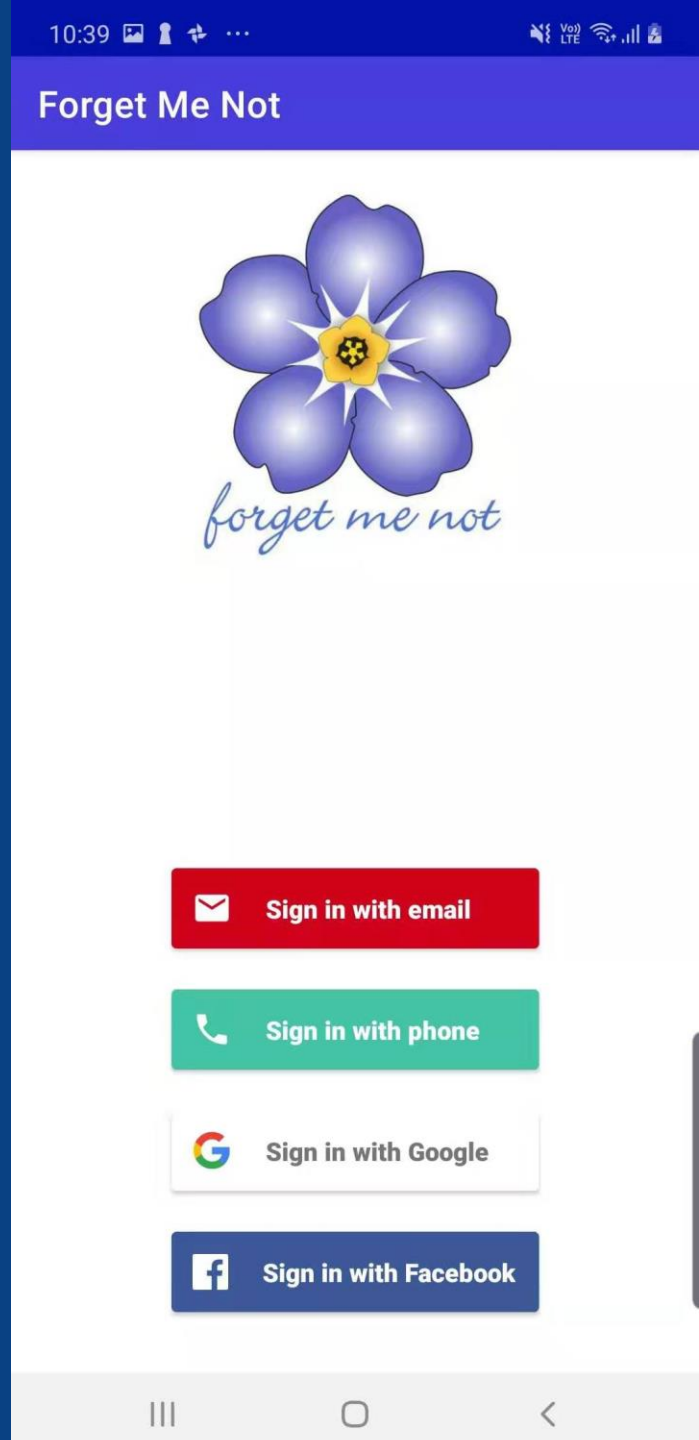
THE UNIVERSITY OF MELBOURNE

Forget Me Not

View, Share, Memory and Life



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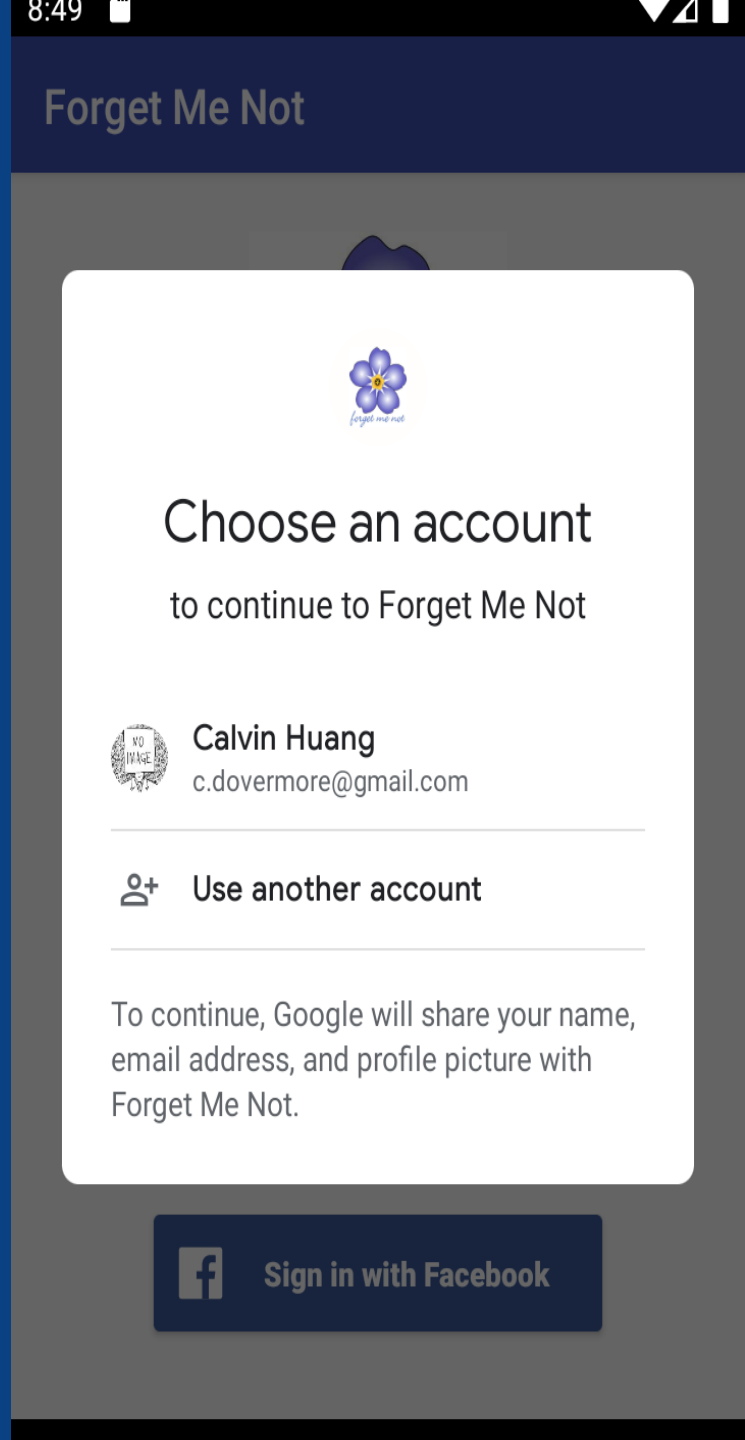
Secure and Easy

