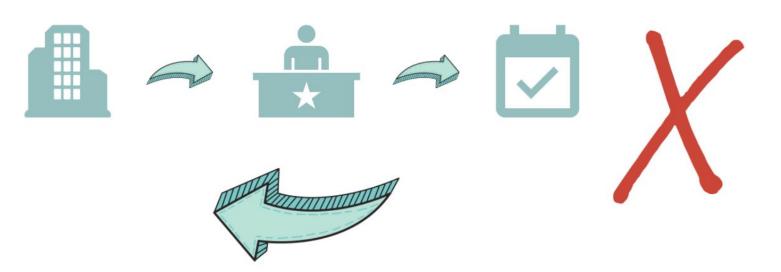
# **Brandeis Schedule**

Team 4: Susan Li, Jane Wang

**Problem Space** 

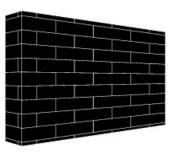
Cumbersome
Time Consuming
No Direct Resources
No Automation



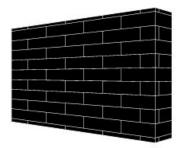
## Result

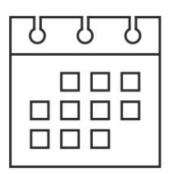


# **Blocked Communication!**





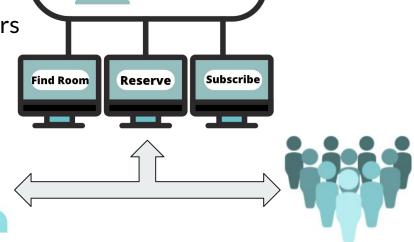




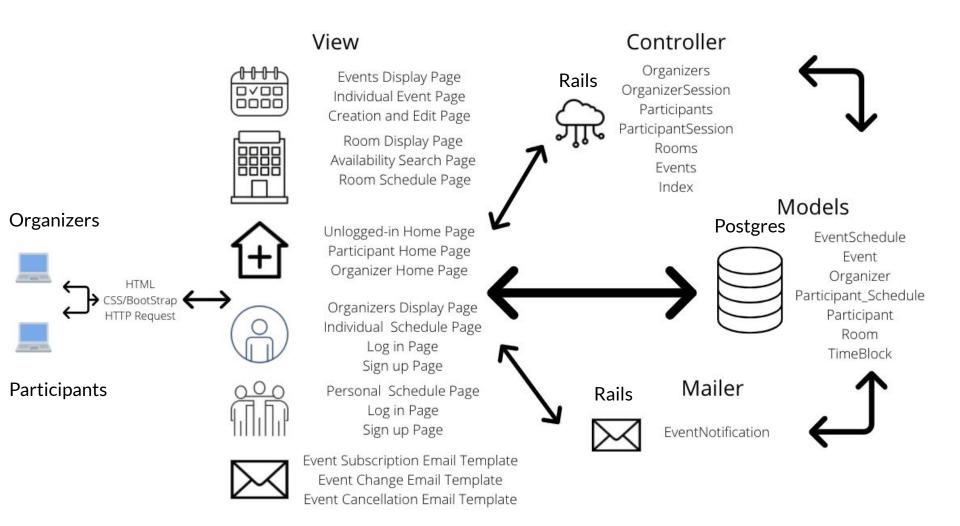
## **Solution**

 Two Sided Platform between student organizers and participants

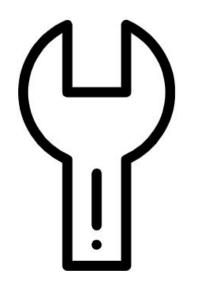
One Stop Shop for All Brandeis Events



- Live Demo
  - Brandeis Schedule



## **Gems and Libraries**



icalendar gem

nokogiri gem open-uri gem

figaro gem

faker gem

Custom Class: Calendar

## **Data Seeding**

- Live Data Import from Brandeis Website
  - open-uri gem
  - nokogiri gem
  - icalendar gem
- Calendar Updates From User End
  - icalendar gem: uid field
    - Eg. http://uid.trumba.com/event/156811124\
    - Compare and Update

### **Usdan Student Center**

brandeis.edu/student-activities/clubs-organizations/club-support/event-support/capacities.html

This space should be booked through Conference and Events Services.

| Location                          | Capacity   |
|-----------------------------------|--|
| Alumni Lounge, 2nd Floor          | 100 (Aud. Style), 72 (Banquet Style)               |
| International Lounge, 1st Floor   | 120 (Aud. Style), 72 (Banquet Style)               |
| Levin Ballroom, 1st Floor         | 450 (Aud. Style), 300 (Banquet Style), 750 (Empty) |
| North/South Mezzanines, 2nd Floor | 80 (Aud. Style), 50 (Banquet Style)                |

#### Hassenfeld Conference Center

This space should be booked through Conference and Events Services.

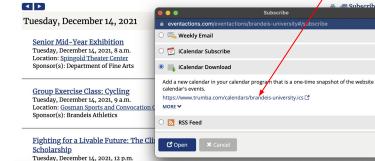
| Location              | Capacity                          |
|-----------------------|-----------------------------------|
| Sherman Function Hall | 350 Aud. Style, 240 Banquet Style |

Subscribe

### **Brandeis Campus Calendar**

### All Events

All events are listed in Eastern Time. Please refer to our COVID-19 response website for information about current COVID-19 policies.



