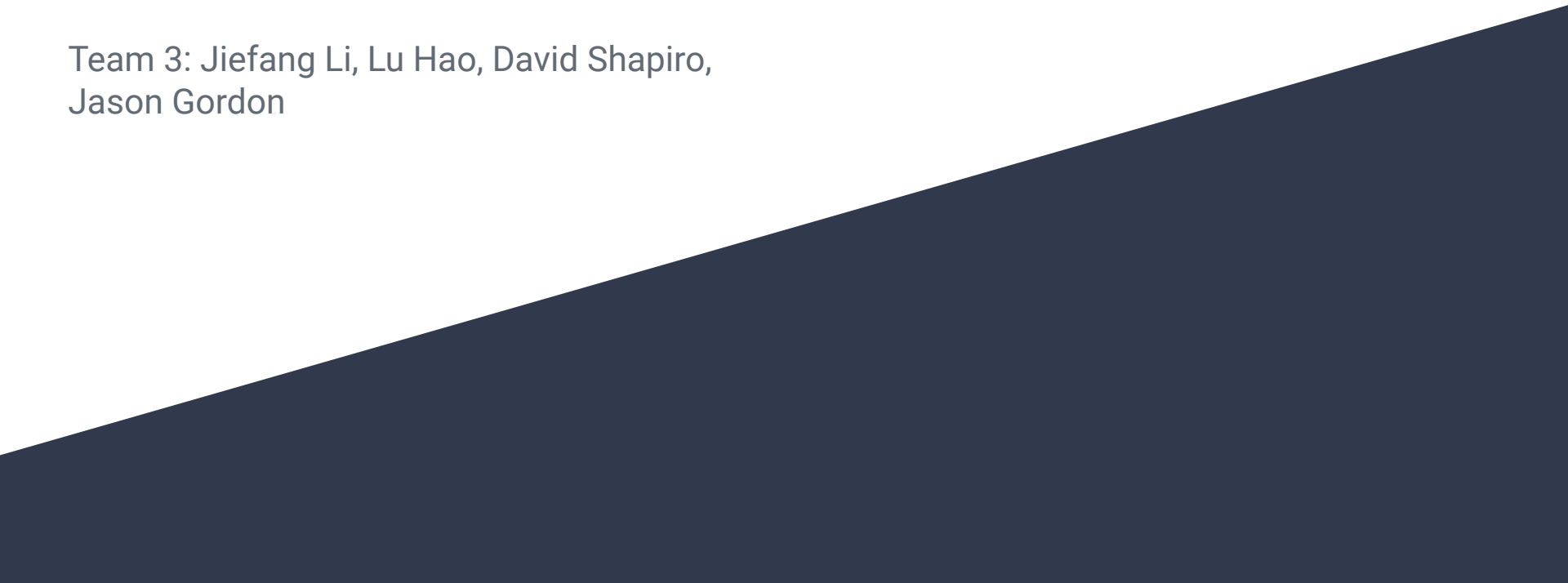


# Brandeis Class Hub

Team 3: Jiefang Li, Lu Hao, David Shapiro,  
Jason Gordon

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

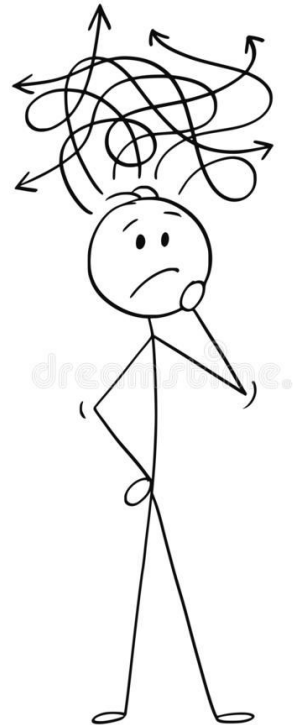
# Problem Space

- How do you organize your schedule in a clear and simple way?



# Result

- 3+ Systems, one person
- Lots of confusion!!!

