PANTHER HACKS

ASSIST

Ready at hand to help the elderly and disabled of society.

TARGET AUDIENCE

1

Elderly

Prone to more accidents.

2

People who Live Alone

Need help reaching emergency medical assistance.

3

Disabled

Individuals with difficulty taking care of themselves

Our Solution

Immediate Service

Automated call to **911** and the appropriate services

Effective Communication

Instant automated alerts to selected **emergency** contacts.

Cellular Integration

All the technology easily integrated into a simple mobile **device**.

Simple Interface

Specifically designed to present audience with a **clean and simple** design.

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KEY FEATURES

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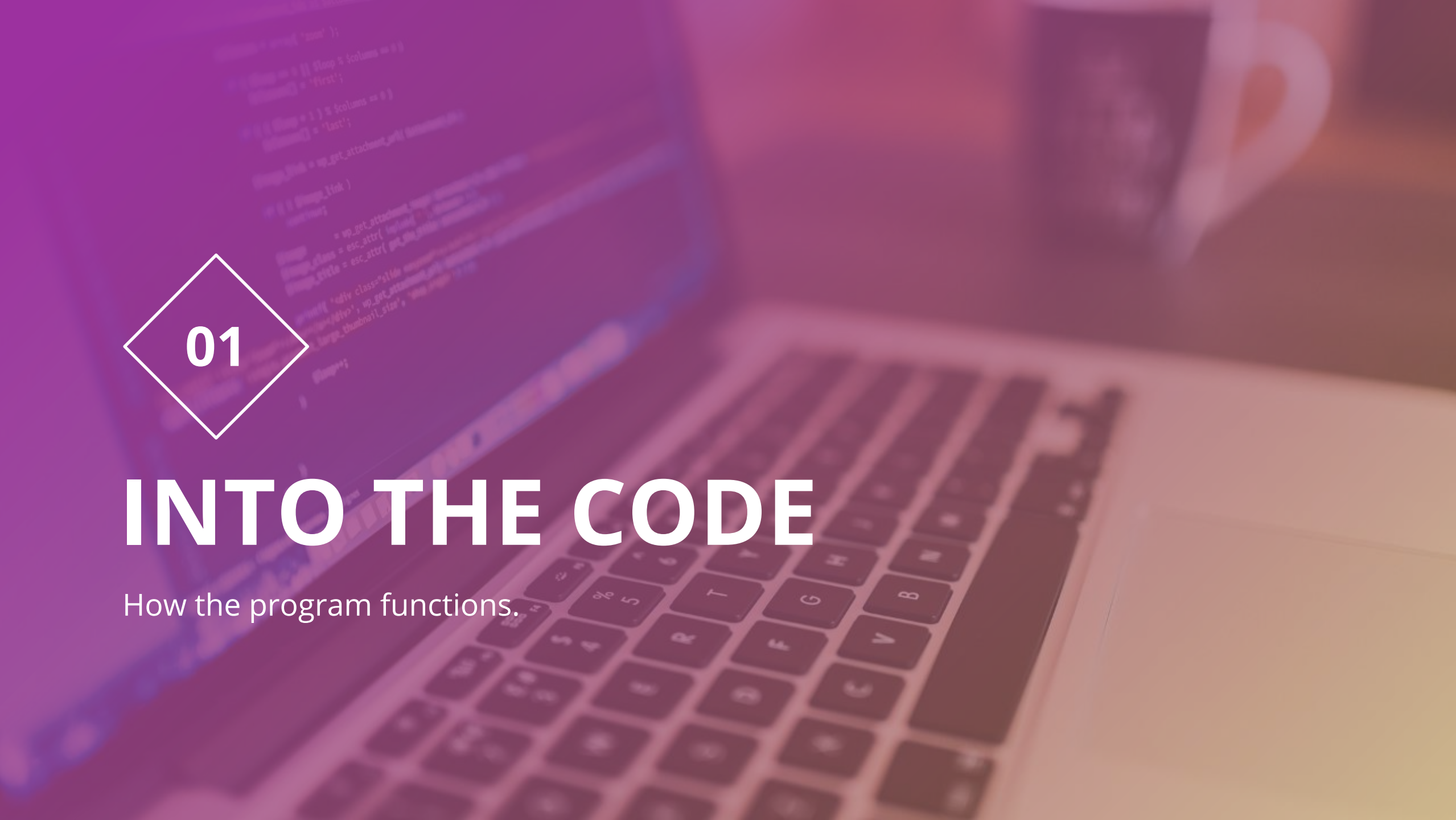
- Accelerometer for fall measurements
- Selective contacts for emergencies
- Instant connection to dispatch
- Family and friends notification via automated text
- Geolocation utilized by global coordinate system
- Utilized material design principles

Create an “accident”

Watch automated text and call features

Get all family and friends connected to the emergency

Demo



01

INTO THE CODE

How the program functions.

