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Dryft

Description

Dryft is a context-aware tourism app inspired by the idea that managing your time on vacation should be simple and enjoyable. Dryft will auto-generate and plan an entire day of activities and meals for the user while still giving the user the ability to customize parts of their day. Users should be able to build their own personalized tours based on their own interests and intelligent recommendations made by the app.

Intended User

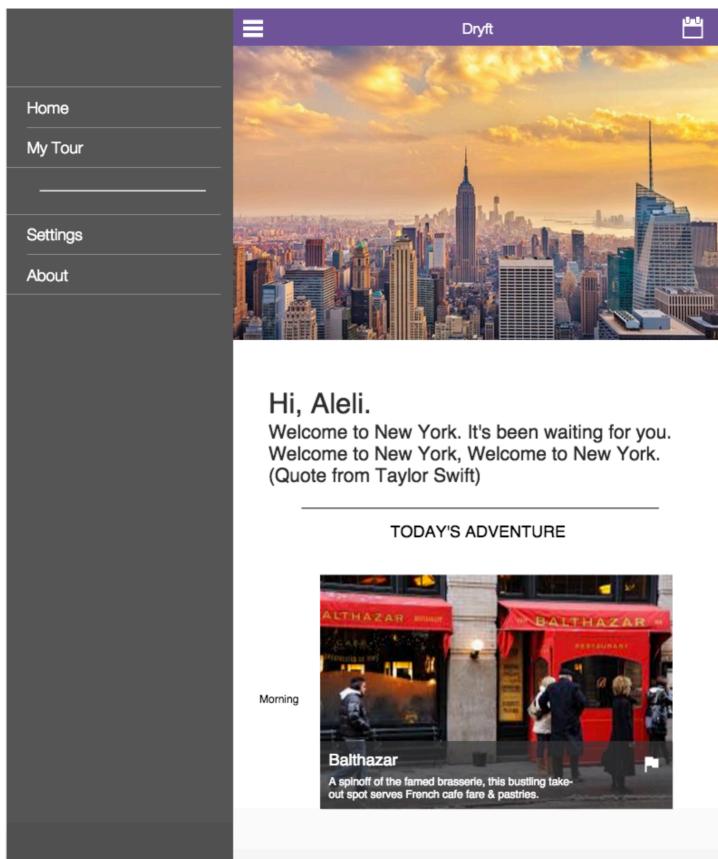
The intended users for this app are travellers. The first iteration of the app will be focusing on Toronto and New York City.

Features

- Location and context awareness
- Intelligent suggestion mechanism
- Auto generated full day tourist itinerary
- Displays details on places of interest
- Allows users to build and save a customized itinerary

User Interface Mocks

Home Page

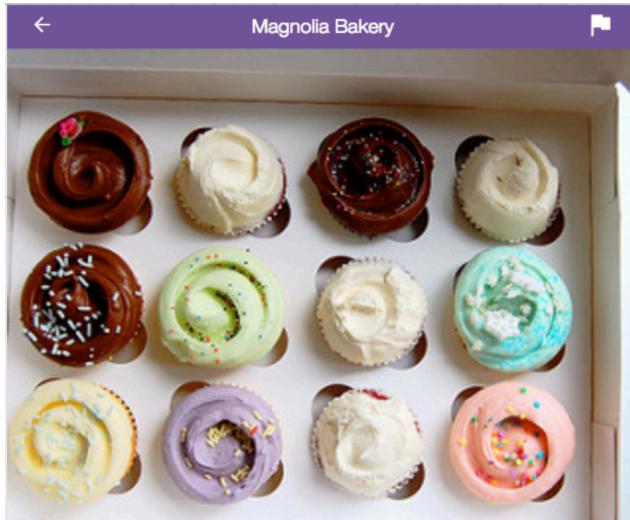


Key Features:

- Greeting: Additional information about the user's current location will be included in the greeting
- Timeline: The left hand side column will represent a timeline of the user's day (Morning, Afternoon, Evening, Night)
- Navigation Pop-up: Additional options will be displayed through a navigation pop-up