Third Party Authentication



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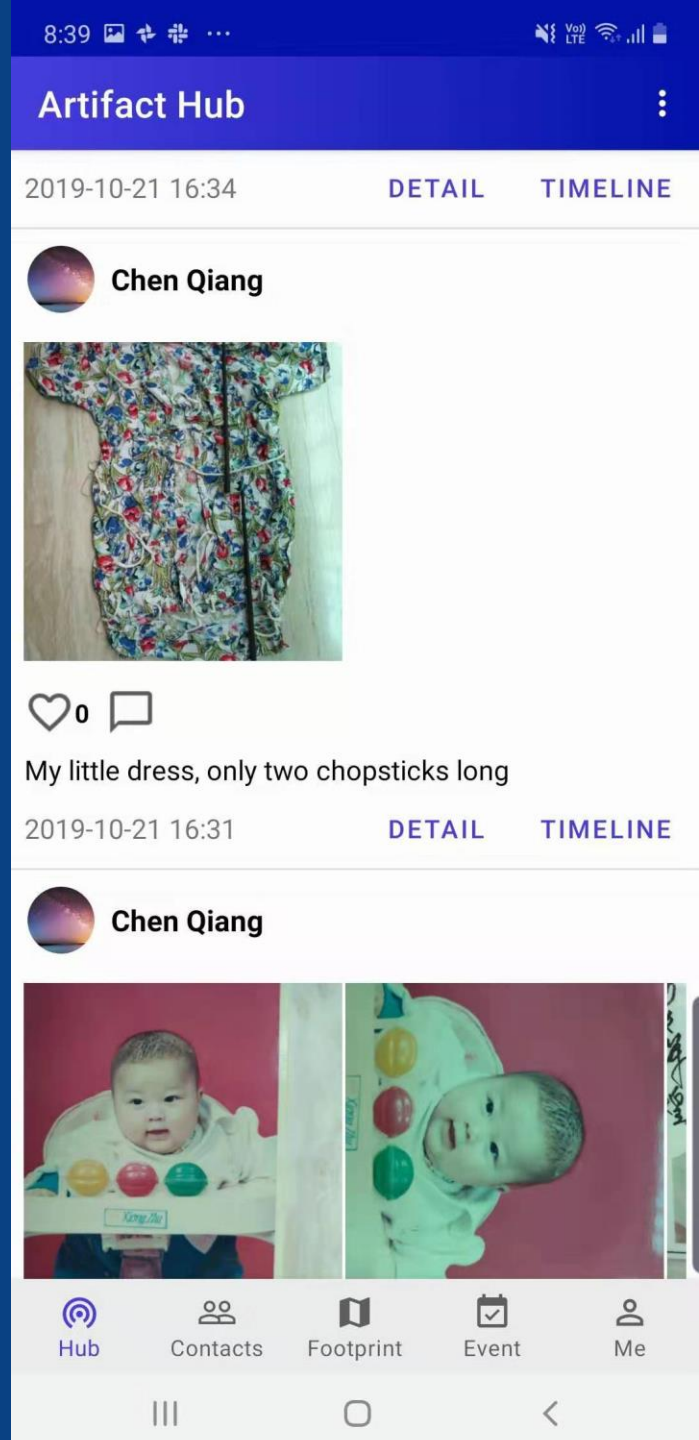
Share and interact

With Family and Friend



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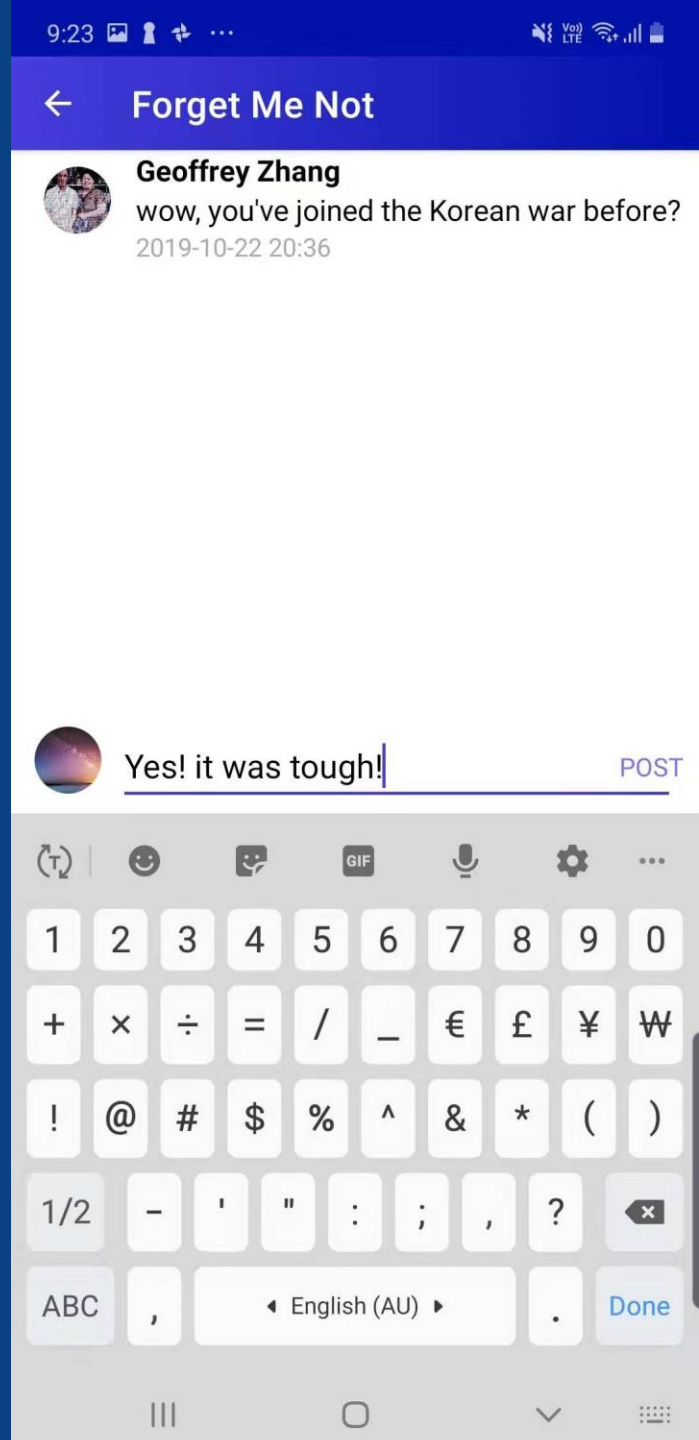
Share and interact

With Family and Friend



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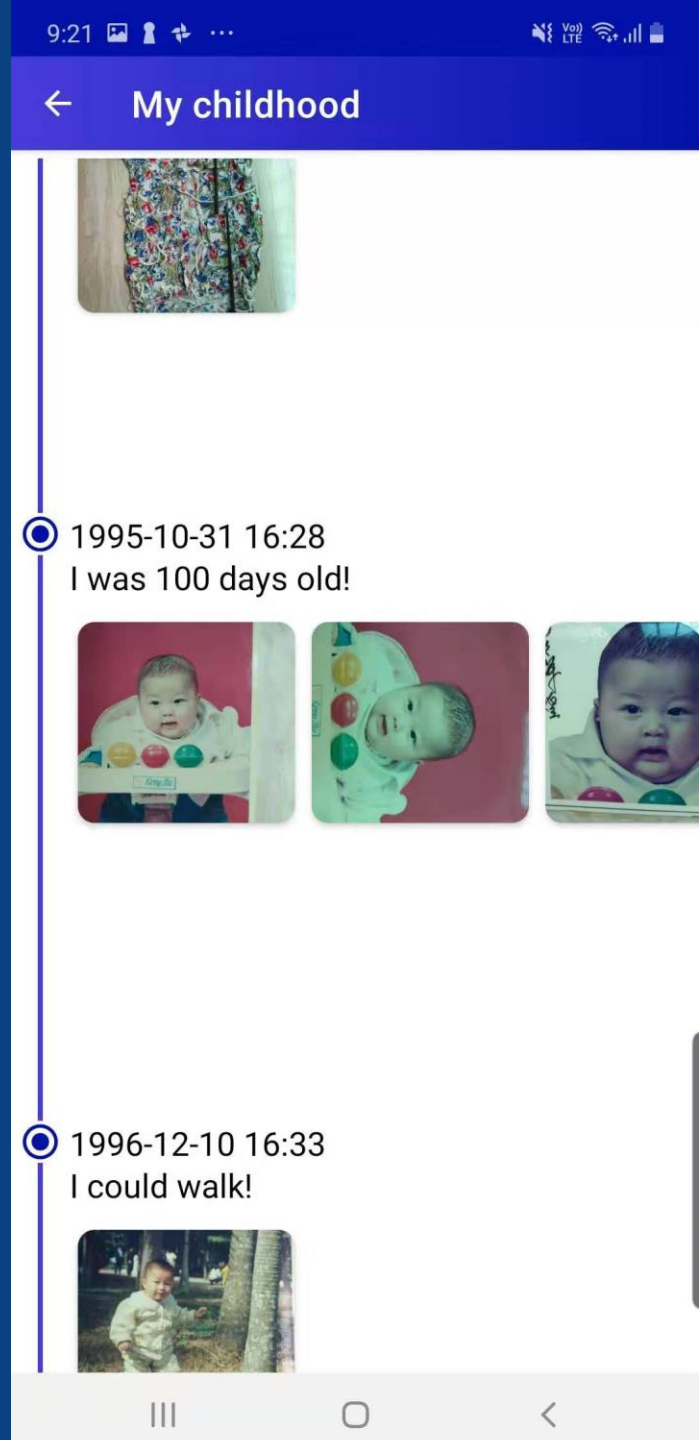
Your Timeline, Your Life

