

# Juggle

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HIGHER DIPLOMA IN COMPUTER SCIENCE 2020

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# Agenda

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- Introduction
- Tools & Technologies
- Demo
- System Flow
- Data
- Development Iterations
- Learnings
- Challenges
- Future Development
- Questions

# Introduction

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An android app to manage busy families' calendars

- View and create Google Calendar events
- Juggled
- Jugglers



# Tools & Technologies

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- Kotlin
- Google Sign In
- Authenticated with Firebase
- Firebase Realtime database
- Google calendar APIs
  - Calendars
  - Events
  - Creates events

# Demo

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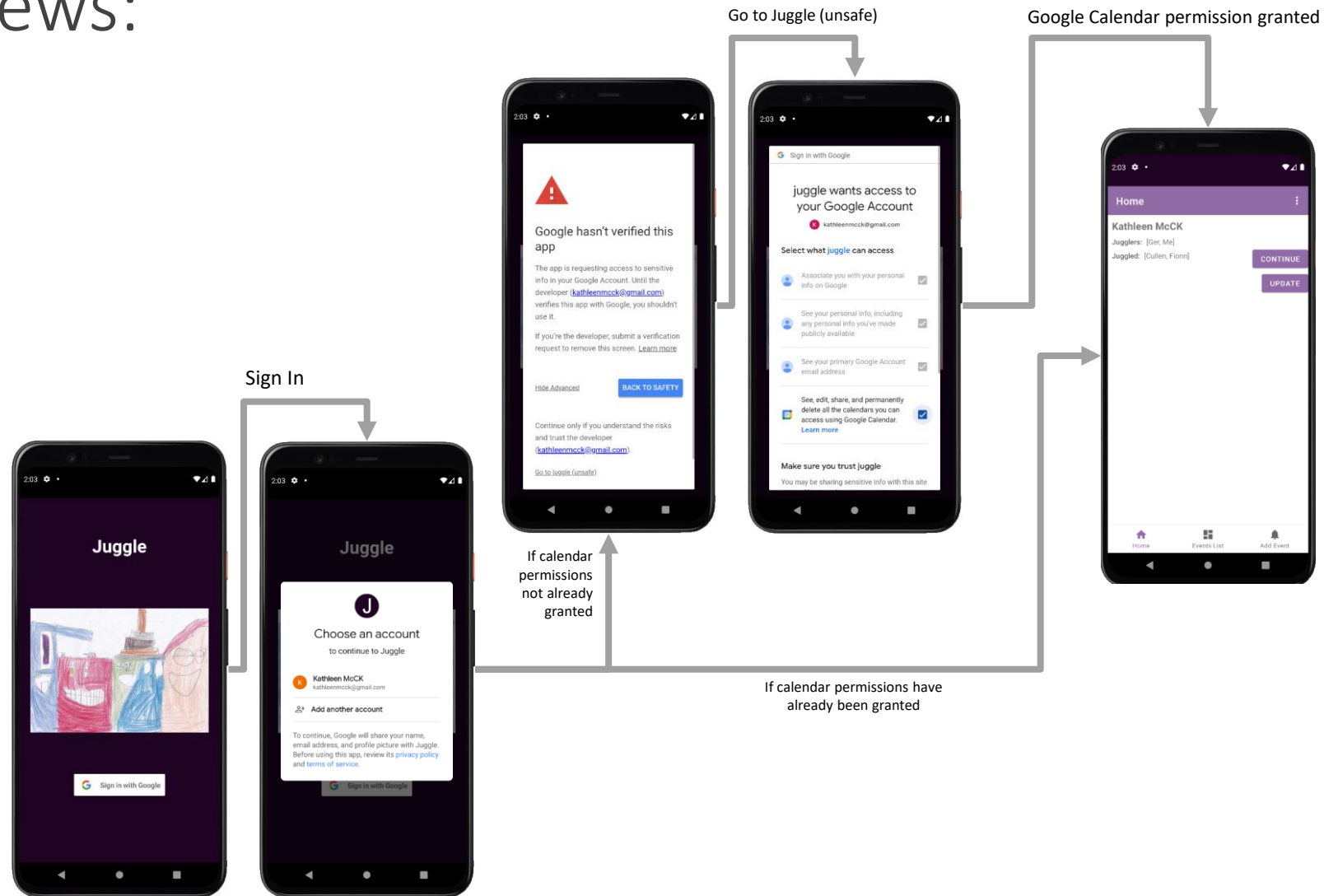


