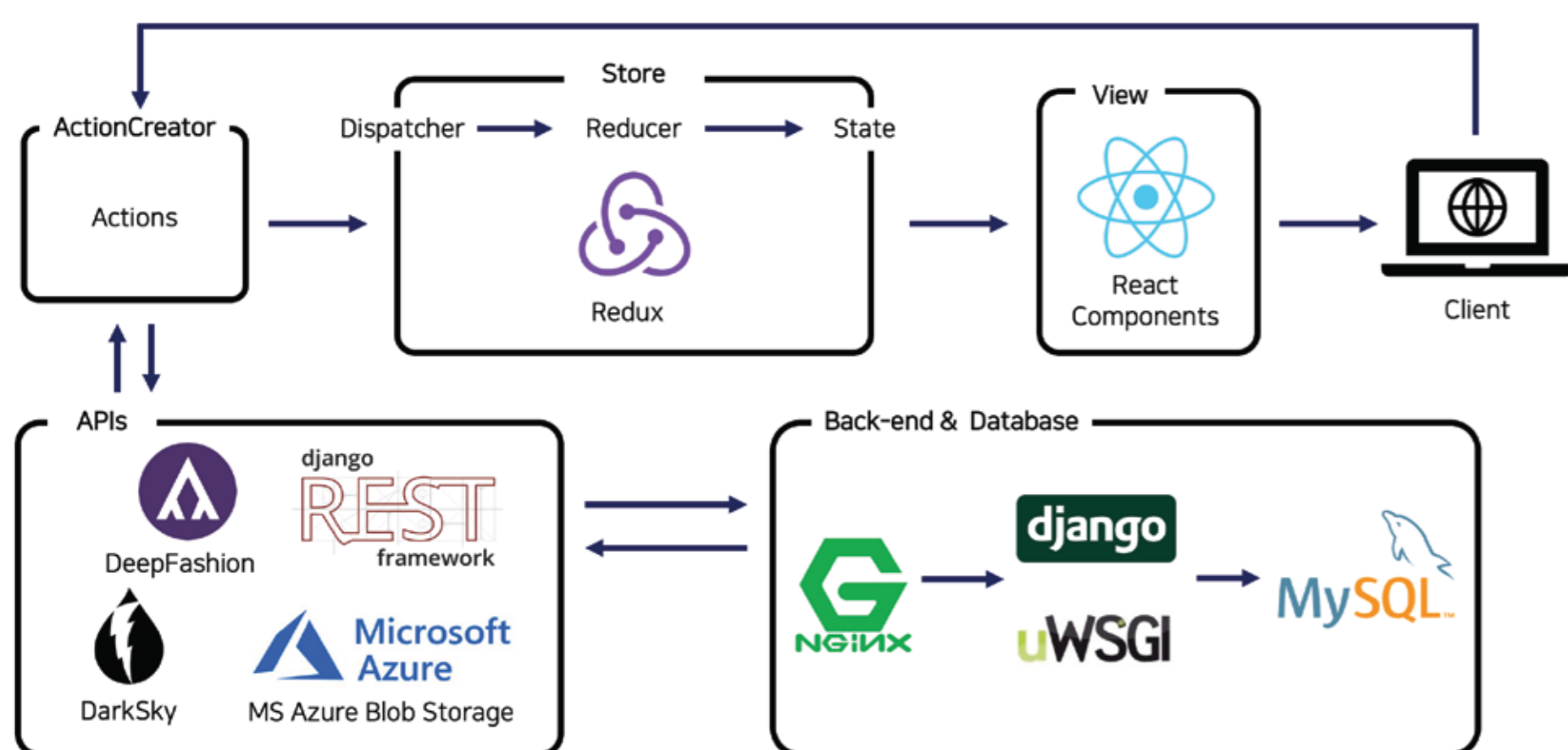Haesoo Kim
Taewon Kwak
Soyoung Jung
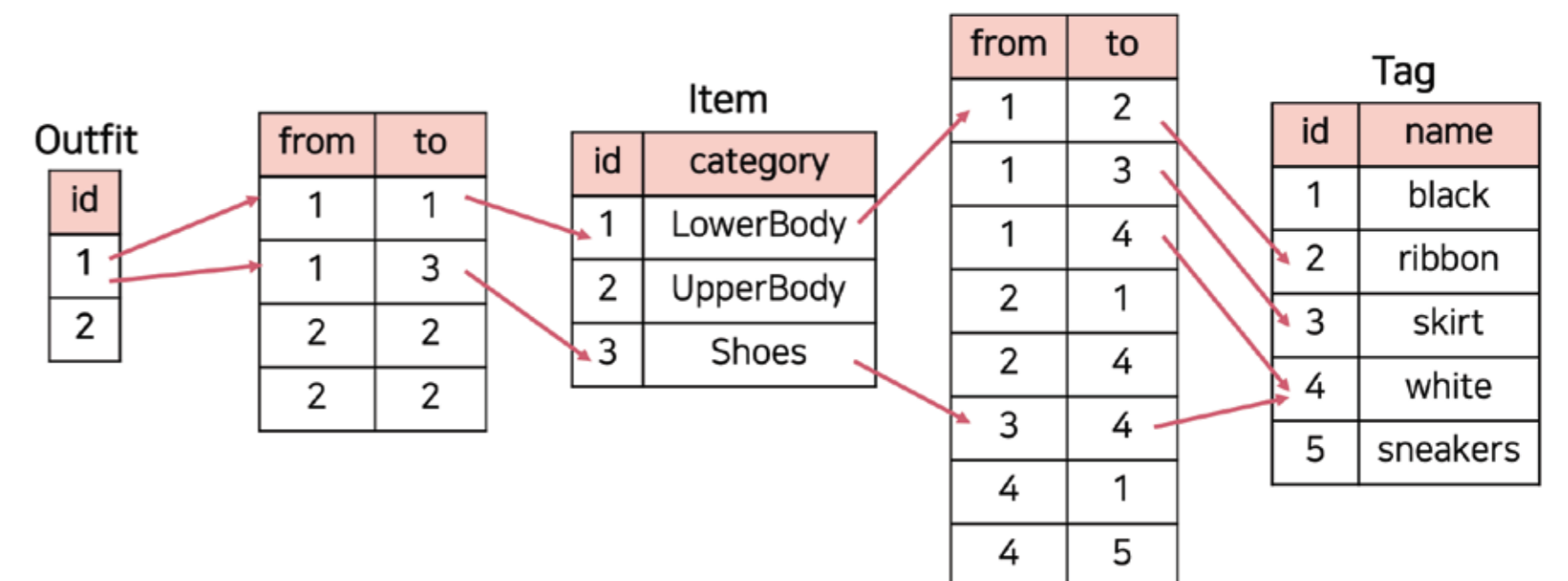Sungyeon Joo

