MOBILE APP

FIND NEAR

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AGENDA

- Requirement Elicitation
- Build Prototype
- Product Development
- Product Release

REQUIREMENT ELICITATION

Feature Request:

Build an App that provides the user an ability to enter a 4 street addresses in a field (For example, TextArea or similar) in the form of Strings (street name, pincode, city, country). The app then uses the phone’s resources to get the current location of your handheld device and finds the nearest address from the user’s specified addresses. Finally, the app displays the address which was nearest to the device location together with the computed distance.

REQUIREMENT ELICITATION

Feature Request

User Story

ID	As a ___	I want ___	So that ___
US1	user	one screen	I can type 'to address'.
US2	developer	one screen	the app display results.

BUILD

PROTOTYPE

Feature Request

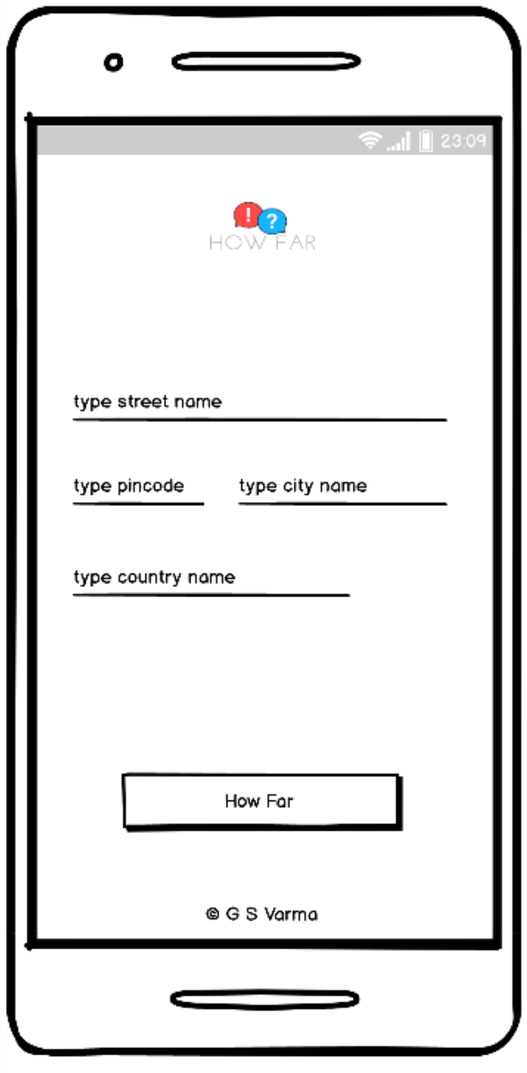
User Story

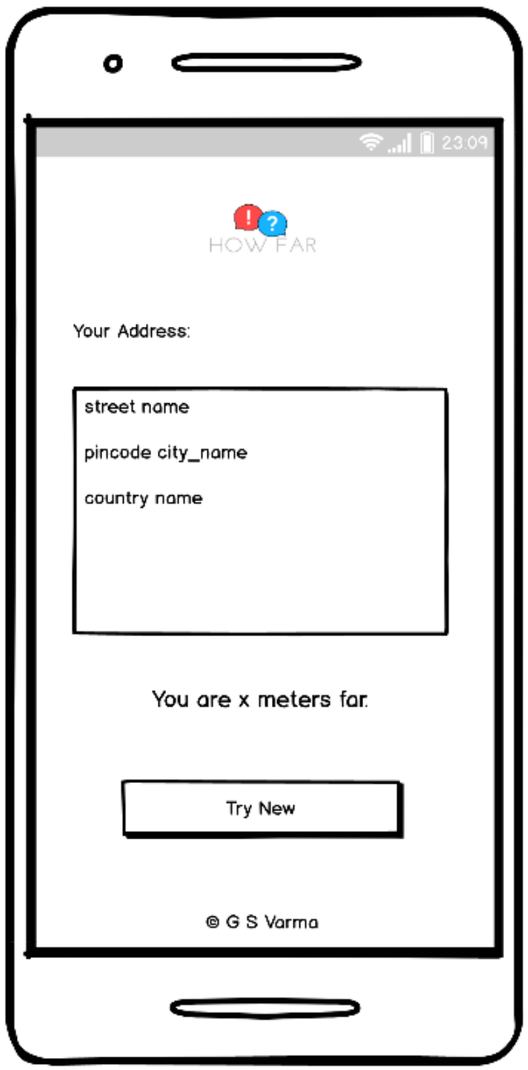
Wireframe

BUILD

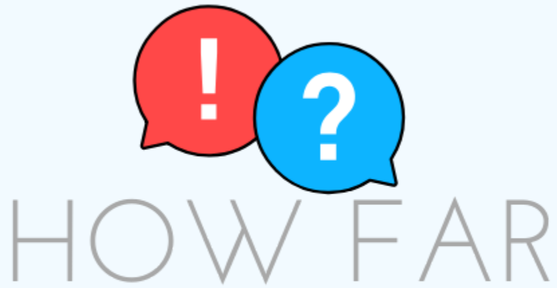
PROTOTYPE

Balsamiq





HOW FAR APP



Wireframe

Ideally, stakeholders approval for this document is required before developers start writing code.

