

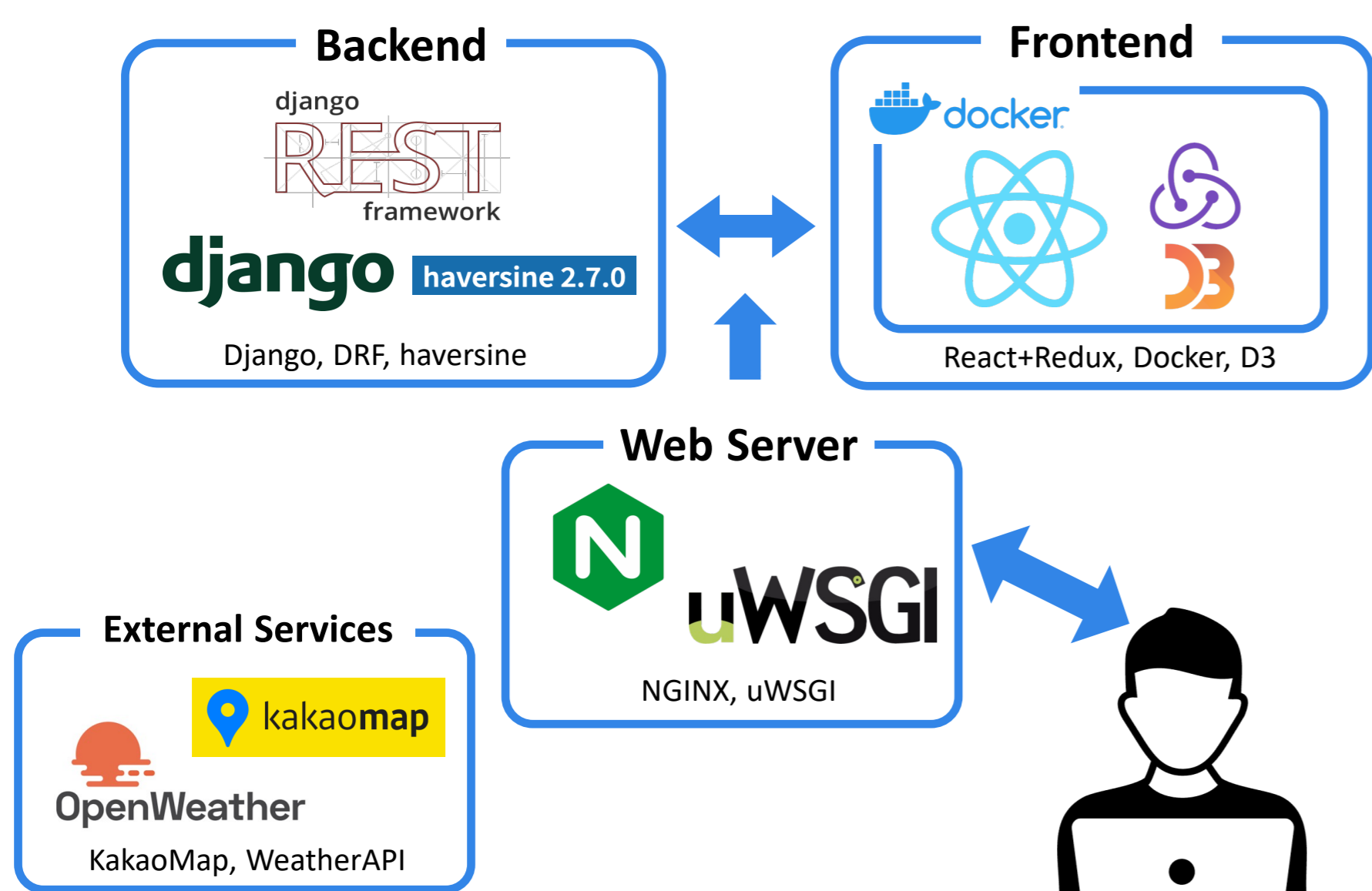


Introduction

NowSee is an everyday, real-time weather community.

