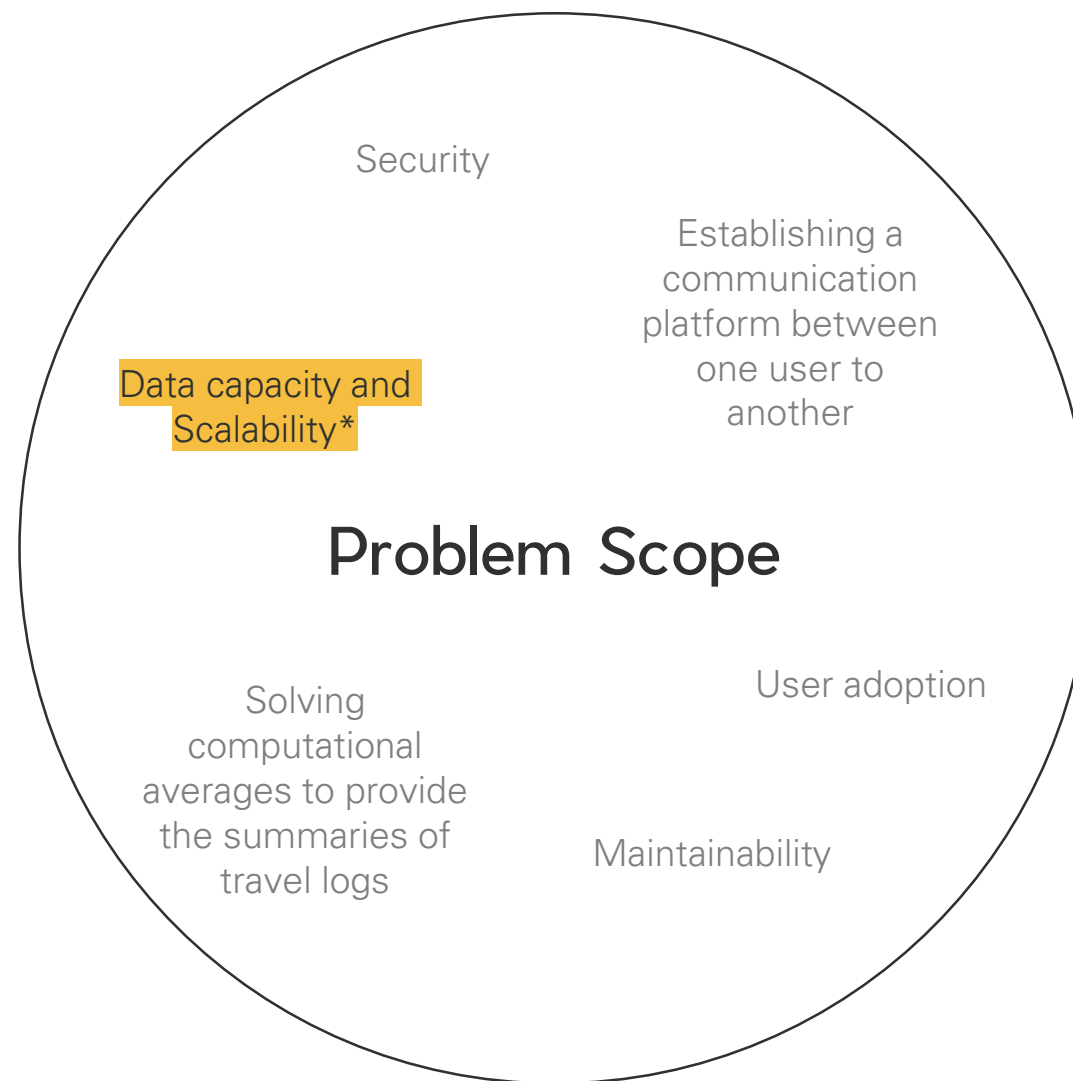# prints

Technology Stack

Project Owner: Karen Yao, IMMT Fall 2019

PROJECT DESCRIPTION & PROBLEM SCOPE

1

A social media travel platform which allows users to create profiles and streamlines documenting travel memories and planned future trips through the collection of flags, photos, durations, locations, location-details, and necessary travel documents in an organized manner. The platform allows users to:

- **Create** unique profile(s)
- **Document** travel logs through date, location, and photo collection*
- **See summaries** of travel logs by percentage or number of days, weeks, months or locations
- **Register** important travel document details if desired i.e. passport details, visas, etc.
- **Take note** of planned or future travels
- **Record** location feedback through rating systems or dropdown choices (budget-range, LGBTQ+ friendliness, PWD friendliness & weather)
- **Connect** with other travelers

Problem Scope

Security

Establishing a communication platform between one user to another

Data capacity and Scalability*

User adoption

Solving computational averages to provide the summaries of travel logs

Maintainability

Main Function / Hardest Problem

TYPE OF PLATFORM PROJECT, COMPANY

2

Mobile Only
Type of Platform

The platform is designed as a **native app for Android phones** because:

- It needs access to device features like the camera, photo gallery & GPS
- It benefits from real-time interactions like profile updates and push notifications
- 7 out of the top 10 countries that travel the most (Finland, USA, Sweden, Denmark, Norway, Hongkong, New Zealand, Canada, Australia, and France) use Android over other operating systems

Complex project that processes heavy loads
Type of Project

A. Size
It aims to be a social network with multiple features on top of its main function. Each user profile can interact with another and interact within the platform in real-time.

B. Speed
It will need to processing heavy loads because of its ability to allow users to update in real-time and access on-the-go functions while travelling.

Proven Market
Type of Company

Goal:
Make a platform that will streamline recording and documenting a user's travels. Since it holds a lot more features over its main function, the *company* is not fully established yet.
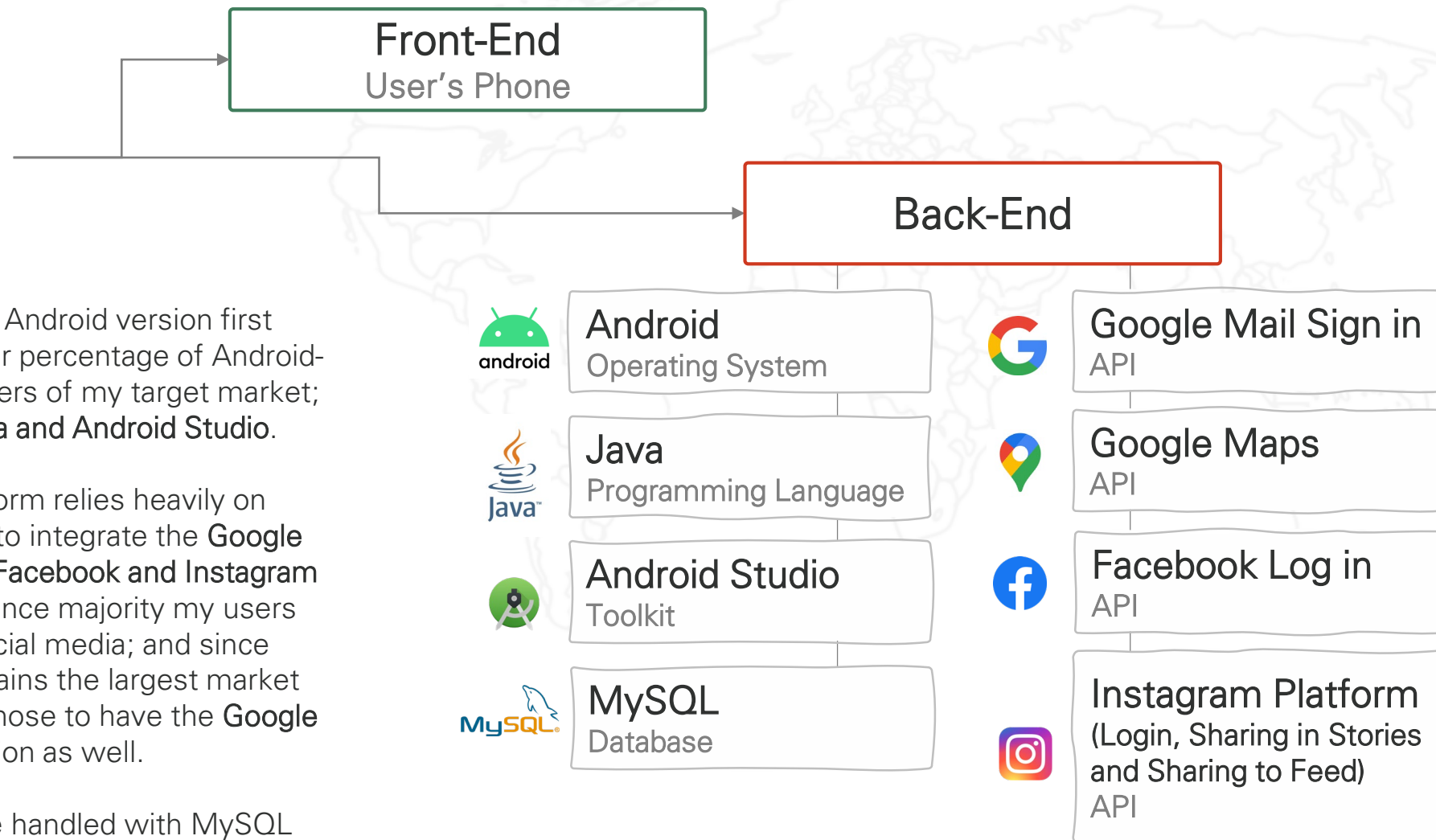
Risk:
The main concern is data capacity and scalability because of the load it will need to collect from users; thus, volume and throughput are largely put to risk in maintaining the performance.