Make History Clear as a String



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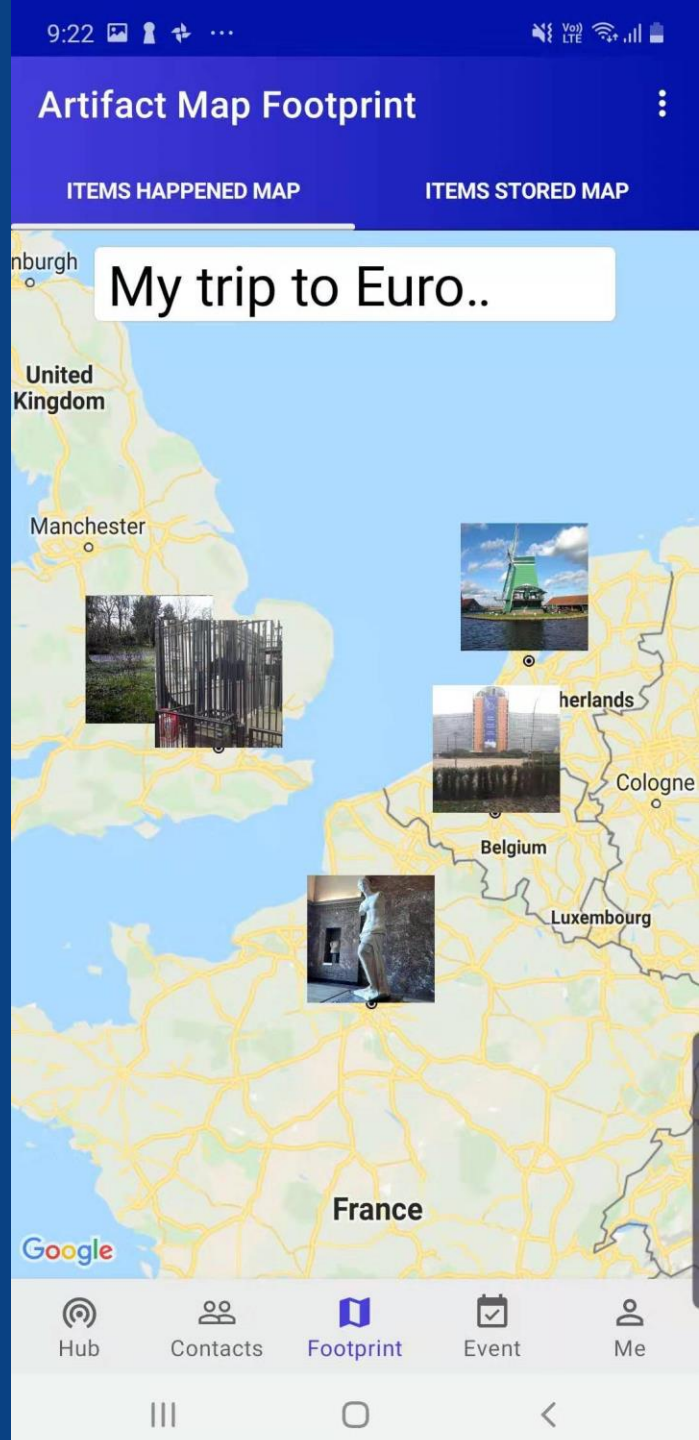
Your Footprint, Your Like

Memory clear as a Map



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Forget Me Not

COMP30022-IT-Project Presentation

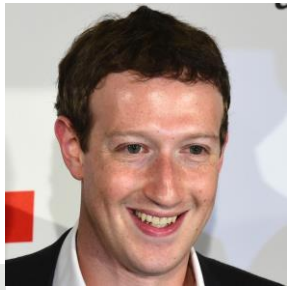
Team: Family.AI

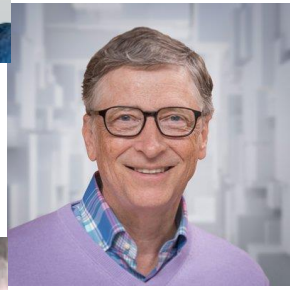
KeyNote Speaker: Calvin Huang, XuLin Yang

Table of Contents

- **Basic Information**
- Development/Requirements
- Technologies and Tools Used
- Demo & Delivery
- Lesson Learned

Our Team





Mark Zuckerberg	• Facebook
Tim Cook	• APPLE
Bill Gates	• Microsoft
Elon Musk	• SpaceX

Family.AI

Calvin Huang	• Data Science
XuLin Yang	• Computing and Information System
LiGuo Chen	• Computing and Information System
HaiChao Song	• Computing and Information System

Family.AI

Calvin Huang	• No Mobile/Web Experience
XuLin Yang	• No Mobile/Web Experience
LiGuo Chen	• No Mobile/Web Experience
HaiChao Song	• No Mobile/Web Experience

Family.AI

Money

Family.AI

Power

Family.AI

Richard Ruizhi Li

- Supervisor

Our Client

- **Client:**
  - Geoffrey Zhang
- **Work:**
  - Senior consultant
- **Location:**
  - Shanghai
- **Age:** 50

