

You & MEet

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Adjust and manage your appointment time conveniently

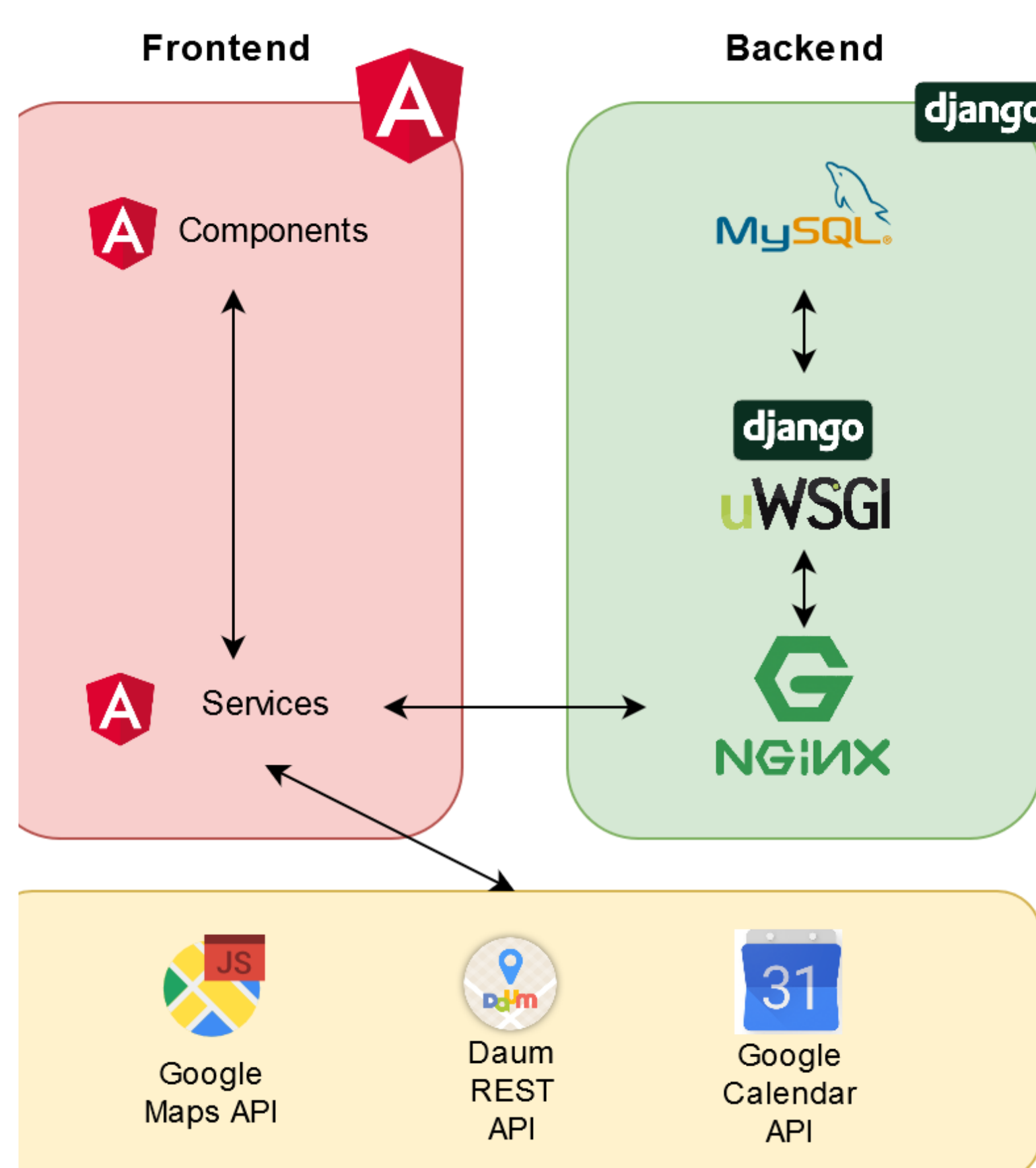
Introduction

Today, many groups make their appointments by their messengers such as Kakaotalk. However, these services only provide basic functionality and is cumbersome to use. By using a smart algorithm, our web service suggests best times for the appointments. In addition, it can show and recommend the best place for an appointment. With our service, groups of people can make their appointment more easily and conveniently.

