What is Semester.ly?
The Problem
The Problem

- Advising is time-consuming for both students and advisors
  - 80% of students have some significant issue with the advising process

- Student’s aren’t receiving the support they need
  - 40% of students state that their advisors don’t give them helpful advice or information
Our Findings - From Students

- Semester.ly can help streamline the advising process
  - 91.3% of students stated that they would like to easily share their schedules with their advisors via Semester.ly
  - 96% of students stated that they would like some type of degree planning feature on Semester.ly
  - 70% of students stated that they would like a chat or comment system with their advisors on Semester.ly
Our Findings - From Advisors

- “Students are not always proactive in lining up their course choices, or tracking their progress”

- “Students change their course selections after their advising meeting and don’t check with their advisor to make sure their new courses meet their requirements”

- “[Planning with] the advising spreadsheet and a lot of emails is very cumbersome”
The Solution
## Four Year Plan

### Year 1
- **Fall 2019**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Fall 2020**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Spring 2020**
  - AS 050.336 (61) Neuroscience
- **Interession 2020**
  - AS 050.236 (61) Neuroscience

### Year 2
- **Fall 2021**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Fall 2022**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Spring 2022**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Interession 2021**
  - AS 050.236 (61) Neuroscience

### Year 3
- **Fall 2023**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Spring 2023**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience

### Year 4
- **Fall 2024**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience
- **Spring 2024**
  - AS 050.336 (61) Neuroscience
  - AS 050.236 (61) Neuroscience

### Planned Four Year Summary

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<tr>
<th>Subject</th>
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<td><strong>Total Credits</strong></td>
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*Click into me to see the other views!*
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</tbody>
</table>
## Course Planning
### Computer Science

#### Distribution Requirements (KSAS)
- Humanities: 9.0/9.0
- Social Science: 6.0/9.0
- NS/Q/E: 9.0/9.0

#### Degree Requirements
- Computer Science: 14.0/32.0
  - Gateway Computing: JAVA: 3.0
  - Intermediate Programming: 4.0
  - Data Structures: 4.0
  - CSF: 3.0
The Minimum Viable Product

- **MVP Mock Up**
  (refer to other presentation slides on website)
Backend Design
API Design

- Have to pass the SIS ID in the HTTP request and get the information from there.
  - student info
  - non-primary major(s)
  - minor(s)
  - advisors’ info
  - all courses (including current and previous courses)

- It took a few iterations, but we finally arrived on this
  - Sample Student API Layout
Chat Feature

- Place for students and advisors to make comments on semester plans
  - Each semester plan has own unique chat transcript
- Chat App in Django Backend consists of:
  - Message Models
  - Message Serializers
  - Room Models
- Messages will be stored in PostgreSQL
- Originally wanted to use websockets, but now plan to do with models
Current Progress...
Chat Feature

- Rough flowchart for how the messaging system will work:
  - When someone sends a message, it needs to go to 2 places:
    - Backend for storage
    - Frontend for display
Issues so far...

- JHU Authentication
- Django 1.9.2
- Python 2.7
- Microsoft-Django-Auth 2.3.1
- Python-Social-Auth 0.2.19
  - Social-Core 3.4.0
- Was it necessary?
What’s Next?

- Get **Frontend** components ready
- Get **Chat Feature** working
- Get **SIS course data** displaying
- Finalize **JHED Authentication**
- Finalize **Notifications System** (i.e. emails and in-app)

- We still have many questions we need to answer
  - Ex. - How to differentiate signing up for Advisors vs. Students?