<https://www.youtube.com/watch?v=Zm30F79KrHc>

# System Flow

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# Sign In Views:



# Juggling Views:





# Data

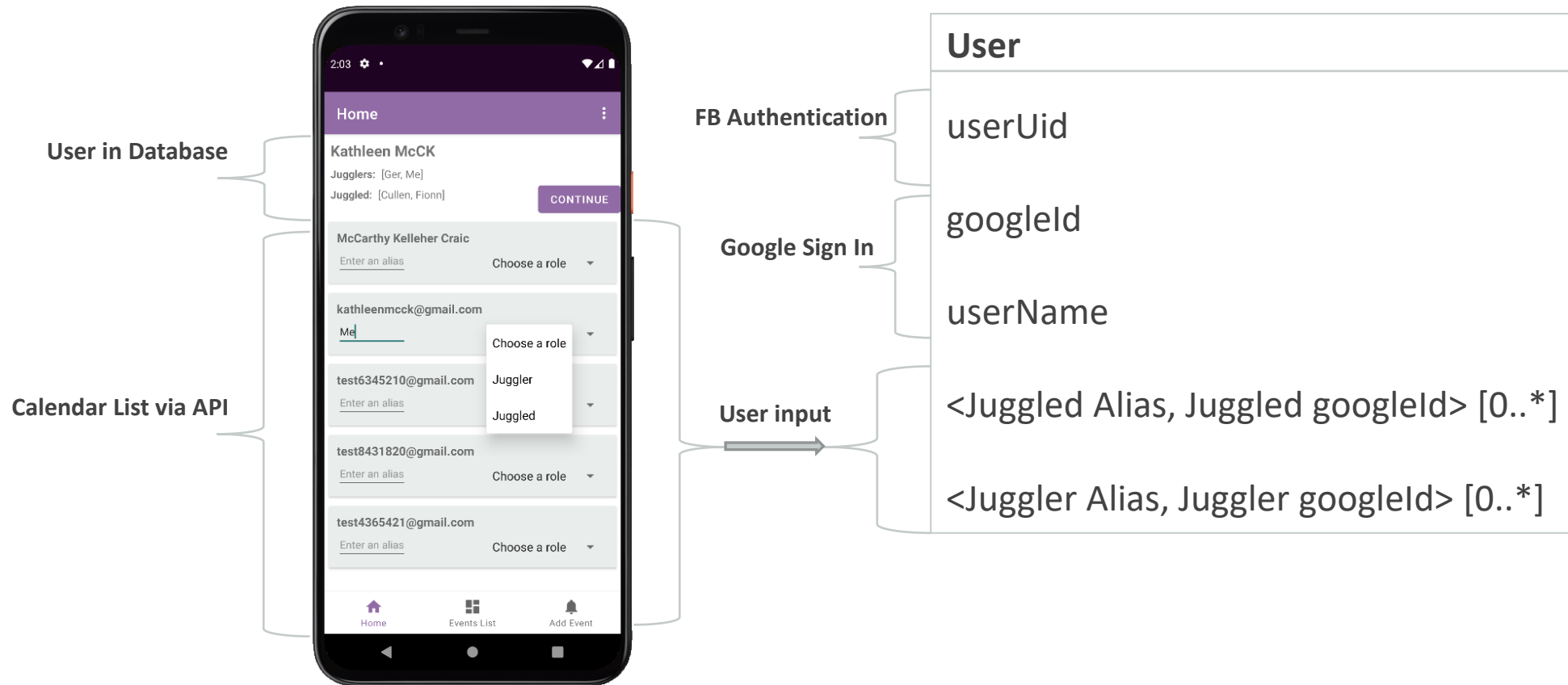
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# Data sources