WearHouse
Your very own Fashion Warehouse

Service Introduction

More and more people are keeping records of **OOTD (outfit-of-the-day)** on a daily basis via photo or video, but there is no single service that supports this trend. Wearhouse suggests a simple, intuitive, and systematic way of organizing OOTDs with **user-defined tags**. The service also pvrovides recommendations on what to wear based on weather data and the user's outfit history.
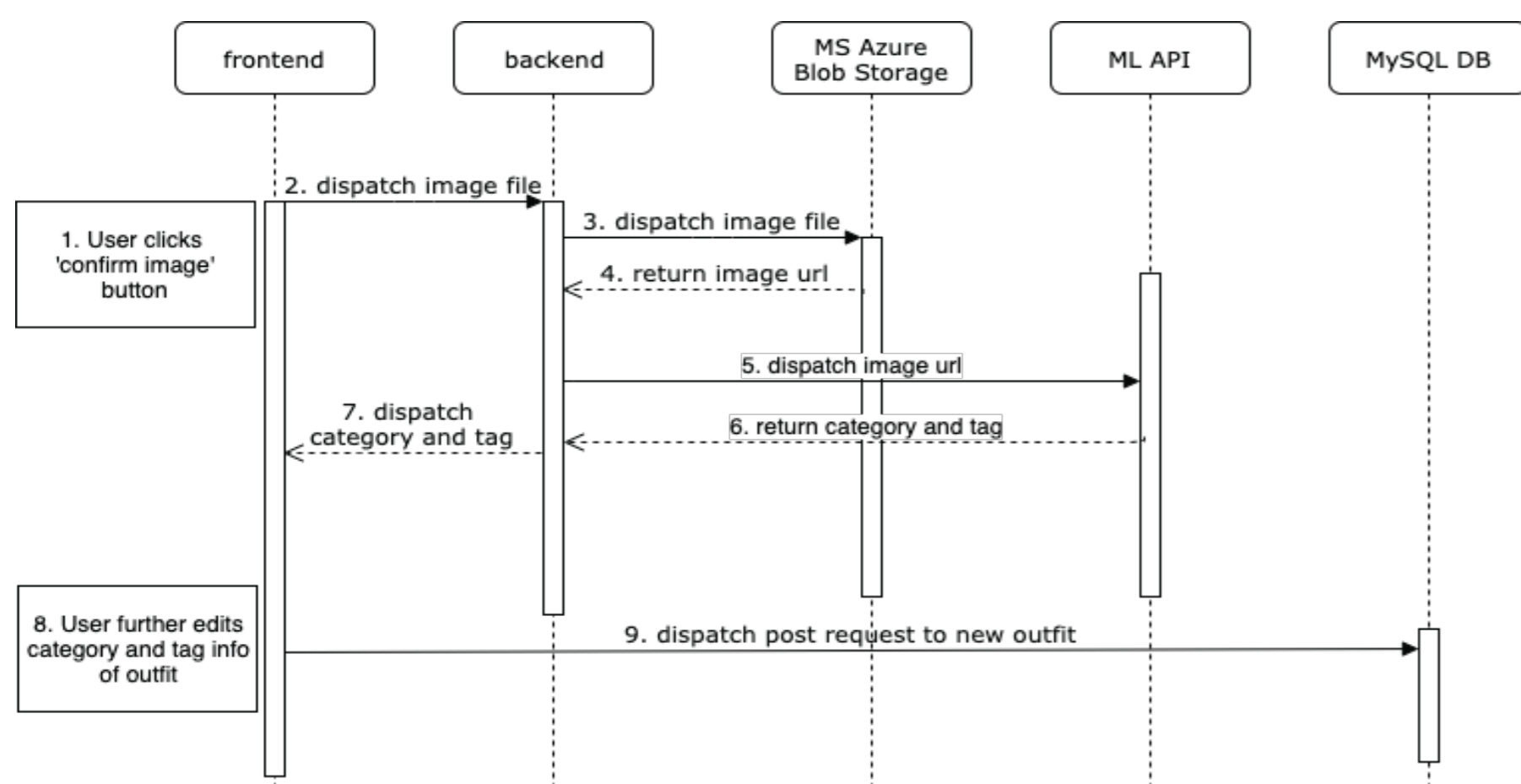
System Architecture

Front-end:
- React.js
- Redux

Back-end:
- Django
- uWSGI/Nginx
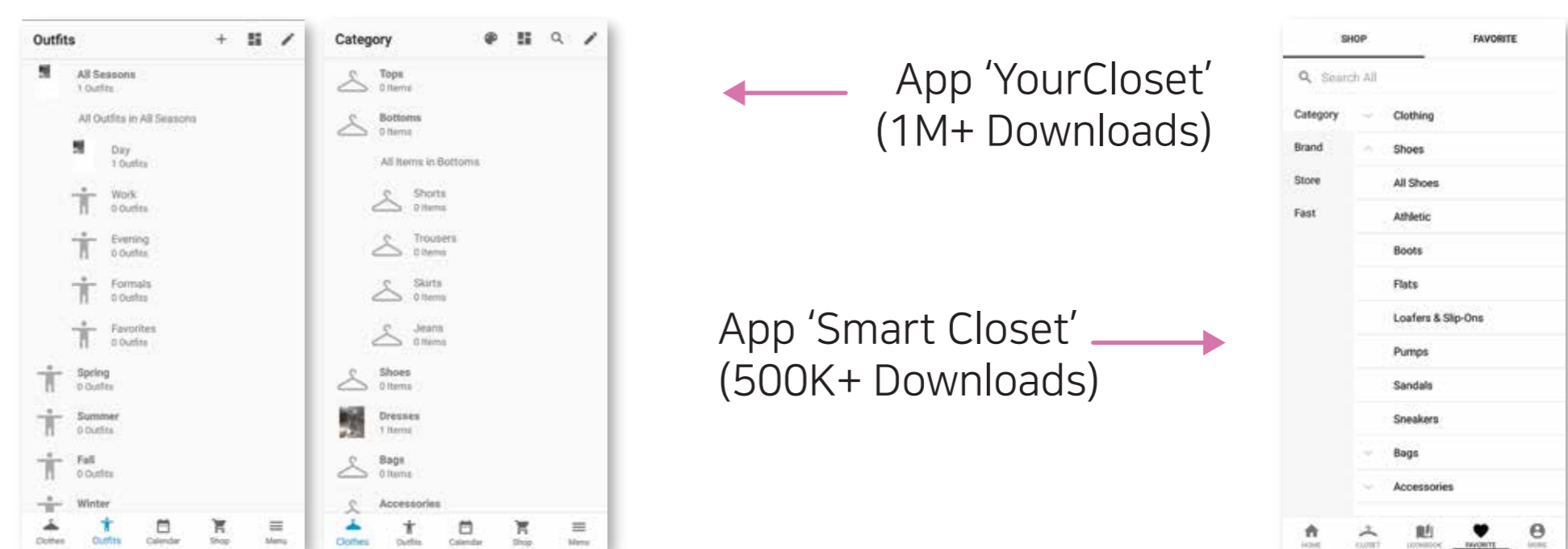- MySQL DB