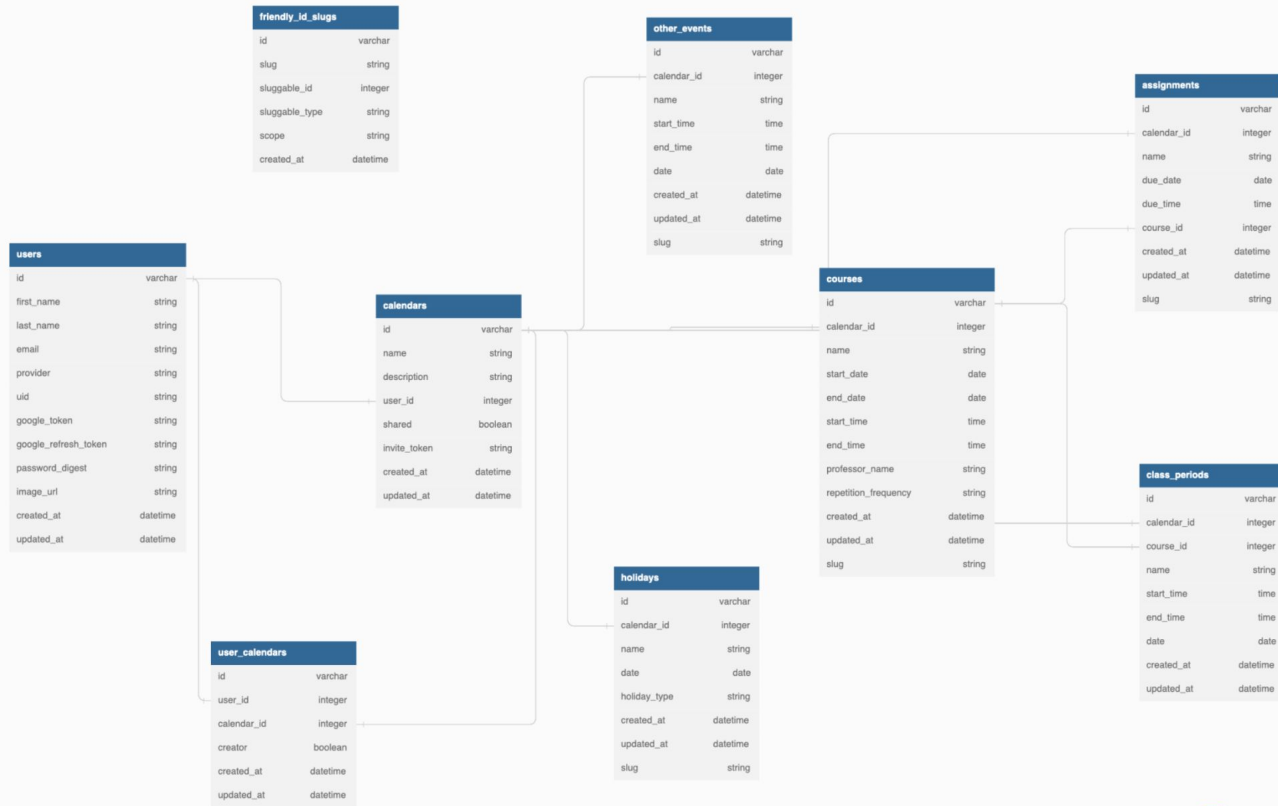


# Solution

- One system, one person
- Centralized approach to what you need to do and when it needs to be done by, incorporated with a larger schedule
- [Live Demo](#)

# Unique Gems/Libraries Used

- roo & roo-xls
  - Support information extraction from excel files
- friendly-id
  - Customize the url by replacing default id with target content
- omniauth\_google\_oauth2
  - Support google login authentication and user information retrieval
- devise\_invitable
  - Calendar encryption via tokens
  - Calendar Sharing with token links



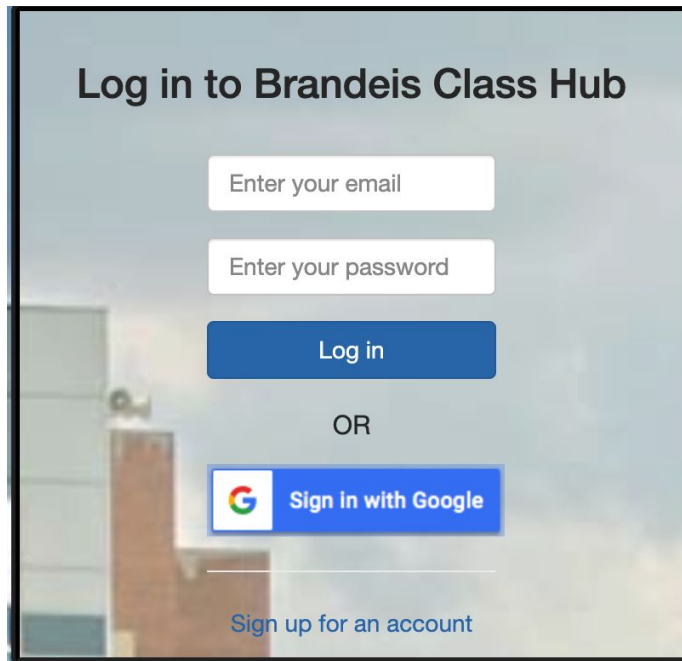
# Our Schema

# Challenges and Solutions

- Sign-up & Log-in
  - Incorporating an established procedure for setting up sign-ins into our schema
  - Ironing out bugs resulting from incorporation & database issues