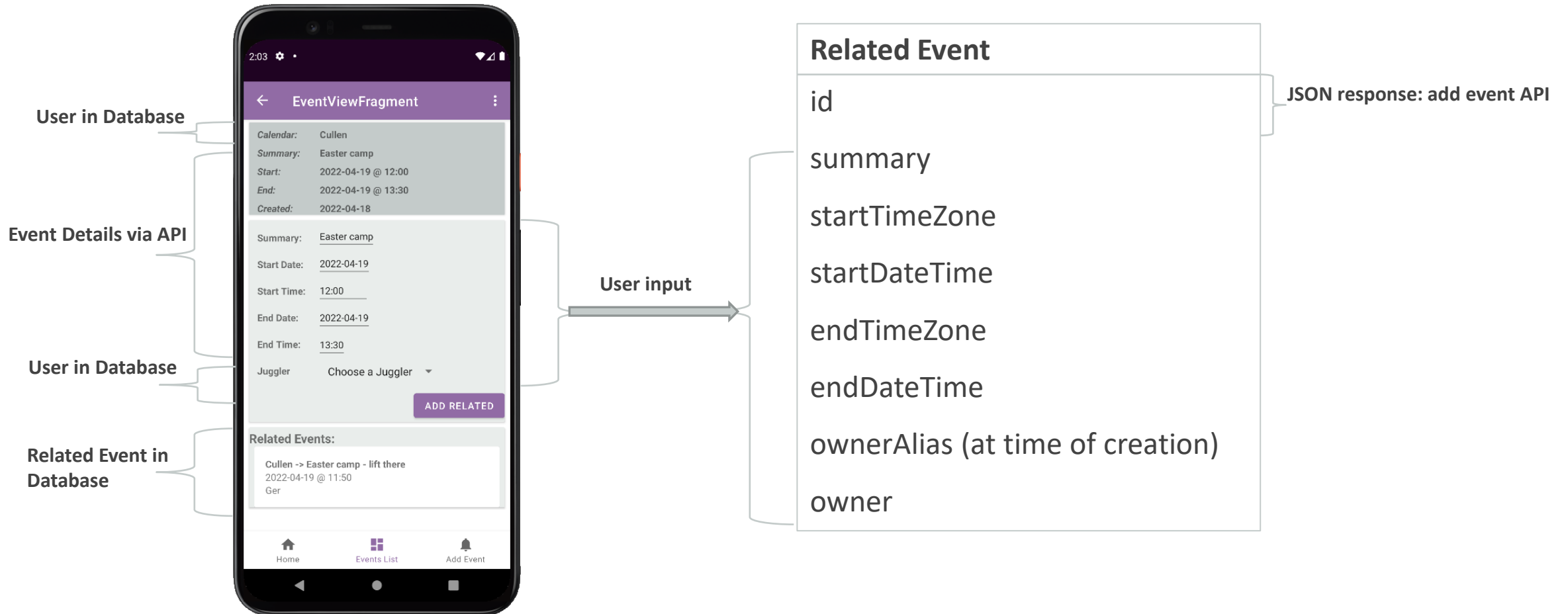
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- Google Sign In
- Firebase Authentication
- Google Calendar API
- Firebase Database
- User Input

# User: UI & Database



# Juggled Event: UI & Database



# Development Iterations

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1. Set up, Google Sign In, Scopes
2. Retrofit, Get Calendars, View Calendars
3. Get Events, View Event
4. New Event input, POST event
5. Firebase Realtime database, User persistence
6. View related events, Dinner event

# Learnings

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- Android Development
- Kotlin
- Google APIs
- Timeboxing
- Planning redirection

# Challenges

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- Android Development
- Kotlin
- Access token
- Time

# Future Development

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- Programmatically retrieve the access token
- Juggled events to include multiple calendars
- Distinguish checked events
- Much more



# Questions???

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