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- Basic Information
- **Development/Requirements**
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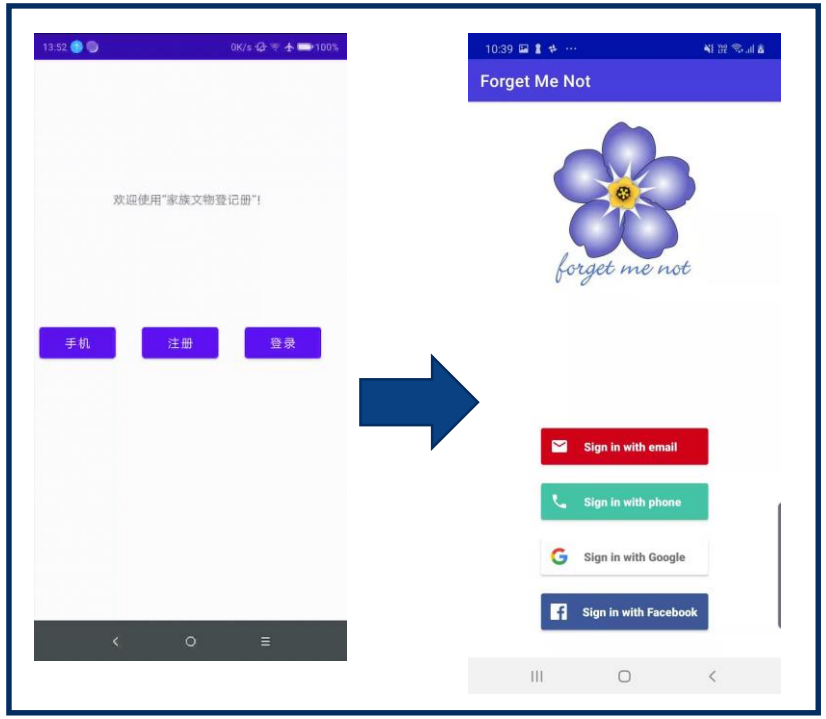
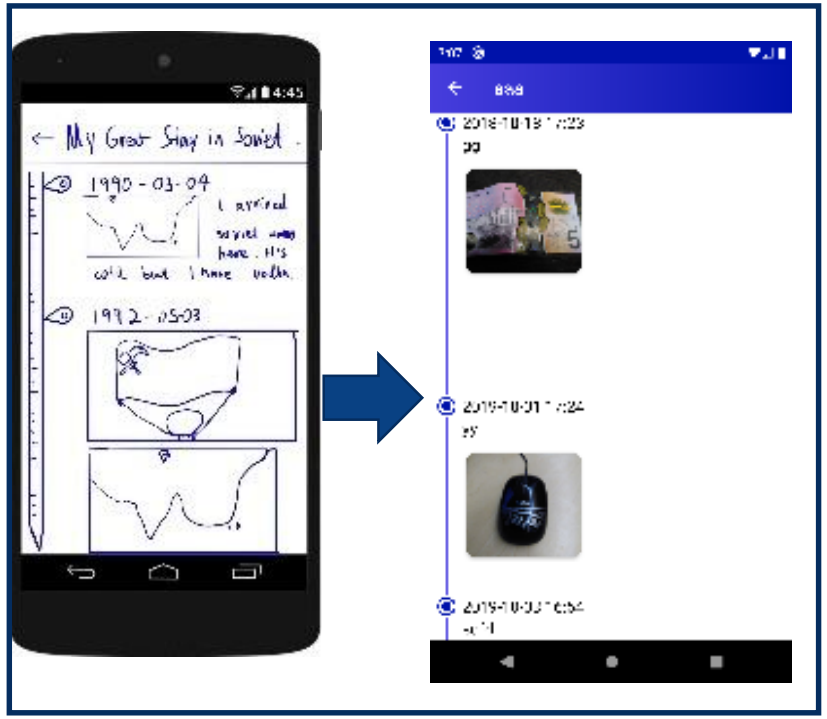
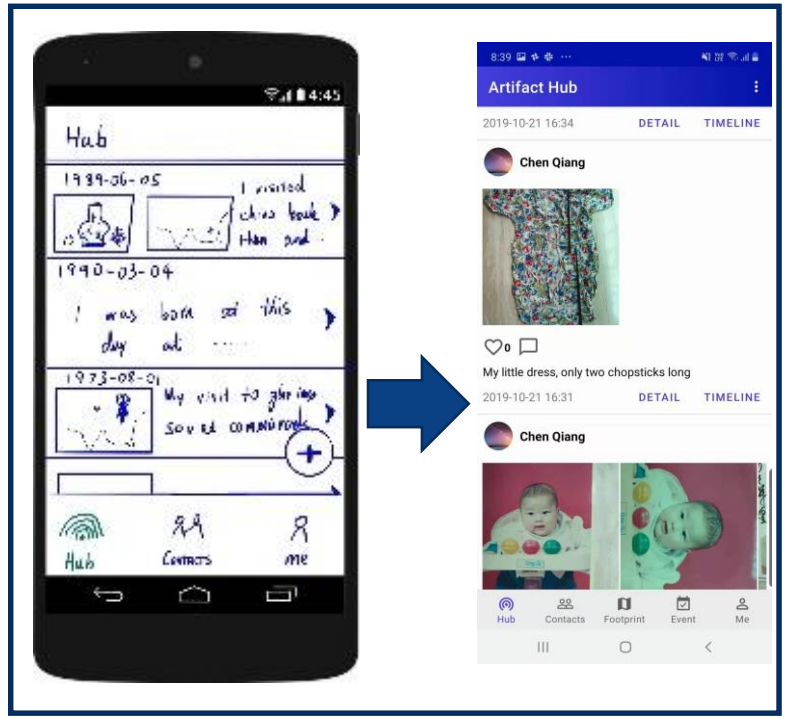
Iteration, Road Map