APIS:
- DeepFashion
- DarkSky

Database Dependencies:
Retrieve higher-order entries(outfit, item) from lower-order entries(tag) - enables autocomplete and search

Dispatch to Azure Blob Storage:
Generate temporary image url without database query

Market Competitors

App 'YourCloset' (1M+ Downloads)

App 'Smart Closet' (500K+ Downloads)

1. **Unintuitive main page**: No images, just a verbose list of categories
2. **Items and outfits are distinguished**: Need to save seperately
3. **Doesn't support search**: Need to click through a series of categories

Main Features

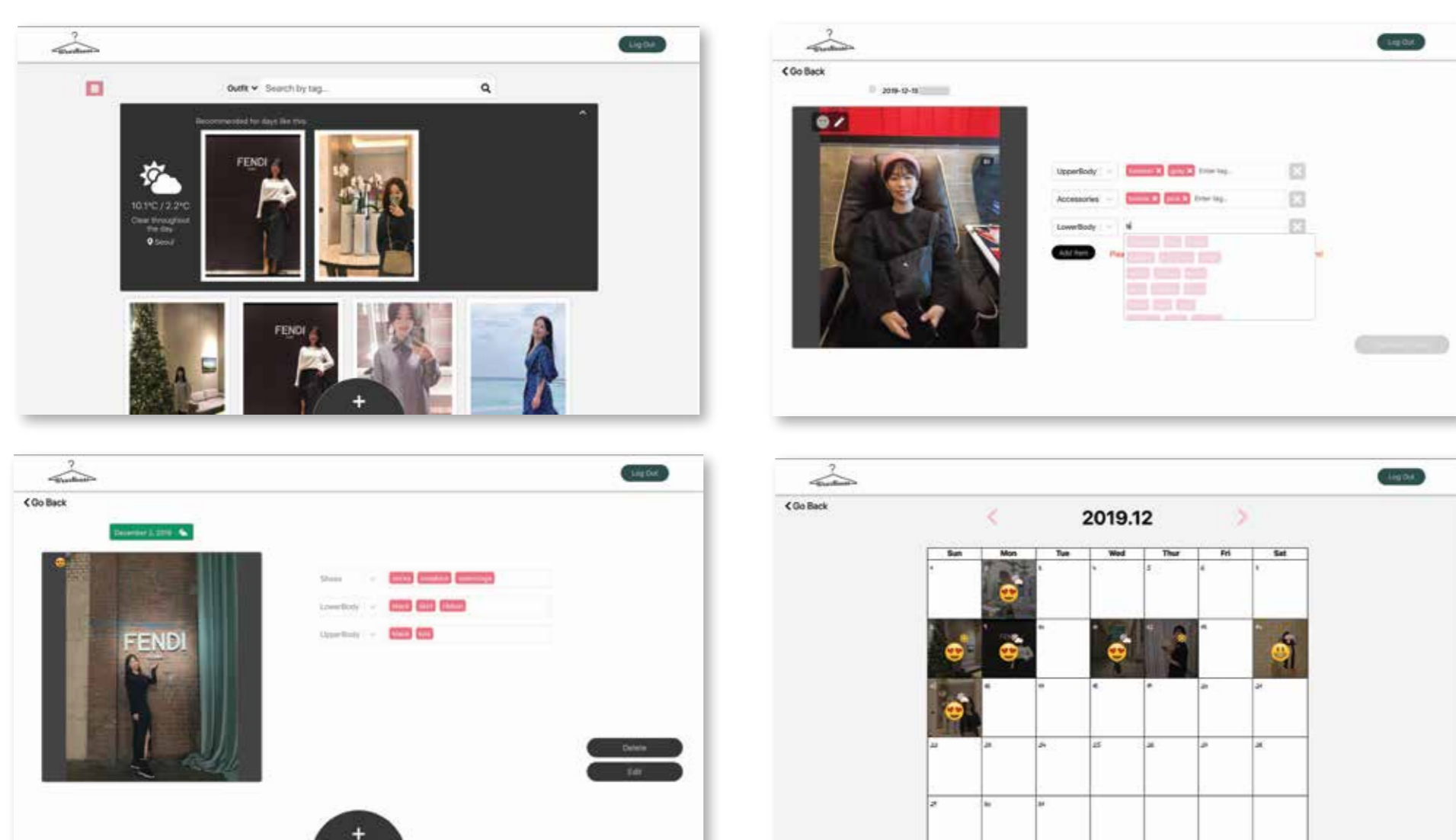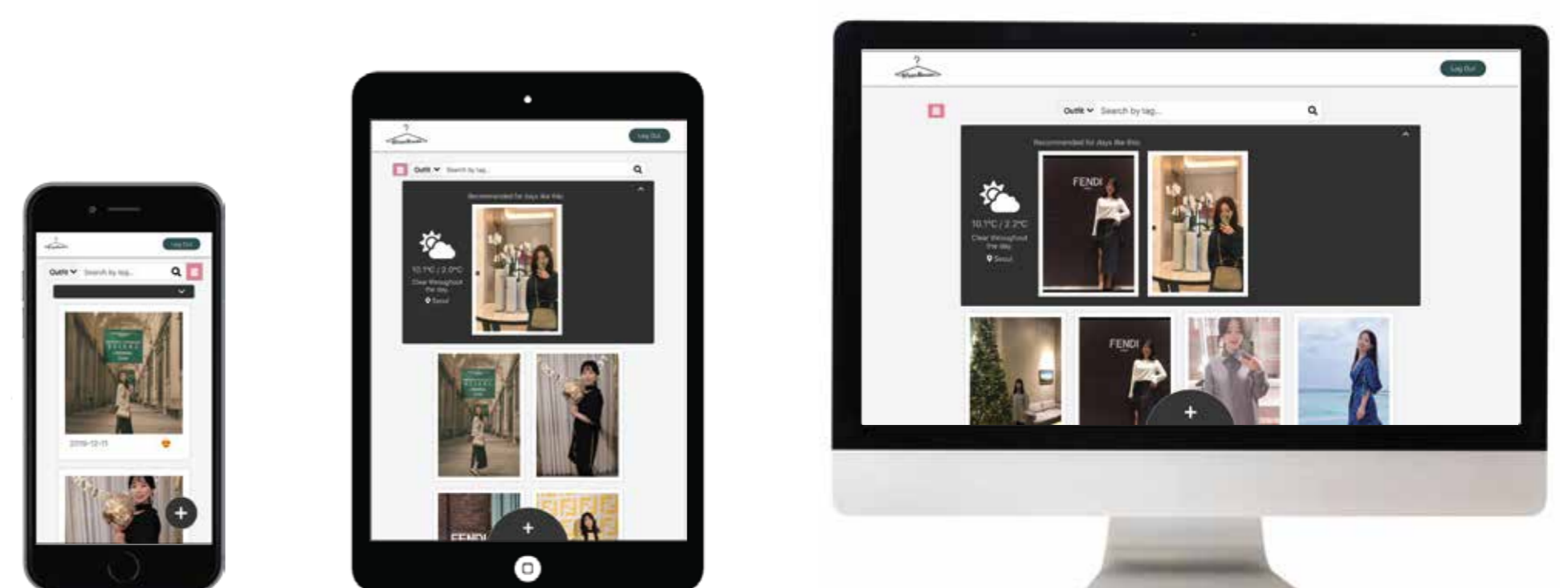| 3-Level Data Classification	Upload Outfit	ML-powered Category Generation	Outfit Recommendation	Date-based Organization	Tag-based Search Feature	Autocomplete Features
Outfits are comprised of items - individual clothes - which are classified by tags	Upload outfit image with user-defined tags, weather data, and satisfaction index	Automatically detect individual clothing items from outfit image	Recommend outfit for a given day based on weather data and outfit history	Provide a summarized calendar view of outfits with satisfaction and weather information	Search through outfits with user-defined tags and filter results by weather/satisfaction	Auto-complete user inputs based on items that the user has already uploaded

User Interface

Responsive Design: Multi-device support

Future Work

Add social media / networking features such as the ability to add friends, visit friends' wardrobes, likes, etc.
Globalization - support multiple languages and browsers
Extend services into a native mobile app instead of a web application to maximize usability on mobile