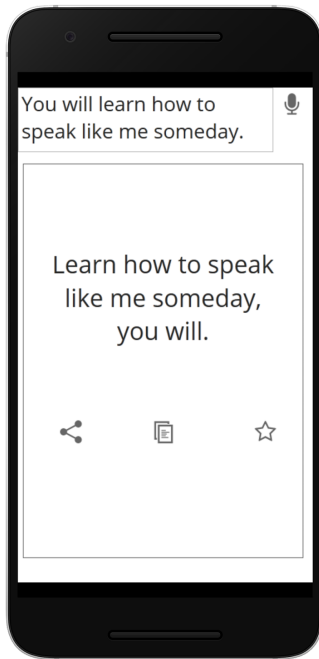
Screen 2

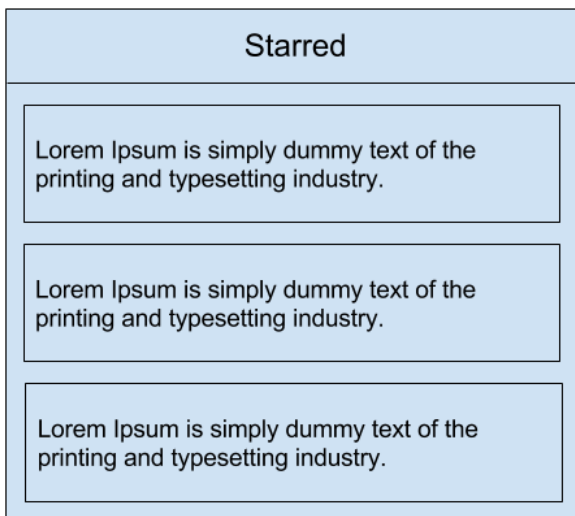1. This screen will show famous quotes

Screen 3

1. Starred quotes and user translation will appear here

Screen 4

1. Translation screen, text will be translated from here
2. You can share the translated text
3. Translation can also be starred and copy

Widget

1. Widget will list the starred translations/quotes

Key Considerations

How will your app handle data persistence?

The app will store its data with the help of a Firebase Realtime Database.

Describe any corner cases in the UX.

If the app is unable to translate the text, original text will be displayed.

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

1. Glide to handle the loading and caching of images
2. Retrofit for network calls
3. Firebase for maintaining database and google login
4. Design Library
5. APIs for translating text

Describe how you will implement Google Play Services.

Google Play Services that will be used are
1. **Admob:** This will be used to add advertisement.
2. **Firebase Database:** To maintain all the necessary data.
3. **Firebase Analytics:** To analyse the usage of the application.
4. **Firebase Authentication:** To sign in using Google and Facebook.

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

- Update Android Studio, SDK, etc
- Configure libraries
- Setup Firebase
- Setup Gradle Dependencies
- Setup basic third party library

Task 2: Implementing Database and Login Activity
- Setup API calls
- Setup database to store starred quotes/translations.

- Build Login Activity using firebase authentication
- JobDispatcher will be used to sync quotes.

Task 3: Implement UI for Each Activity and Fragment

- Build UI for Home Activity
- Build UI for creating Translation activity with viewpager for different translations.
- Build Quotes and Starred Activities
- Loader will be used to populate views

Task 4: Others

- Widget to display starred quotes and translations
- Accessibility
- RTL

Task 5: Build Variants

- Free and paid flavours in gradle

Task 6: Error Handling

- Rotation
- Optimising App for Tablets
- Enhancing performance
- Testing app for various plausible errors.

Task 7: Publishing App

The app will be published in this step.

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

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