- Flag: The user can include suggested places in their personal Tour
- Cards: User can swipe left on the Place suggested and a new Place will be auto-generated

Place Detail



Magnolia Bakery

401 Bleecker Street
New York, NY 10014
+1 212 462 2572
magnoliabakery.com

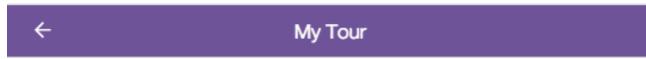
Open Now: 9AM-12:30AM



Key Features:

- Photo(s): Photo(s) of the Place (either one static image, or a series of scrolling images)
- Place Details: Key details about the Place will be displayed on this screen (e.g. address, phone number, website, operating hours, etc)
- Map: A visualization of the Place's location (i.e. perhaps in comparison to the user's current location)

My Tour





Balthazar
A spinoff of the famed brasserie, this bustling take-out spot serves French cafe fare & pastries.

Morning



Children's Museum of the Arts
At CMA, kids create art, including drawings, sculpture, sound art, textiles, and stop-motion animation.



Laduree Restaurant
Upscale bakery with Parisian origins, specializing in French macarons in a number of flavors.

Key Features:

- Timeline: The left hand side column will represent a timeline of the user's day (Morning, Afternoon, Evening, Night)
- Cards: User can swipe left on the Place cards and an option to delete the Place from the Tour will appear. If the user clicks on the Place card, it will direct them to the Place Details page

Key Considerations

Data Persistence Model:

- Content Provider – Build a content provider to handle data pulled from Google Places API
- Shared Preferences - For user settings such as the following:
 - Radius coverage of the app - the farthest distance of any given Place recommendation
 - Categories of Interest – the place type of any given Place recommendation (e.g. park, restaurant, museum)

UX Corner Cases:

- When in Place Detail view, the back button should bring you back to the main page with the selection of Places
- The app should suggest one activity for each section of the day – a new option will appear if the user “rejects” the suggestion (i.e. by swiping left)
- When in the “My Tour” view, the back button should bring back the user to the last navigated page (i.e. either Place Detail view or main page with the selection of Places)

Libraries Used:

- Android Support Package – For standard Android code template and design features
- Retrofit – HTTP client
- Picasso – Manage retrieval and displaying of images from the web
- ButterKnife – Use annotations to inject views with data

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries required

Task 2: Implement Permission Requests

- Determine permissions absolutely required by application
 - Consider reasoning for why a permission is required
- Check for permissions that are currently active
- Gracefully request permissions if necessary
 - Provide user with justification for why permission is required
 - Handle permission requests

Task 3: Implement Location and Context-Awareness

- Determine the user's current location (coordinates) and local time
- Determine any additional information about the user's location (e.g. a neighbourhood, district)
- Determine Shared Preferences (user's settings)
- Based on the context gathered above, make an API request to pull Places that match the user's context

Task 4: Implement Intelligent Recommendation Algorithm

- Organize matching Places gathered in the previous task based on the following categories:
 - Morning
 - Afternoon
 - Evening
 - Night
- Use known metrics such as ratings, reviews, opening hours, geographic placement, and other mined data to select the most appropriate Place(s) to suggest

Task 5: Design UI

- Build UI for Main Page
 - Navigation Drawer
 - Collapsing Toolbar
 - Cards for Places
 - Swipe left on Card and generate new option
- Build Place Detail View
- Build Shared Preferences Page
- Build About Page
- Build “My Tours” Page

Task 6: Implement My Tour

- Allow users to have the ability to save a suggested Place into their own Tour (i.e. through a “flag” button)
- Implement the mechanism for saving and retrieving a saved place (i.e. Content Provider)
- Design UI for the “My Tour” page
- Implement interactions one can do on the “My Tour”
 - Detail view of saved Place
 - Delete saved Place from Favourites list