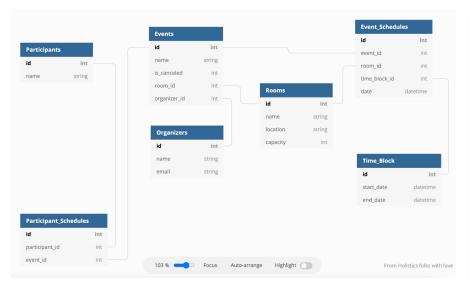
### **Icalendar Gem Custom Field**

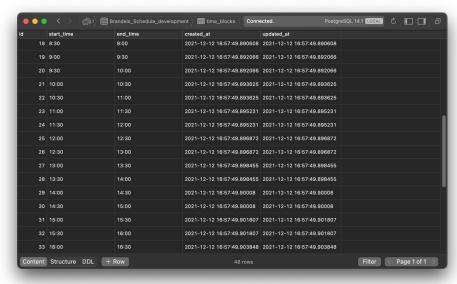
```
irb(main):010:0> events.custom_properties
=>
{"x_microsoft_cdo_alldayevent"=>["FALSE"],
   "x_trumba_customfield"=>["Brandeis Event Template", "Spingold Theater Center", "Dreitzer Gallery", "Department of Fine Arts"],
   "x_trumba_link"=>["https://www.brandeis.edu/events/?trumbaEmbed=view%3devent%26eventid%3d156811122"]}
```

- Text Parsing
  - Regex

```
irb(main):011:0> events.to_ical
=> "BEGIN:VEVENT\r\nDTSTAMP:20211201T160859Z\r\nUID:http://uid.trumba.com/event/156811122\r\nDTSTART;TZID=America/New_York:20211210T080000\r\nDTEND;TZID=America/New_York:20211210T230000\r\nDTEND;TZID=America/New_York:20211210T230000\r\nDESCRIPTION:Come see work by our majors and minors in studio art!\r\nLOCATION:Spingold Thea ter Center\r\nSUMMARY:Senior Mid-Year Exhibition\r\nCATEGORIES:Brandeis Events\r\nX-MICROSOFT-CDO-ALLDAYEVENT:FALSE\r\nX-TRUMBA-CUSTOMFIELD;
NAME=Event Type;ID=21;TYPE=number:Brandeis Event Templ\r\n ate\r\nX-TRUMBA-CUSTOMFIELD;NAME=Location;ID=33270;TYPE=CustomAsset:Spingold Thea t\r\n er Center\r\nX-TRUMBA-CUSTOMFIELD;NAME=Room;ID=33271;TYPE=SingleLine:Dreitzer Gallery\r\nX-TRUMBA-CUSTOMFIELD;NAME=Event sponsor(s);ID=33274;TYPE=MultiLine:Departme\r\n nt of Fine Arts\r\nX-TRUMBA-LINK:https://www.brandeis.edu/events/?trumbaEmbed=view%3devent%26e\r\n ventid%3d156811122\r\nEND:VEVENT\r\n"
```

## Room Availability Algorithm and Complex Database





## Repetitive Methods and Algorithms

- Custom PORO
  - Calendar
    - check room availability(room\_id, date, start\_time, end\_time)
    - find\_available\_rooms(date, start\_time, end\_time)
    - get\_current\_event
    - get\_by\_event\_name(name)
    - **.....**
  - Readable Codes
  - Easier Testing and Debugging

## **Email Updates on Event**

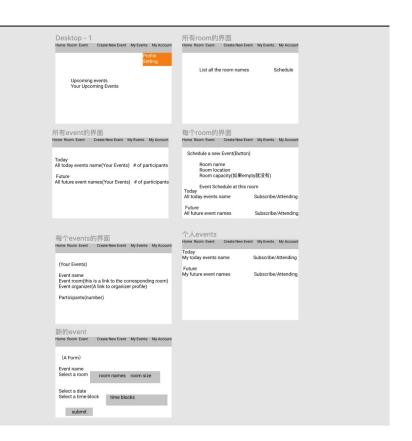
- Send Email
  - Action Mailer
  - o figaro gem
  - brandeisschedule@gmail.com
- Event Invitation
  - ics file as attachment
    - icalendar gem

user\_name: ENV["GMAIL\_USERNAME"],
password: ENV["GMAIL\_PASSWORD"]

## **Our Approach**

- Clear Work Division
  - Susan: Back-End
  - Jane: Front-End
- Work Schedule
  - Product and UI design
  - Trello for work updates





## **Future Development**

- Incorporate Brandeis Event Application Process
  - Google OAuth and Brandeis Login authentication
  - Programmatic fill in and submission of Brandeis Event Application Form
  - Include Pending, Accepted, Declined status for event application (Either Work with Brandeis Student Activity Department or Read From Email)
  - Tackling Real World Problem!
- Chat and Social Media
  - Participants could communicate with other users
  - Participants could communicate with organizers directly
- Algorithm that can advertise to users any potential events they might be interested in based on their event subscription.

## **Takeaway**

- Best teamwork: communication, accountability, encouragement to each other
- Experience of building a software from scratch

## **Thank You!**

Any Questions?