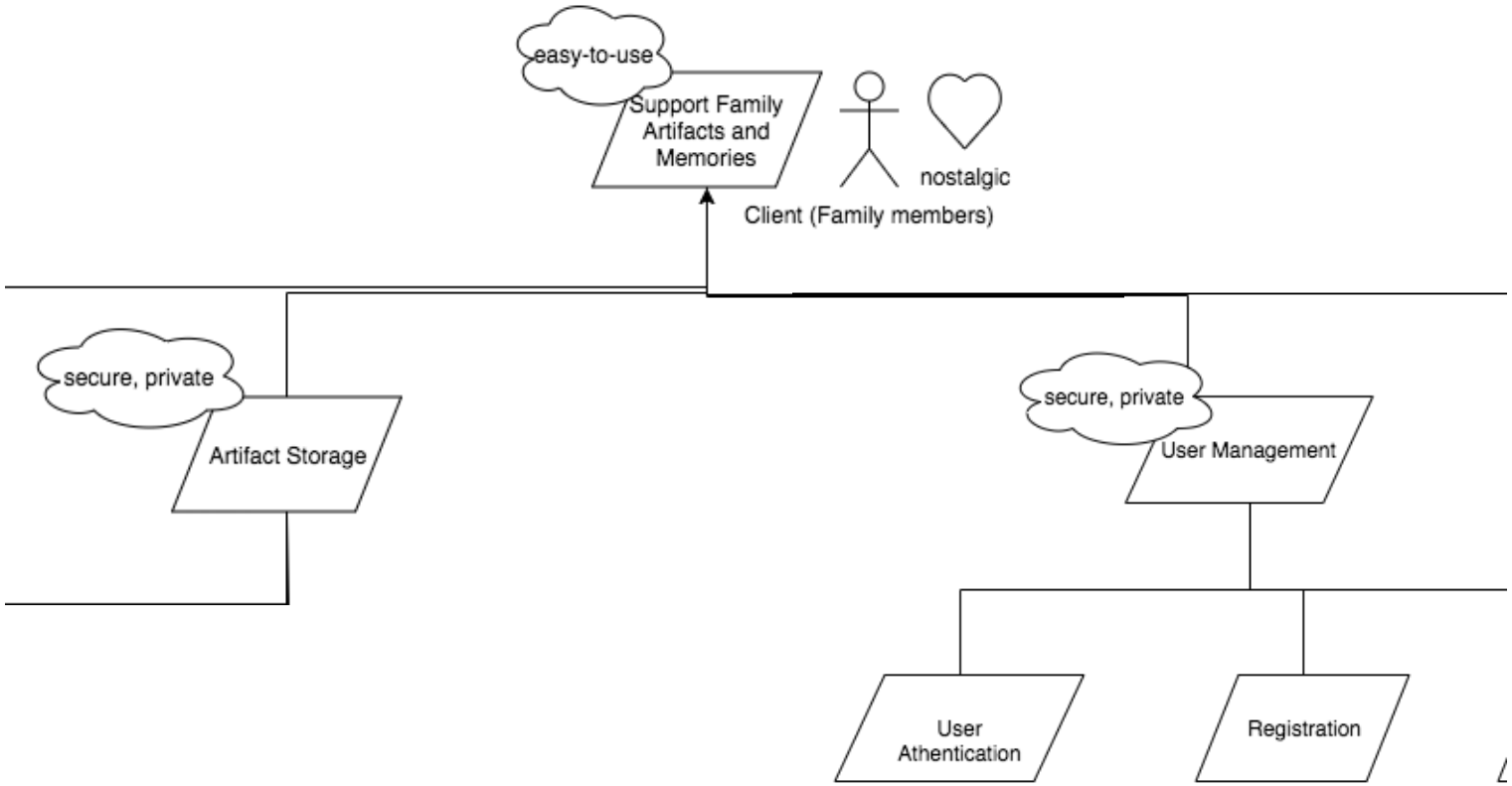






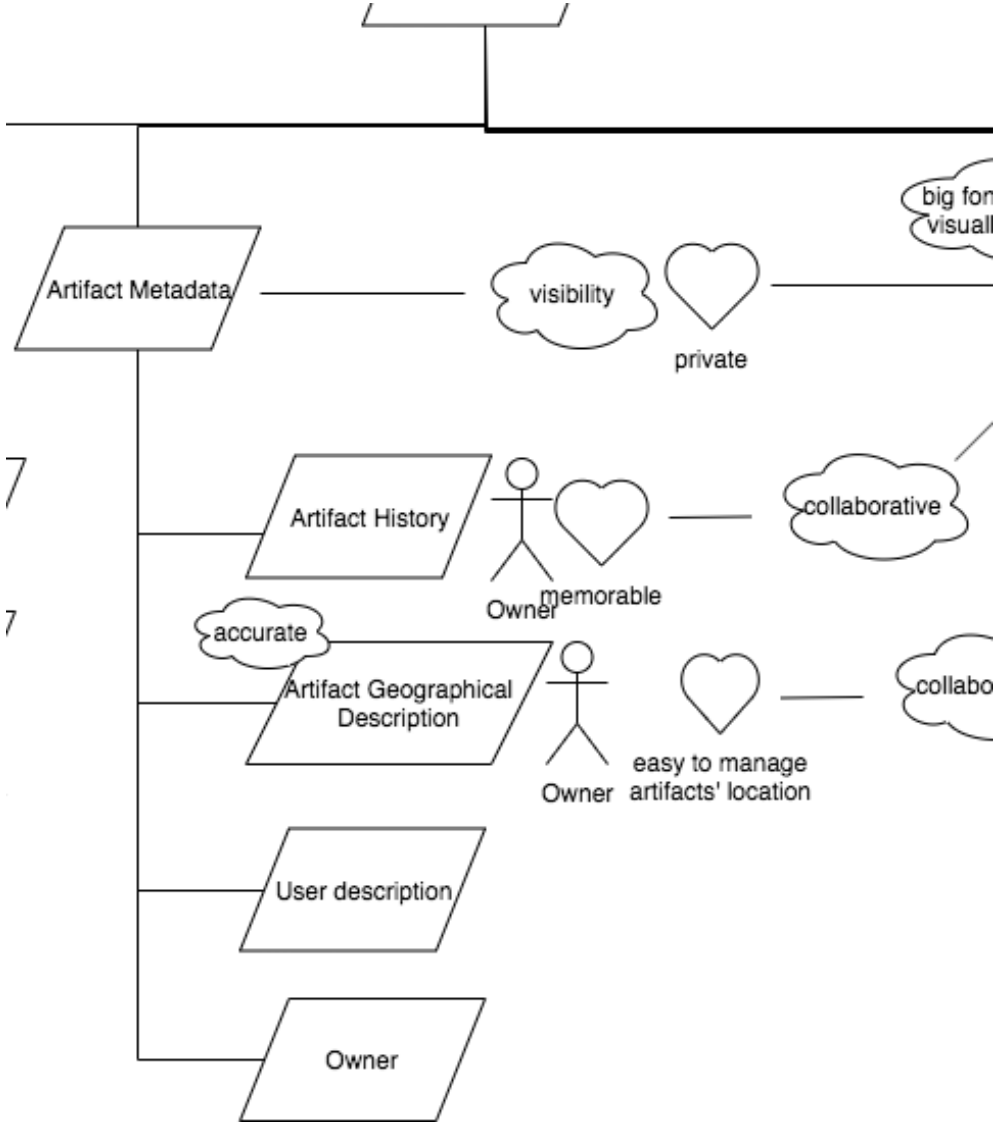
The Essential

- Easy/Intuitive to Use
- Secure
- Accessible
  - anywhere
  - any device



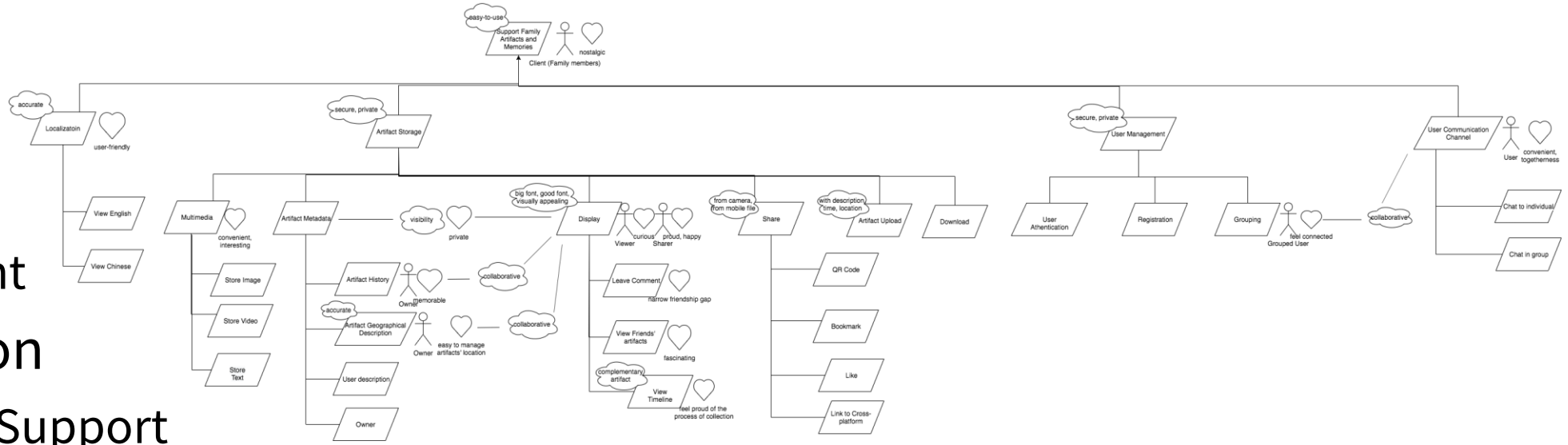
Rich Presentation

- History – Timeline
- Date & Time
- Geographical location
  - Event location
  - Store location



Many More...

- Interaction
  - Share
  - View
  - Like
  - Comment
- Localization
  - Chinese Support
  - English Support



Non-Functional Requirements

Secure & Easy	OAuth
Performance	Real-time synchronization
Modern Design Principle	Material Design
Maintainability	Advanced architecture
Availability	Deployed in Google Play Store!