INTO THE CODE

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Motion Detection

- Flutter Sensors API

Location Data

- Google API
- Google Play Services

Call + Messaging

- SmsManager

SDKs

- Android
- Flutter
- Dart

02

Technical Difficulties

How we overcame obstacles.

TECHNICAL DIFFICULTIES

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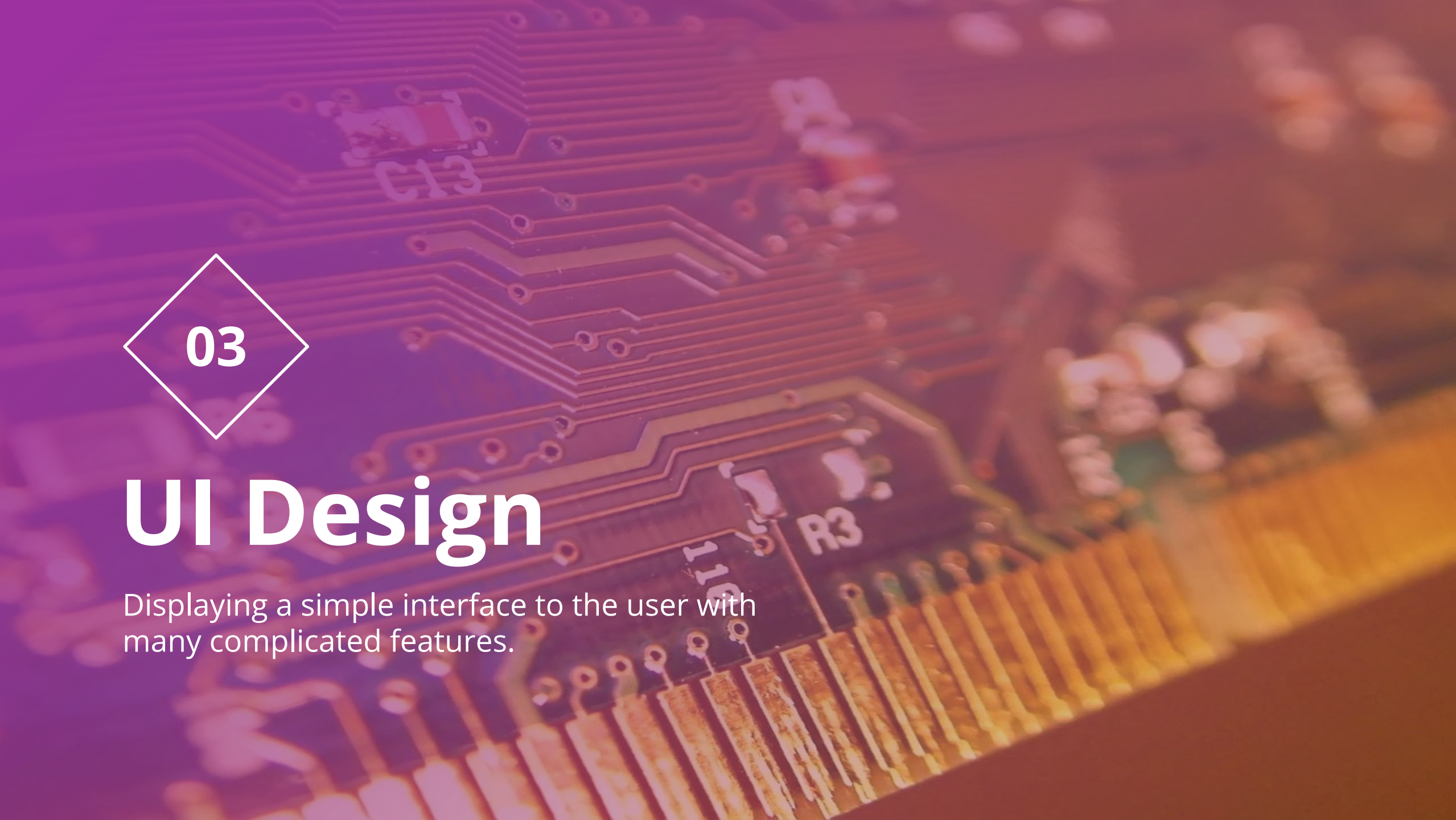
- Accessibility to native Android features
- Connecting the GUI to the XML
- Accessing and implementing the Location Services
- Google search engine shutdown



03

UI Design

Displaying a simple interface to the user with many complicated features.

UI DESIGN

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- Simple interface necessity
- Storing contacts
- Emergency notifications
- Icon design

04

Future Adressments

How can we improve the app in the future?

FUTURE ADRESSMENTS

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- Seizure detection
- Family functions
- Emergency contact auto-group chat
- Google Maps integration
- More customization (ex. emergency delay time)
- Free to all on app store

05

Progress and Learning

What did we learn during the development process?

PROGRESS AND LEARNING

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Technical Skills

- App Development
- Android Studio
- Java
- XML
- Google and Sensor APIs

Thank you for listening!

Questions?

GitHub Repo:
https://github.com/srangan24/Assist-App