

TRAVEL TRAILS

An app to collect virtual models of the places you've visited by taking photos and contributing to crowdsourced 3D models.



WHY USE OUR APP

1

Perspective

2

NOSCALGIC

3

social

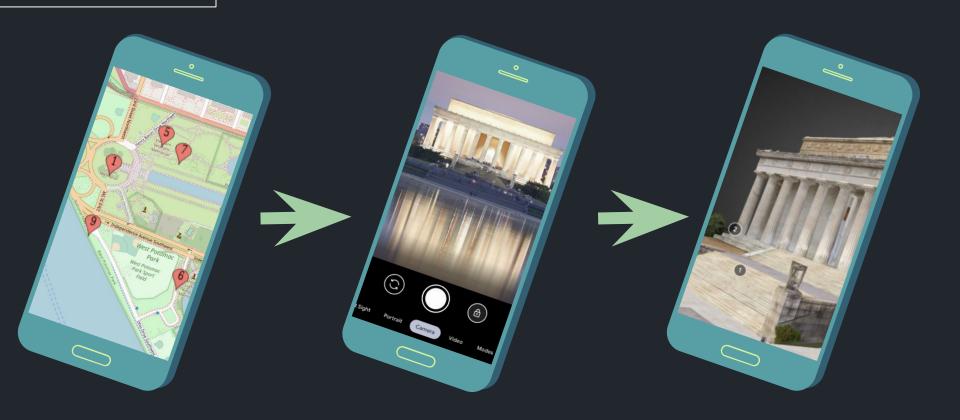


Incentivizing

SYSTEM ARCHITECTURE



OUR APP



APIS & TOOLS

ANDroid Marshmallow 6.0 84.9% 2.5 billion active worldwide Android users



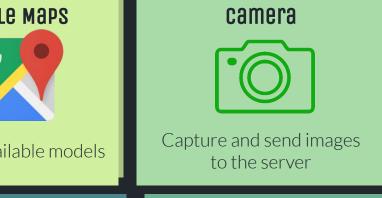






IMAGE PROCESSING PIPELINE

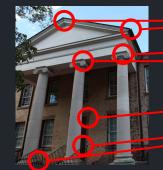


FAST IMAGE LOCALIZATION

3D RECONSTRUCTION LIBRARIES:

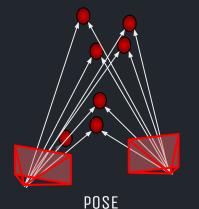
COLMAP OPENSFM BUNDLER

PERIODIC UPDATES



FEATURE EXTRACTION





ESTIMATION



SPARSE RECONSTRUCTION



DENSE RECONSTRUCTION

BACKEND REST API

ALPHA FINAL

POST / UPLOAD

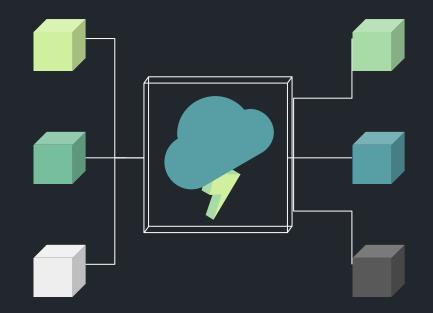
upload a photo, return if successful

GET / MODEL

Get model from location id

GET /nearby

Get possible locations to visit near you given GPS coordinates



GET /LOCACION

Get information about a location

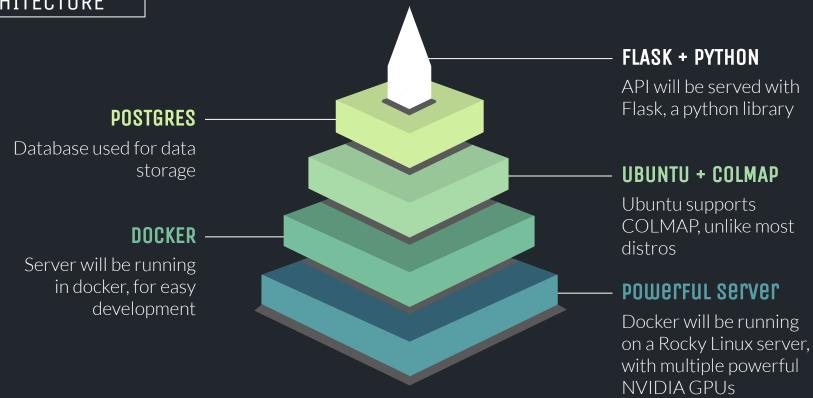
GET /LeaderBoards

Get the current point leaders

GET /CIMELINE

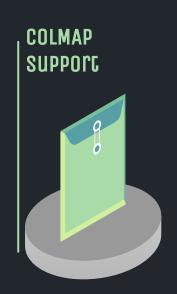
Get locations friends have been

BACKEND ARCHITECTURE



CHALLENGES AND RISKS







FEASIBILITY

	ALPHA	FINAL	SCrecch GOALS
Contribute photos to model	•	•	
Download + view model			
Friends + view where they've been			
Leaderboard	*	*	

THANKS FOR LISTENING!

Questions?