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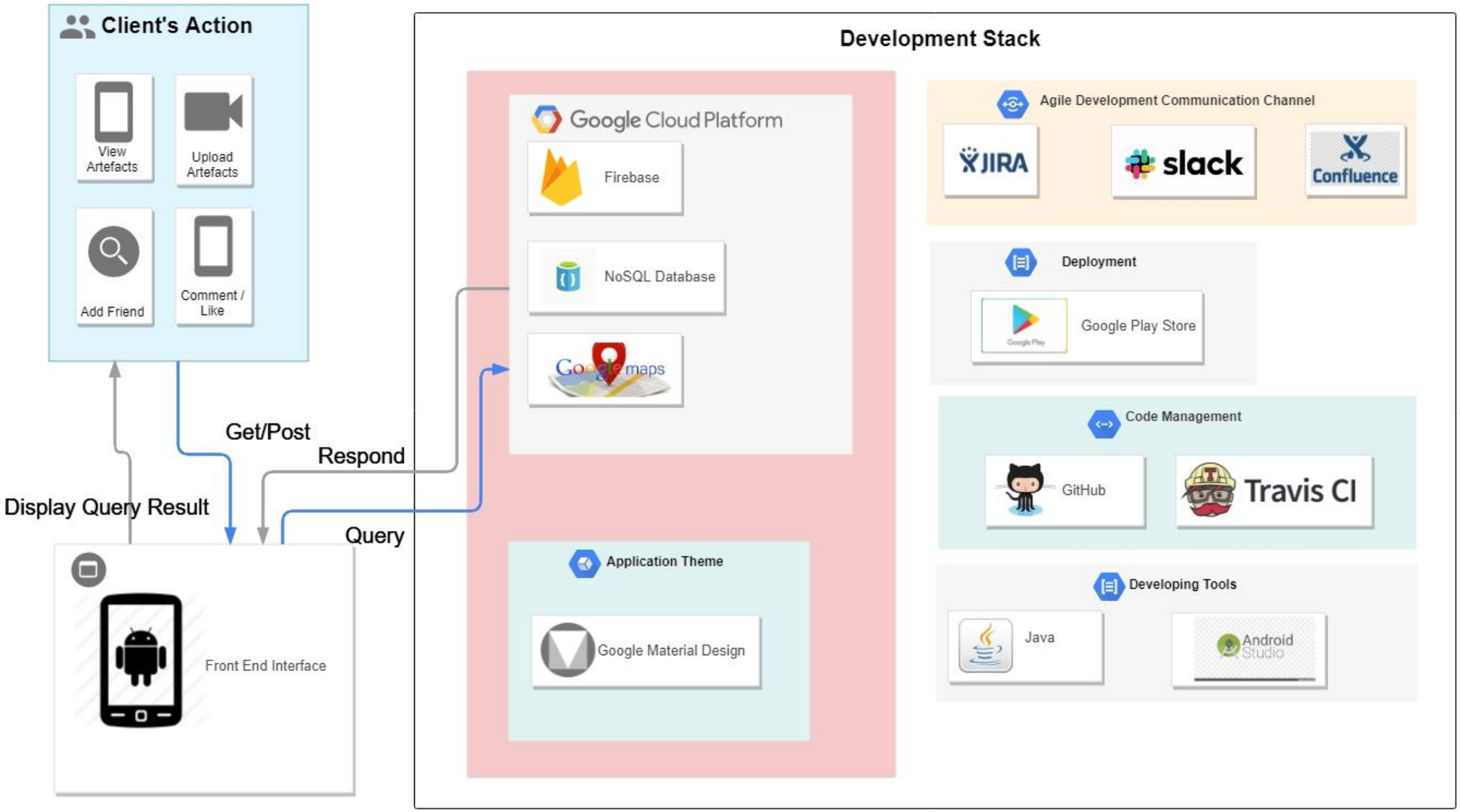
Overview

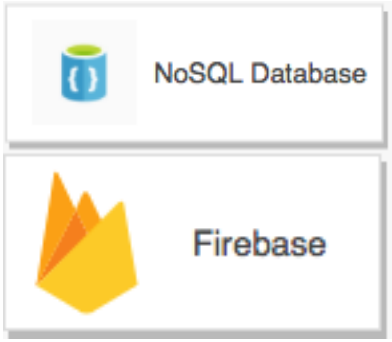

Client's Action
View Artefacts
Upload Artefacts
Add Friend
Comment / Like
Get/Post
Respond
Display Query Result
Query
Front End Interface
Development Stack
Google Cloud Platform
Firebase
NoSQL Database
Google maps
Application Theme
Google Material Design
Agile Development Communication Channel
JIRA
slack
Confluence
Deployment
Google Play Store
Code Management
GitHub
Travis CI
Developing Tools
Java
Android Studio

Mobile/Android/Java

- Mobile/Android
  - Large Growing Platform
  - Client requirement
  - FUN
- Java
  - Familiarity
  - Coding standard

Firebase

- Schema-less/SQL-less
  - Flexibility
  - Easy to start
- Firebase
  - Authentication/FireStore/Storage
    - Native Android SDK
    - Instant response
    - Real Time Listening
    - FREE

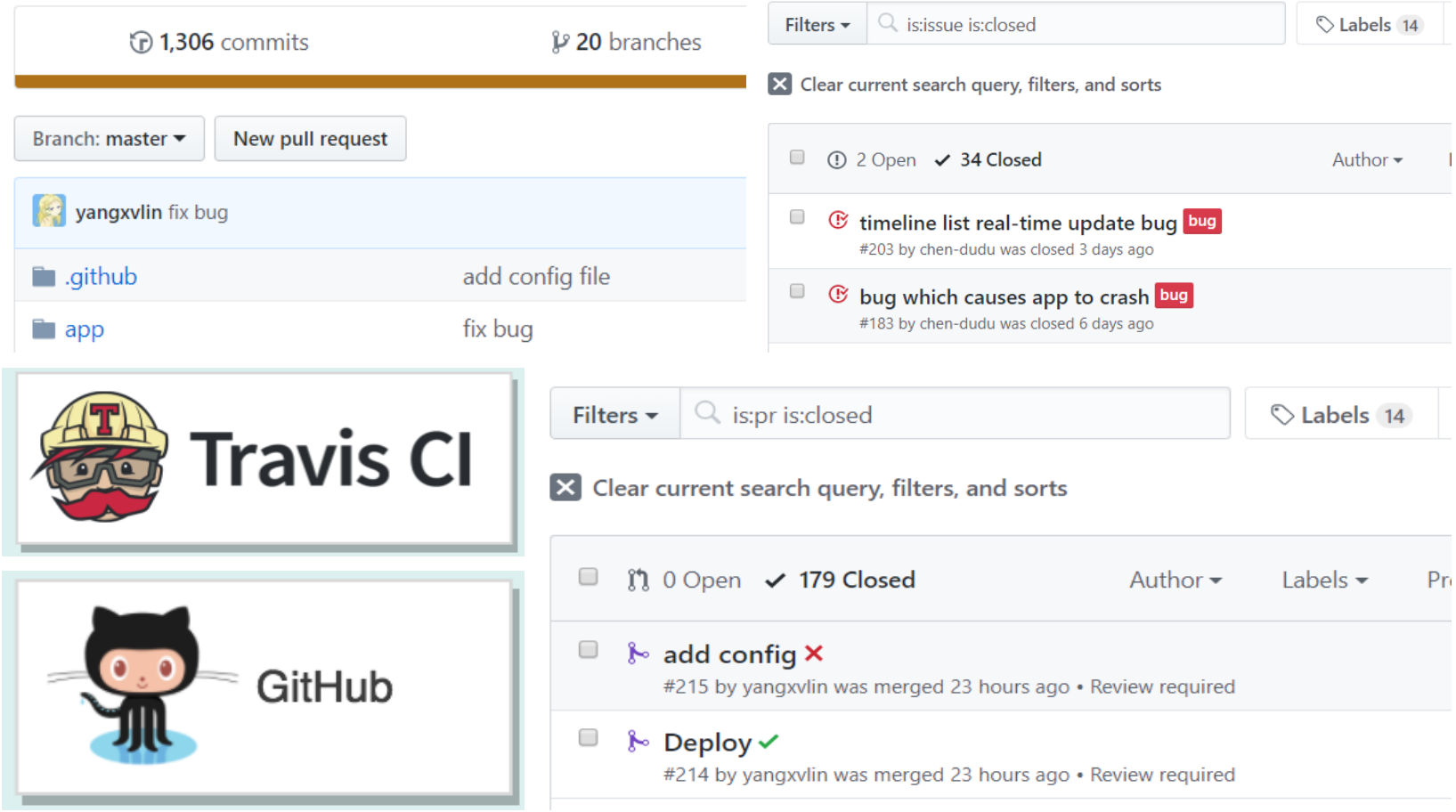


Google Cloud Platform

- GCP (Google Cloud Platform)

