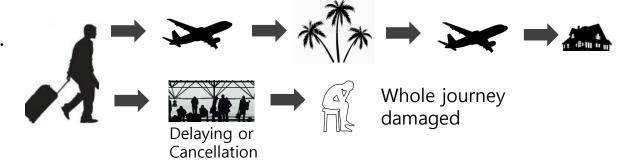
Android Developer Challenge No More Creepy Journey

KUNWOO CHANG

1. Title: No More Creepy Journey

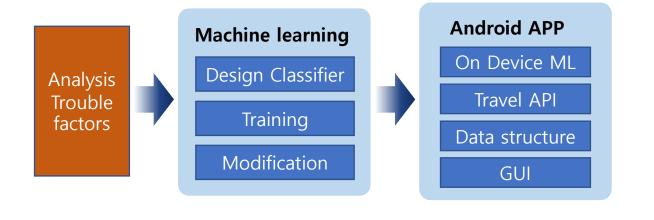
2. Ideas

The risks of travel make to destroy whole schedule. This APP helps to reduce the risks during journey. It will prevent the risks and manage the travel until going home.



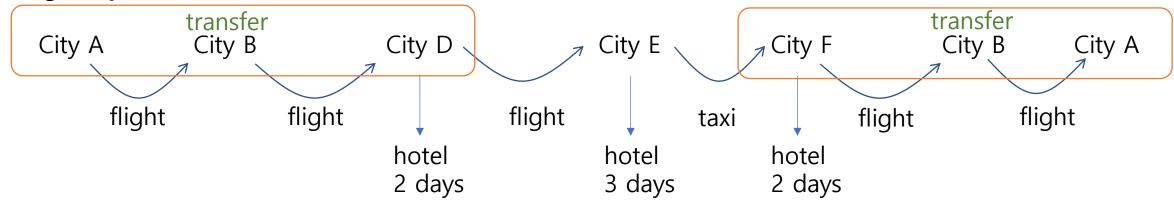
3. Plan

		December			January			February			March			April						
Classifier	Design																			
	train																			
	Modifying																			
Design service	UI, features																			
Bootcamp																				
Finalize details	UI, features																			
APP Development	API Implementation																			
	API combine																			
	Classifier combine																			
	GUI development																			
Test																				
Release																				