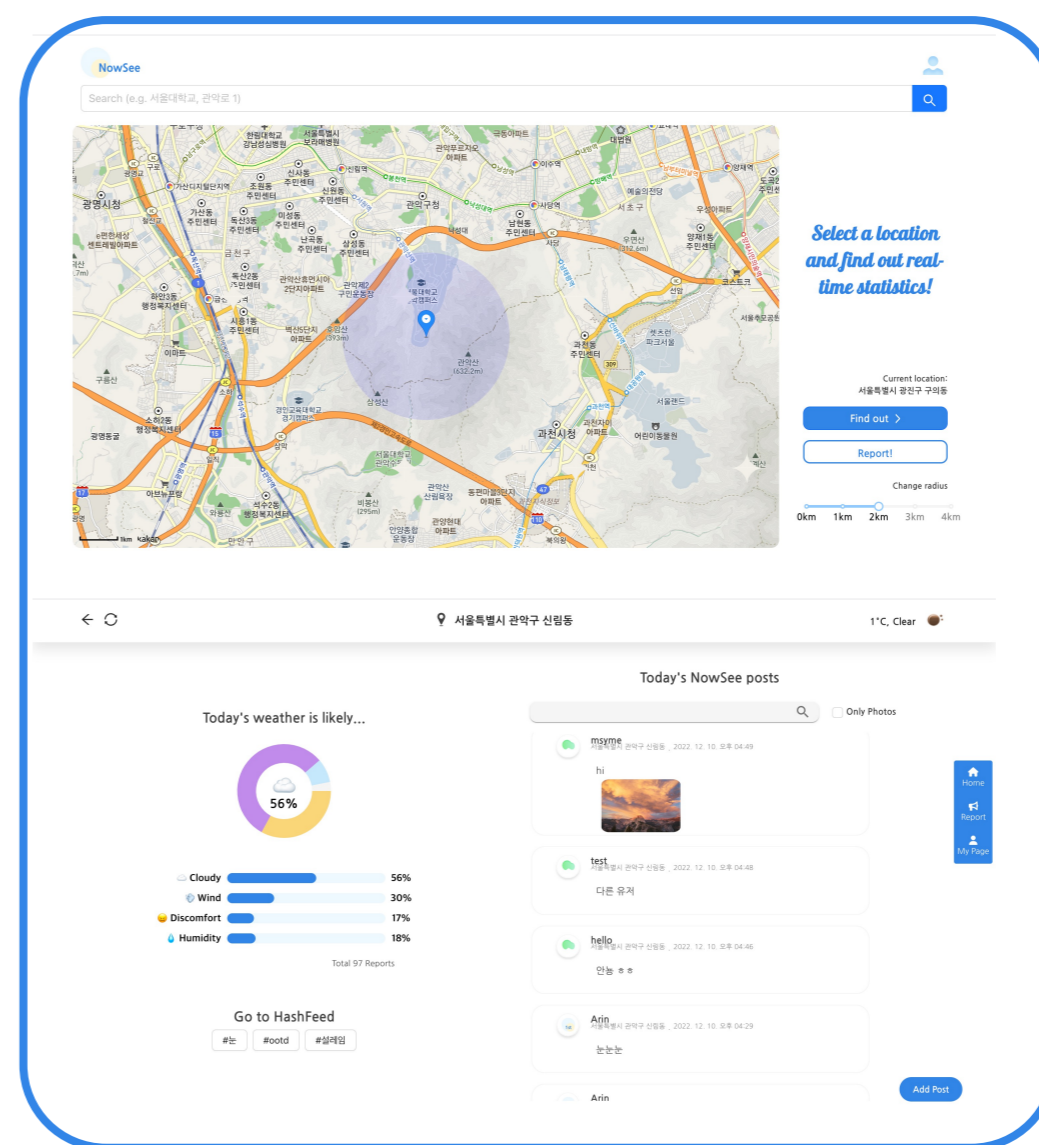
Users can (1) View real-time weather statistics, (2) Look around live weather feeds, and (3) Create weather posts. NowSee can come in handy in several circumstances. What if you're taking your graduation photos today, but the weather forecast only shows a question mark? What if you're at building 302 but have no way of knowing whether bus services were suspended due to snow? On Nowsee, you'll be able to get the answers promptly. With NowSee, users don't need to worry about the weather. Simply open NowSee, select the location you're headed for, and you'll be perfectly prepared for the weather today.