Features

1. Create appointment 'Rooms'
2. Invite friends via simple link
3. Find the common best time for the most people
4. Set place for appointment
5. Mobile compatible UI
6. Non-member Login

System Design & Architecture

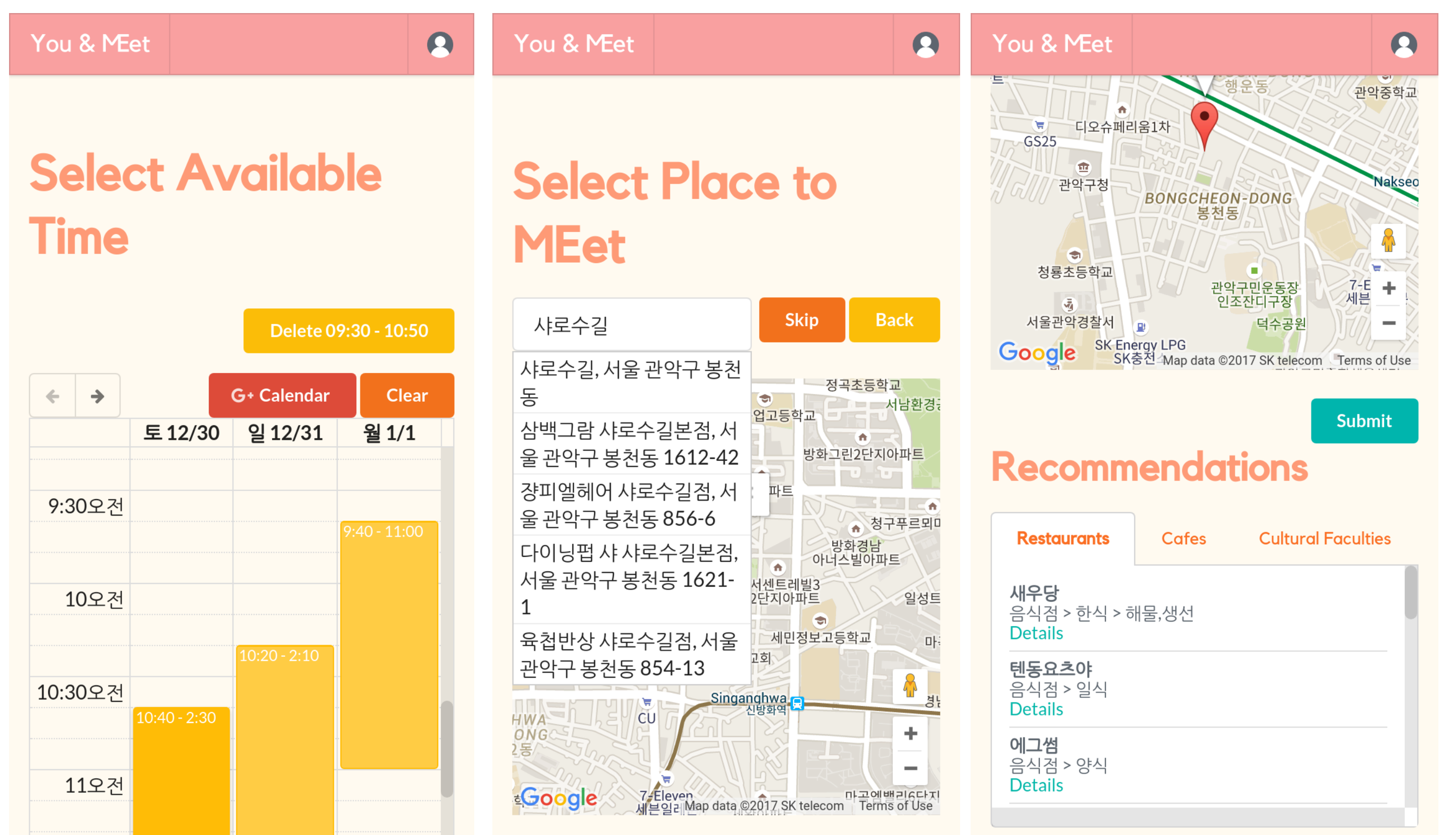
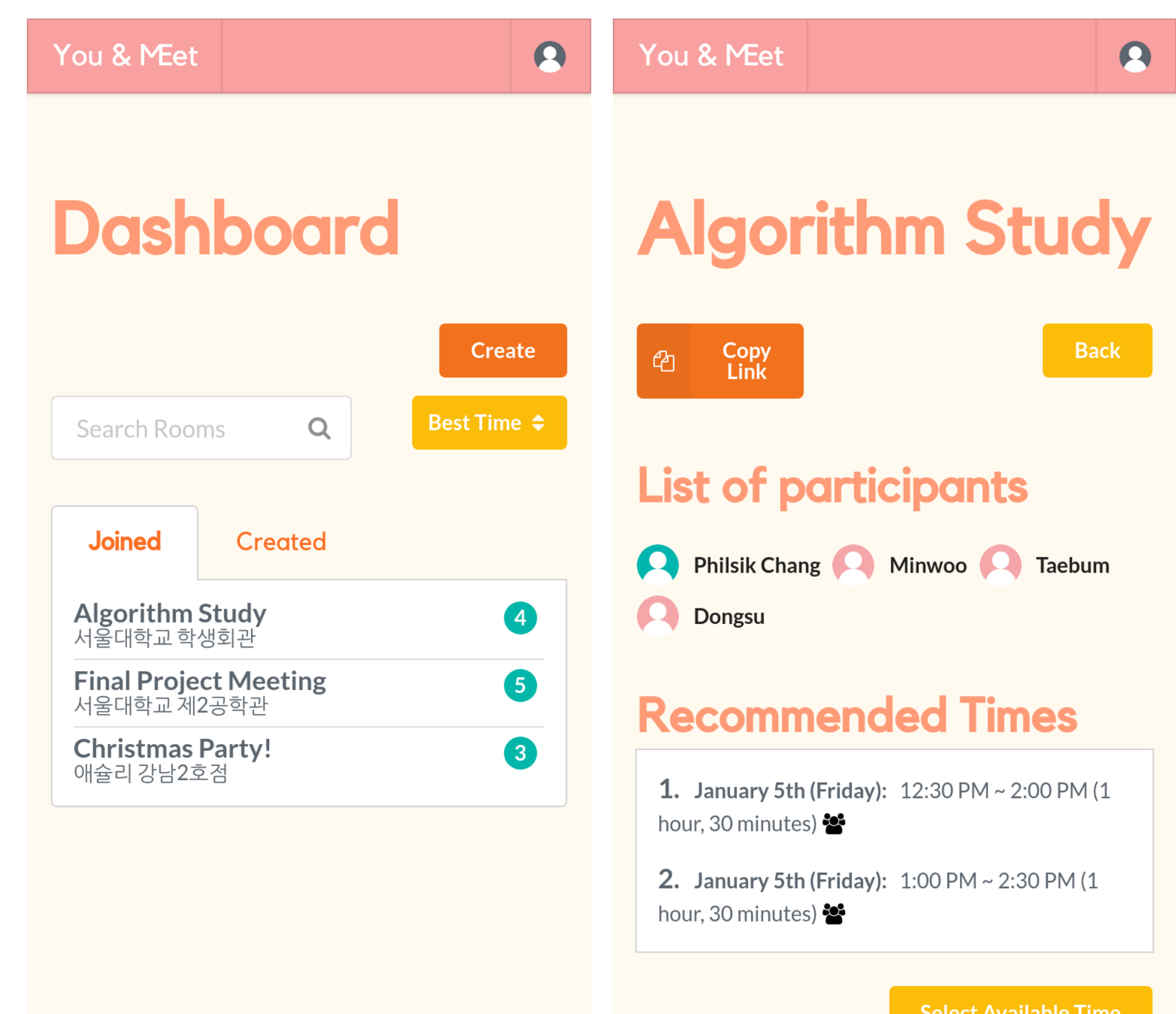


Frontend
• Angular 4
• Semantic UI

Backend
• Python Django
• Nginx / uWSGI
• MySQL (DB)

External Services
• Google Map
• Google Calendar
• Daum REST API

User Interface & User Experience



Best-time Algorithm

```
calculateBestTime(freeTime[], minPeopleRequired, minTimeRequired):  
/* freeTime[] is list of (start, end) in increasing order with length N.  
* Each item's time count(number of available people) are greater or equal than  
  certain criteria.  
* No intersect pair exist. */  
  
for i from 0 to N - 1:  
  time = freeTime[i]  
  if time.end - time.start >= minTimeRequired:  
    add time as best time candidates  
  else:  
    for j from i + 1 to N - 1:  
      nextTime = freeTime[j]  
      if time and nextTime are continuous:  
        time = expandBestTime(time, nextTime)  
  
  if time.end - time.start >= minTimeRequired  
    and time.timeCount >= minPeopleRequired:  
    add time as best time candidates
```

Future Works

- User invitation within service
- More options for creating appointments
 - Set essential members
 - Service for multi-day trips
 - Weekly repeating schedules
- Internationalization