WHICH CODE?

Front-End
User's Phone

Back-End

I chose to launch an Android version first because of the larger percentage of Android-users versus iOS users of my target market; thus, the use of Java and Android Studio.

Also, since my platform relies heavily on locations, I decided to integrate the Google Maps API. APIs for Facebook and Instagram integration is ideal since majority my users (travelers) are on social media; and since Google Mail still obtains the largest market share for emails, I chose to have the Google Mail Sign in integration as well.

The database will be handled with MySQL because of its strong data security and reliability.

Android
Operating System

Java
Programming Language

Android Studio
Toolkit

MySQL
Database

Google Mail Sign in
API

Google Maps
API

Facebook Log in
API

Instagram Platform
(Login, Sharing in Stories and Sharing to Feed)
API

Team	Ave. Salary per hour (Source https://neuvoo.ca/)	Ave. Salary per week	Total Project Salary per person (16 weeks or 4 months)
UX Specialist	CAD 45.00	CAD 1,800.00	CAD 28,800.00
UI Designer	CAD 40.00	CAD 1,600.00	CAD 25,600.00
Mobile Developer	CAD 48.72	CAD 1,948.80	CAD 31,180.80
Java Developer	CAD 59.45	CAD 2,378.00	CAD 38,048.00
			CAD 123,628.80

Feature / API	Category	Cost	Est. Cost per year
Facebook – Log in Integration	Social Media Login	Free	Free
Instagram – Log in Integration	Social Media Login	Free	Free
Instagram – Sharing on feed & stories	Social Media Sharing	Free	Free
Google – Log in Integration	Social Media Login	Free	Free
Google Map – Dynamic Maps	(Google) Maps	Free	Free
Google Map – Autocomplete	(Google) Places	CAD 17.00 per 1000 requests	CAD 204.00
Google Map – Current Place	(Google) Places	CAD 30.00 per 1000 requests	CAD 360.00
Google Map – Time Zone	(Google) Places	CAD 5.00 per 1000 requests	CAD 60.00
			CAD 624.00

TEAM & COSTS TO CONSIDER

4

End.

"Take nothing but pictures, leave nothing but footprints and kill nothing but time."
— John Muir (1838-1914), Mountaineer / Aliyyah Eniath, Author (The Yard, 2016)

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