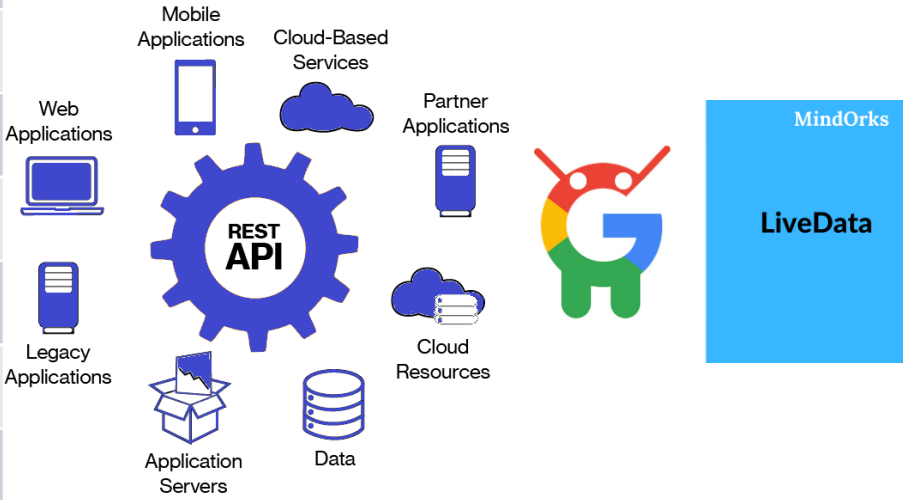
  Powerful
  - Map SDK/API
  - Location SDK/API
  - Places SDK/API
  - GPS SDK/API

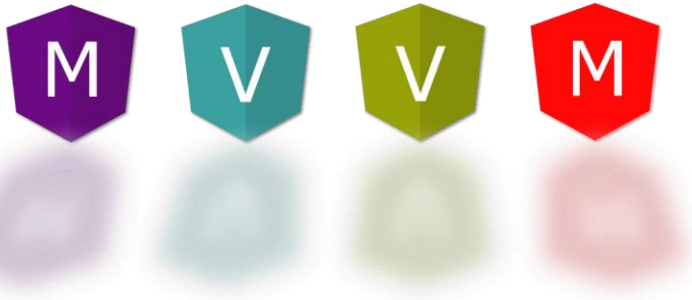
We have come a long way



Miscellaneous

Other Technologies	Attribution
CircleImageView	hdodenhof/CircleImageView
Android Image Cropper	ArthurHub/Android-Image-Cropper
Timeline-View	vipulasri/Timeline-View
Beautiful toast message	GrenderG/Toasty
Glide(video thunmnail)	bumptech/glide
UltraViewPager(image slide)	alibaba/UltraViewPager
KM Popup Image Slider for Android	smhdk/KM-Popup-Image-Slider
SmartTabLayout	ogaclejapan/SmartTabLayout
RecyclerStickyHeaderView	TellH/RecyclerStickyHeaderView
FlycoDialog	H07000223/FlycoDialog_Master
InteractiveInfoWindowAndroid(map)	Appolica/InteractiveInfoWindowAndroid





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Functionality Overview

- Sign in & Sign up easily
- Rich item description methods
- Powerful artifact management
- Social Contact
- Interactive Hub
- Clear & Intuitive time-based item look-up in the timelines
- Clear & Intuitive location-based item look-up on Map
- Customized Event Recommendation System
- Support multiple languages

Functionality Overview

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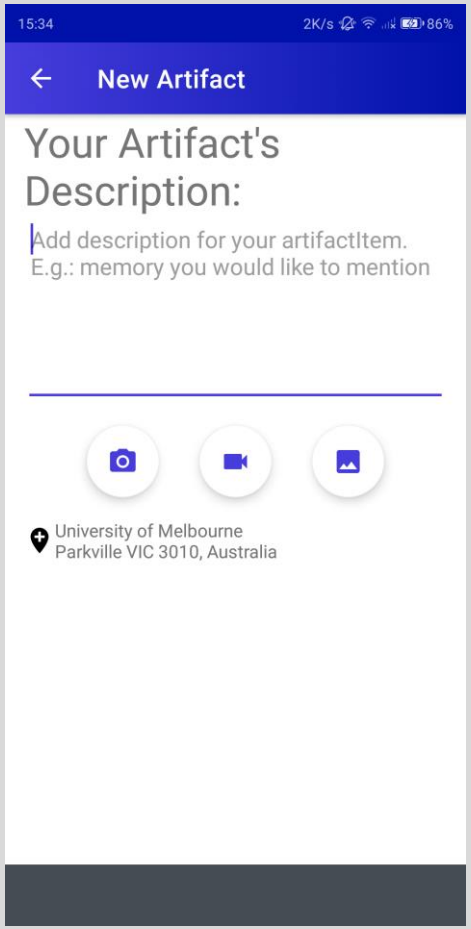
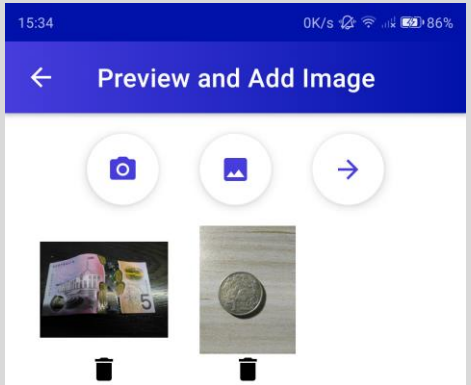
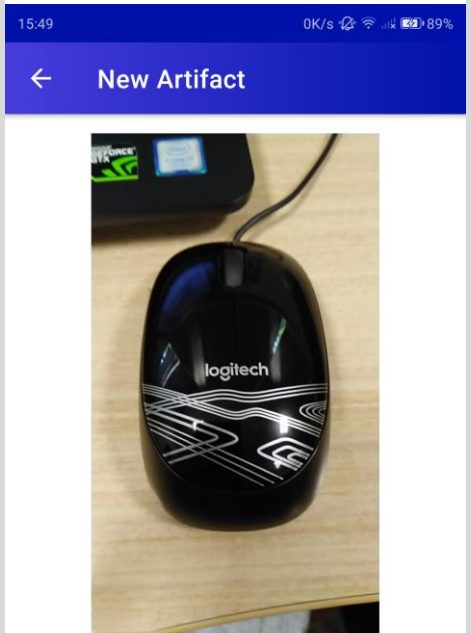
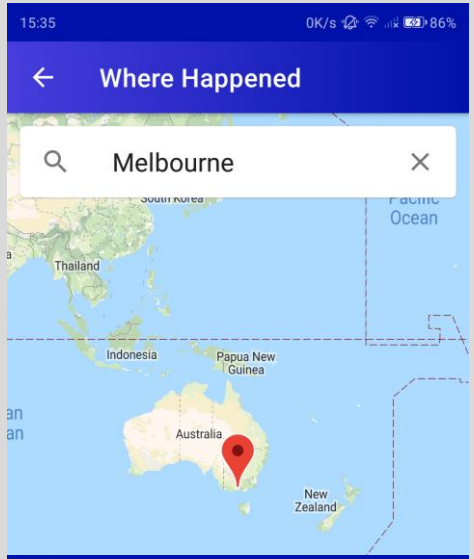
Immersive Demo