# Challenges and Solutions

Support google login




**Log in to Brandeis Class Hub**

Enter your email

Enter your password

Log in

OR

 Sign in with Google

---

[Sign up for an account](#)

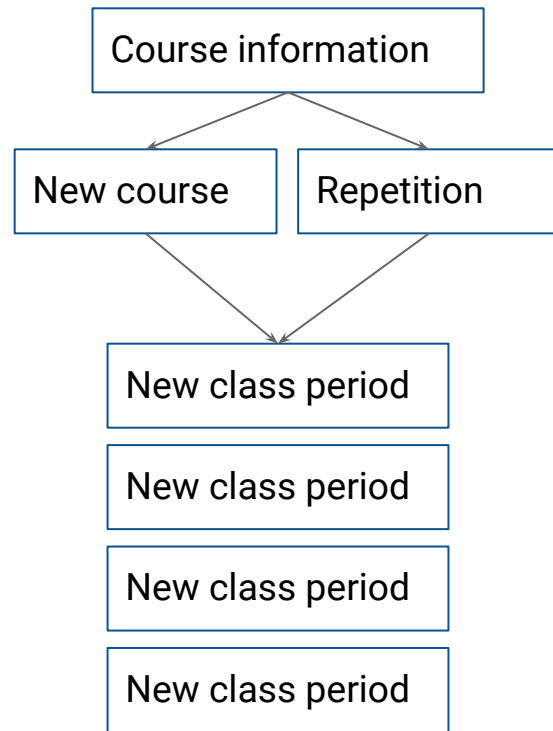


# Challenges and Solutions

Import excel file and generate course automatically

Meeting Patterns
M/W   4:05 PM - 5:25 PM

14 COSI 119A - Autonomous Robotics	15	16 COSI 119A - Autonomous Robotics
21 COSI 119A - Autonomous Robotics	22	23 COSI 119A - Autonomous Robotics



# Challenges and Solutions

Recurring class period based on course

- How would we auto-generate a database table?
- Figure out which days to add and which to ignore

```
initial_days.each do |day_of_week|
  current = day_of_week
  while (current <= end_date)
    params = {name: name, course_id: id,
              start_time: start_time, end_time: end_time,
              date: current, calendar_id: calendar_id}
    ClassPeriod.create(params)
    current = current + 7
    all_params.push(params);
  end
end
```

# Challenges and Solutions

- Creating a calendar view that works for any month
- How to generate a calendar with multiple views
- Remember current day despite stateless HTTP

```
<%= render 'week_titles' %>
<% month.load_month(current_user[:id]).each do |week| %>
|   <%= render 'week', :week => week %>
<% end %>
```

Day View

Week View

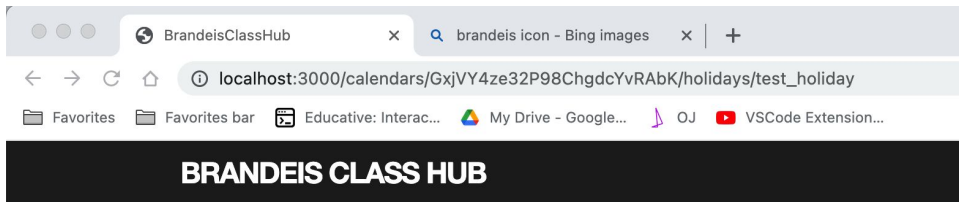
Month View

# Challenges and Solutions

- Calendar Sharing
  - How can I create a safe link?
- Public Calendar Subscription
  - How to create a search function?
- Viewing Calendars/Events
  - How to centralize them in one table?
  - Creator/Subscriber Views

# Challenges and Solutions

Improve data access privacy by support URL embedding



Previous:

*localhost:3000/holidays/1*

Current:

*localhost:3000/calendars/encrypted\_calendar\_token/holidays/holiday\_name*

# Future Development

- UI upgrades
- A way to more easily view all the tasks you need to do
- Email alert (e.g., new assignment published)
- Extra Brandeis functionality

# Takeaways

- Teamwork & Collaboration
  - Specifically group work - Sharing a project and ensuring everyone knows what's going on
- Experience of Building a Large Project From Nothing
- Challenging Our Current Skills By Presenting a Few Unique Issues:
  - Signing into an account/general account management
  - Focusing on design & bootstrap
  - Working for both function and understandability