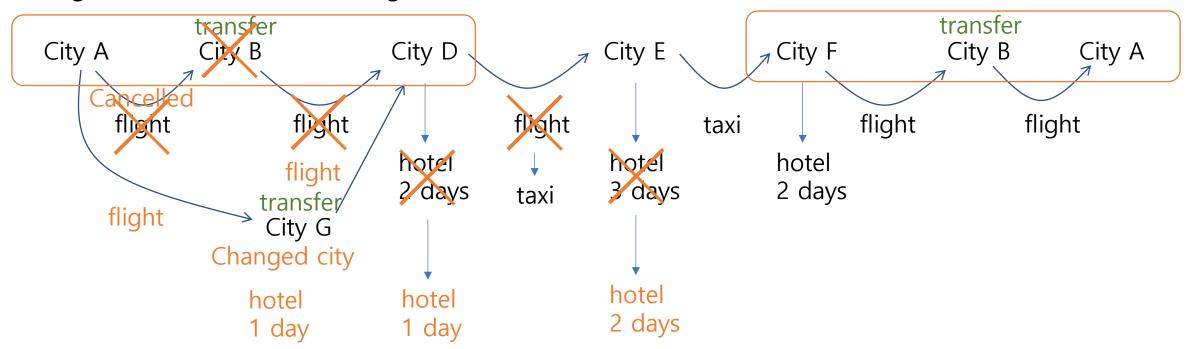


Case study – what happened after flight cancel

Original plan



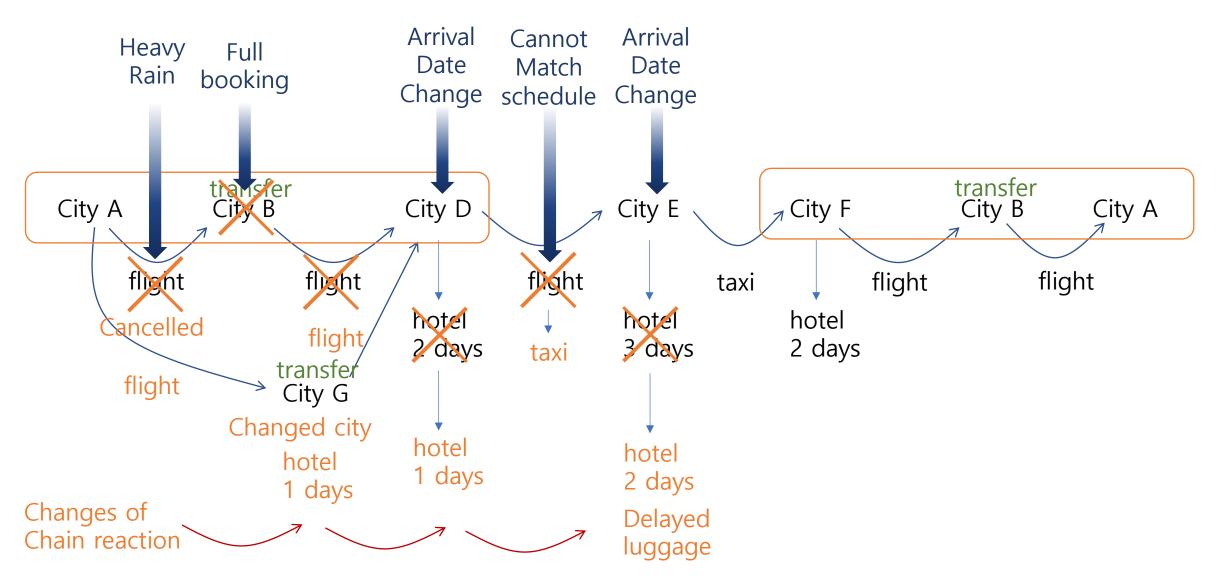
Changed schedule because of flight cancel



Analysis of changes

Changed schedule with factor

Heavy rain makes flight cancel. The flight cancel makes to change the other schedules.



Analysis of changes

Relationship of travel schedule Journey Number Days Day(N-2) Day(N-1) Day2 Day1 Day3 Day(N) Ν Flight Flight2 Flight(M-1) Flight1 Flight(M) M End day of flight Hotel1 Hotel(K) Hotel Hotel2 K Starting day of hotel Car(R) Car rental Car1 R Starting day of car Park Park1 Park(S) Museum Museum1 Museum(L) • • •

Travel items are related starting day. Some items starting day is the other item's end day.
→ Plan to make relationship for travel schedule

Analysis of changes

The reasons of changes. → Risk factors

Flight Weather, mechanical problems, departure airport issues, ...

Hotel No arrival, booking error, small room, Remodeling ...

Car rental No arrival, car accident, car repairing, ...

No arrival, Changed price, No opening date, Under construction, ...

No arrival, Changed price, No opening date, Under construction, ...

• • •

Museum

Park

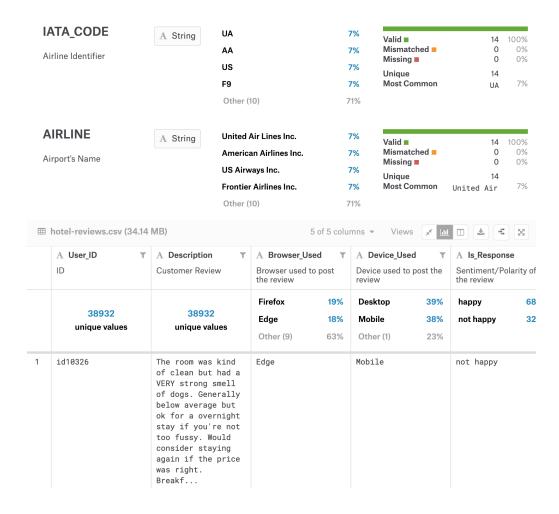
Machine Learning Classifier

Plan to make machine learning classifier based on trouble data.

Trouble factors

Flight cancellation (Kaggle)

Hotel reviews (Kaggle)

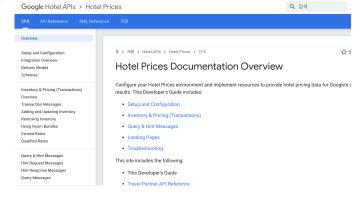


Travel APIs

Plan to implement logic structure based on travel API.

APIs





Google API, Booking API, Kayak, Hotels API, ...

Flight API



Google API, Skyscanner API, ...

Weather API

Google API, OpenWeatherMap API, Weatherbit API, ...

• • •

Comfortable GUI

Plan to make simple and comfort GUI.

Complex Schedule

- . Flight info
- . Hotel info
- . Park, museum, etc.



Easy management

Test and Release

- Unit test
 - . Classifier, Machine Learning modules
 - . API features for each functions
 - . GUI modules
- Integration test
- Release : before May 1st

Future Action

Plan to add the other risk factors such as restaurant, criminal area, taxi, political situation, etc.

THANKS