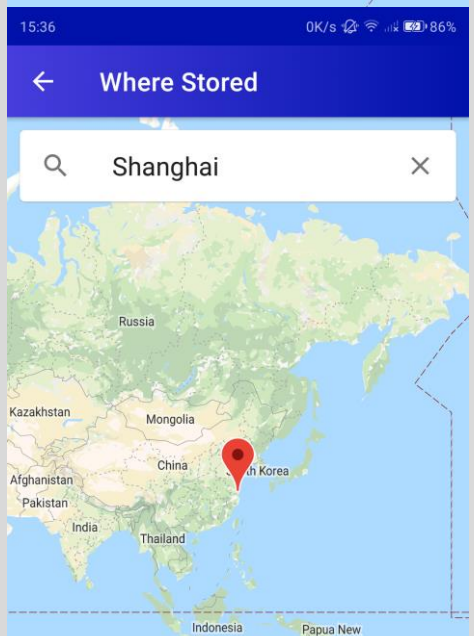
Rich item description methods

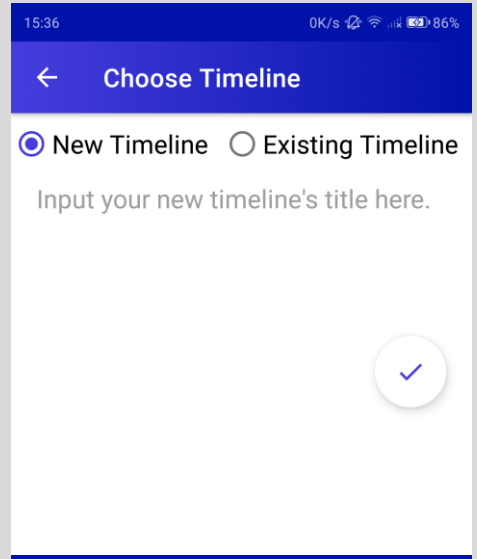


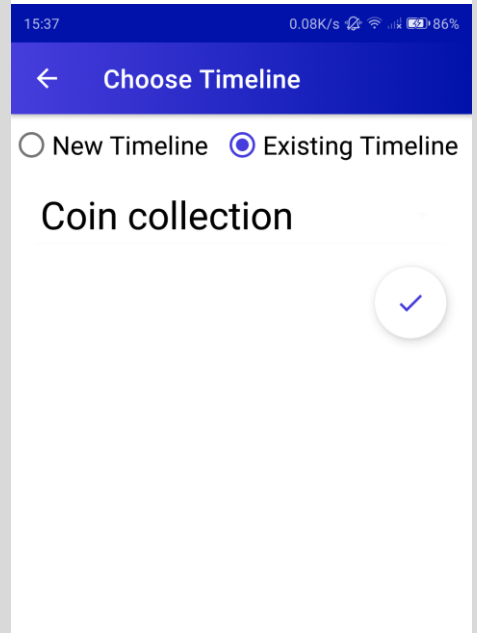




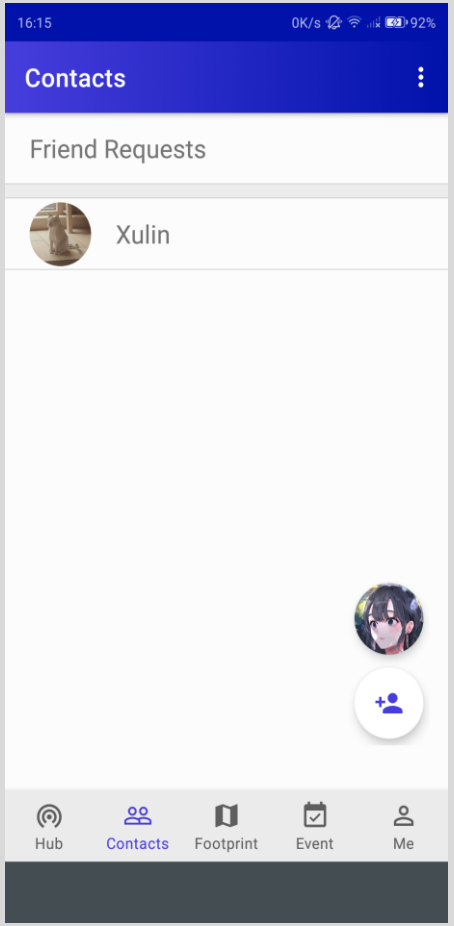




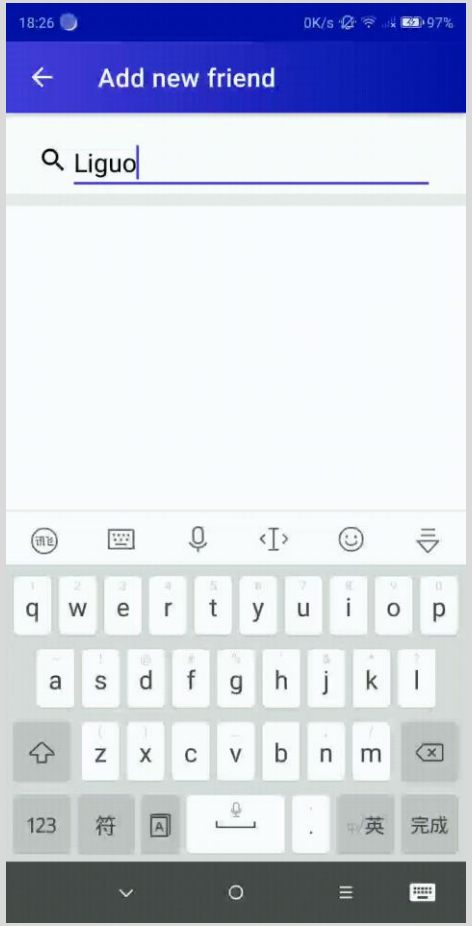




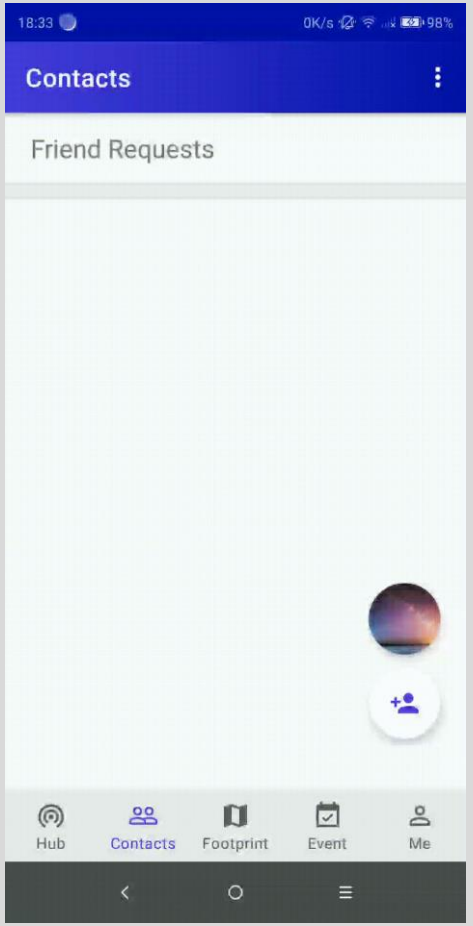
Social Contact



Contact List



Search & Add friend



Accept friend request

Immersive Demo

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- **Lesson Learned**

Lesson Learned

- Team collaboration
- Agile/Scrum Practice
  - Flexible
  - Extensible
- Plan before implementation
- DO NOT reinventing wheels

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Thank you

Forget Me Not

Family.AI

10-23-2019