System Architecture

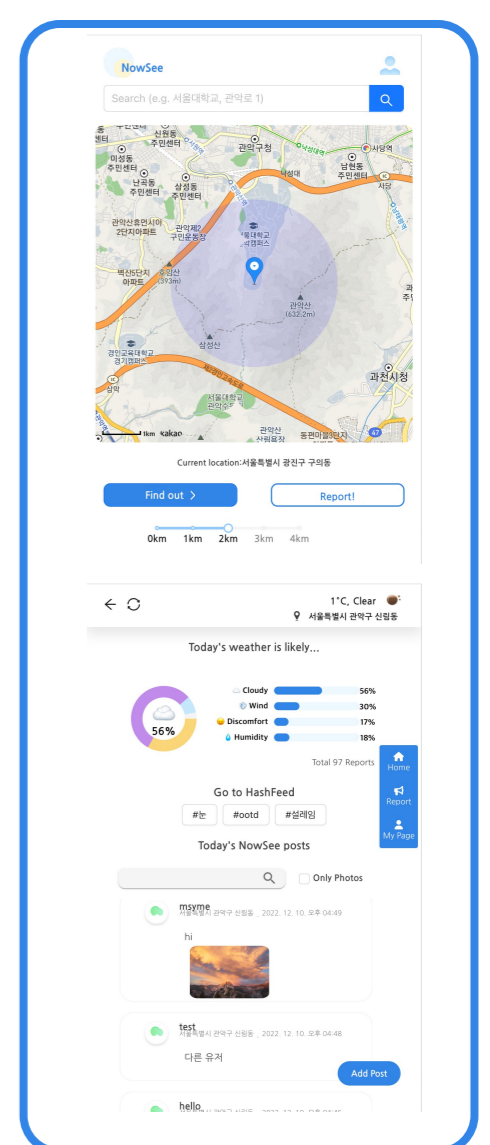


Responsive Design

Desktop View



Mobile View



Page Description

Main page

Users can report the weather and make custom area settings (radius, location)

Area feed

Shows weather statistics and posts of the area

Hash feed

Gathers posts related to a hashtag keyword Shows where the hashtags were frequently mentioned

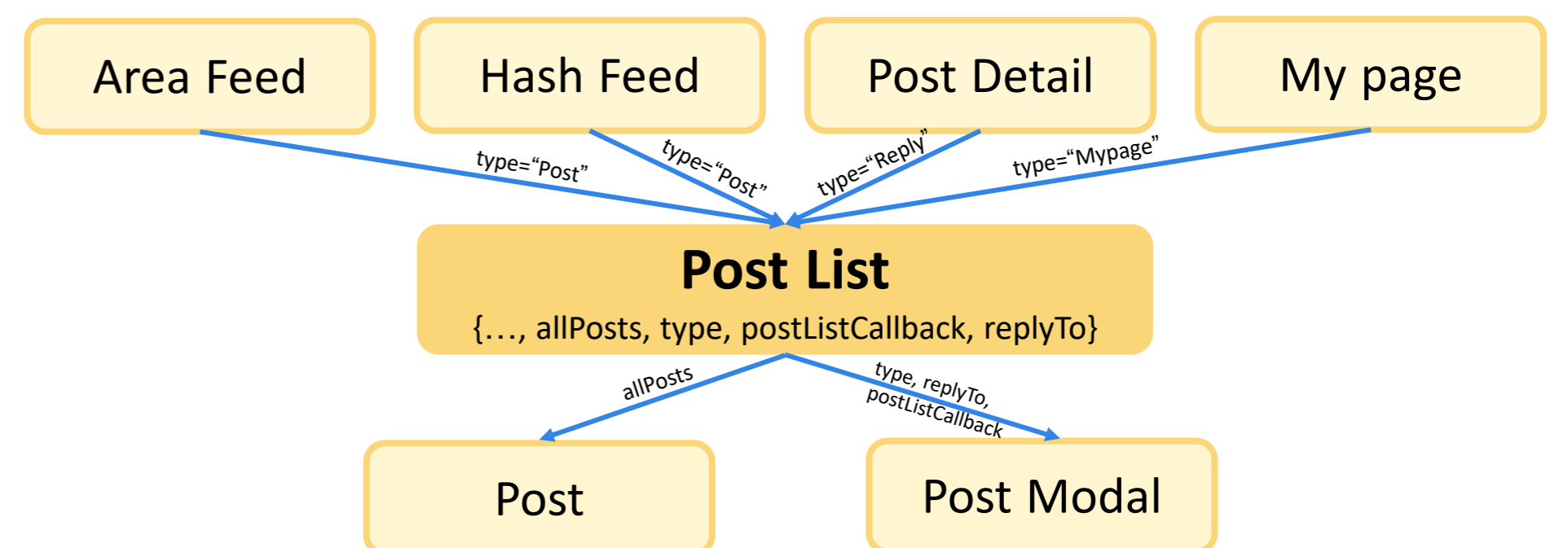
Post detail

Users can find out the details of a post and interact with others by replying to the post

My page / My badges

Users can view their own posts and set their main badge

Container Reuse



Recommendation / Optimization

User-based Collaborative Filtering

$$\text{Score of } hashtag_i = \sum_{j \in users} sim(user, j) * posts(i, j)$$

$$sim(user, j) = \frac{length(hashtags(user) \cap hashtags(j))}{length(hashtags(user) \cup hashtags(j))}$$

$$posts(i, j) = \text{length of posts containing } i \text{ written by } j$$

$$top\ k = \max_k \{score(h_i) + posts(i)\}_{1 \leq i \leq len(hashtags)}$$

For Database Optimization, use..

Cached data, 'select_related' for foreign keys, 'values_list' for computation

Feedbacks

- ✓ Add lock icon to locked badges
- ✓ Hash Feed: Insight collected from hashtags
- ✓ View collected 'my posts'
- ✓ Automatically log in when sign up

Future Works

- Save favorite location
- Adjust report score to make statistically unbiased
- Recommend weather related items
- Add more badges