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Development

↓

Release

FIND NEAR APP

Wireframe

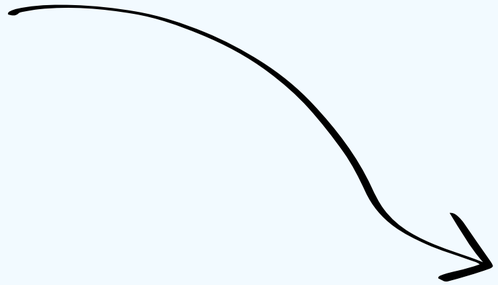
Ideally, stakeholders approval for this document is required before developers start writing code.

Why approval?

- Reduce - Development costs
- Get - Desired results

HOW FAR APP

Android app to know distance between user's location and 'to address'.



FIND NEAR APP

Android app to know distance between user's location and to the nearest of 4 addresses.

REQUIREMENT ELICITATION

Feature Request

User Story NEW

ID	As a ___	I want ___	So that ___
US1	user	one screen	I can type 4 addresses.
US2	developer	one screen	the app display results.

PRODUCT

DEVELOPMENT

Tools Used

- Platform - Android
- IDE - Android Studio

- VCS - Git
- Code Repository - GitHub

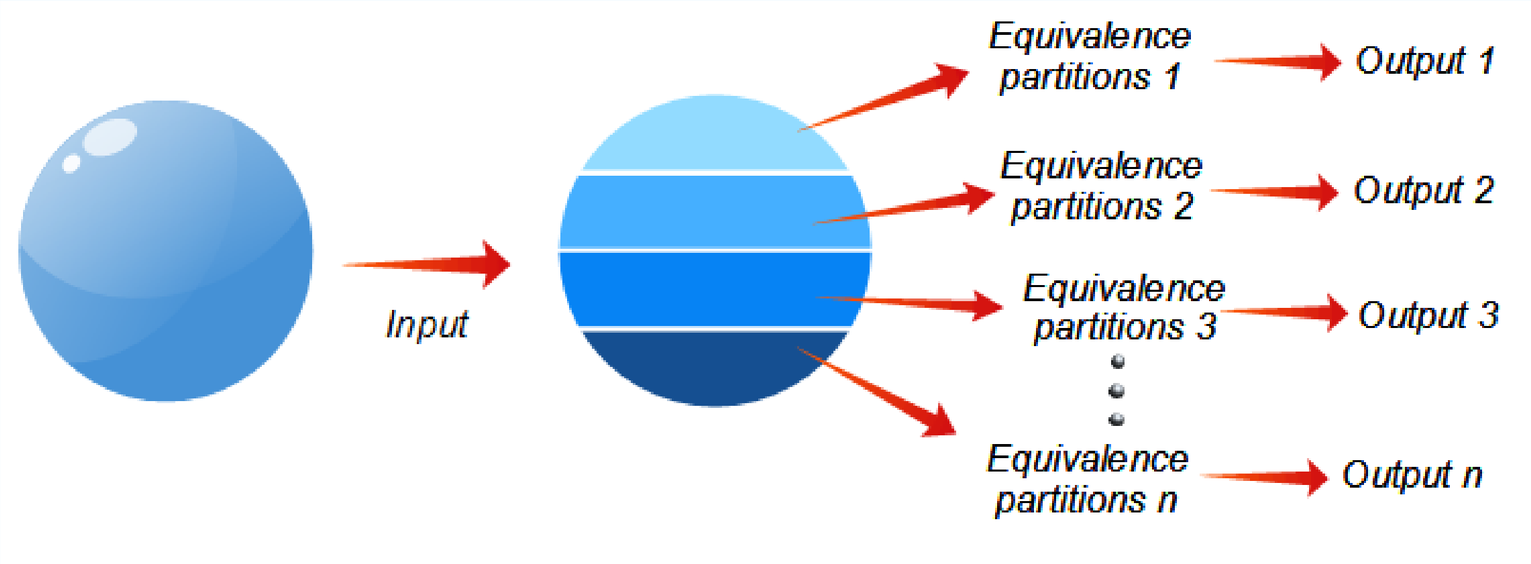
- CI - Travis
- Code Analysis - Codacy

- Project Management - Notebook

PRODUCT DEVELOPMENT

Approach

- Agile methodology
- Test driven mindset



PRODUCT

DEVELOPMENT

Approach

- Resourceful

1. Google Maps API
2. Location - distanceTo()
3. FusedLocationProviderClient - getLastLocation()

- Robust UX

- [MVVM] Architecture

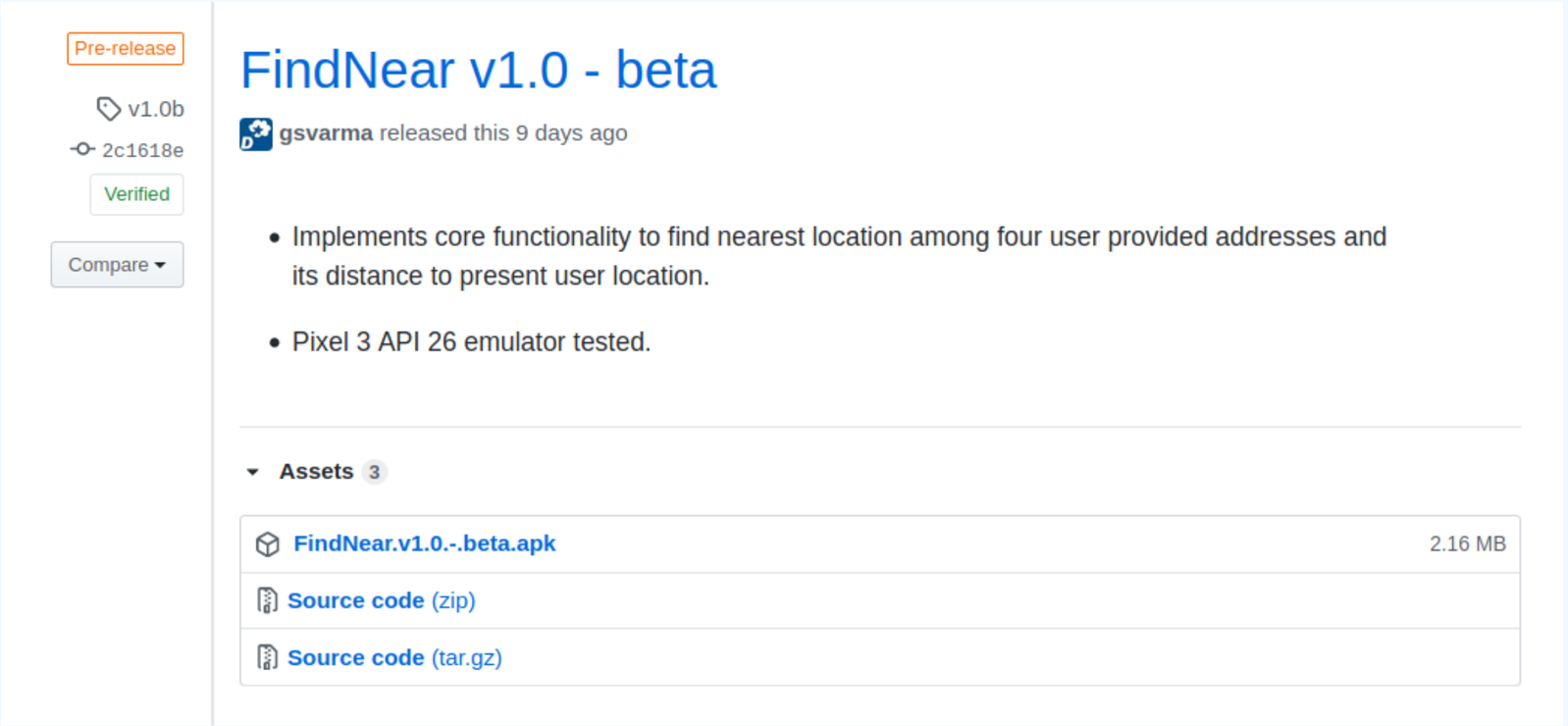
“For simple UI, M-V-VM can be overkill.”

- J. Gossman

PRODUCT RELEASE

Tool Used

- Deployment - Github Releases



Demo

References

- Constraint Layout - https://developer.android.com/reference/androidx/constraintlayout/widget/ConstraintLayout
- Google Maps API - https://developers.google.com/maps/documentation/geocoding/start
- Location - distanceTo() : https://developer.android.com/reference/android/location/Location#distanceTo(android.location.Location)
- FusedLocationProviderClient - getLastLocation() : https://developers.google.com/android/reference/com/google/android/gms/location/FusedLocationProviderClient#getLastLocation()
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Thank You