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# App4App2Grad

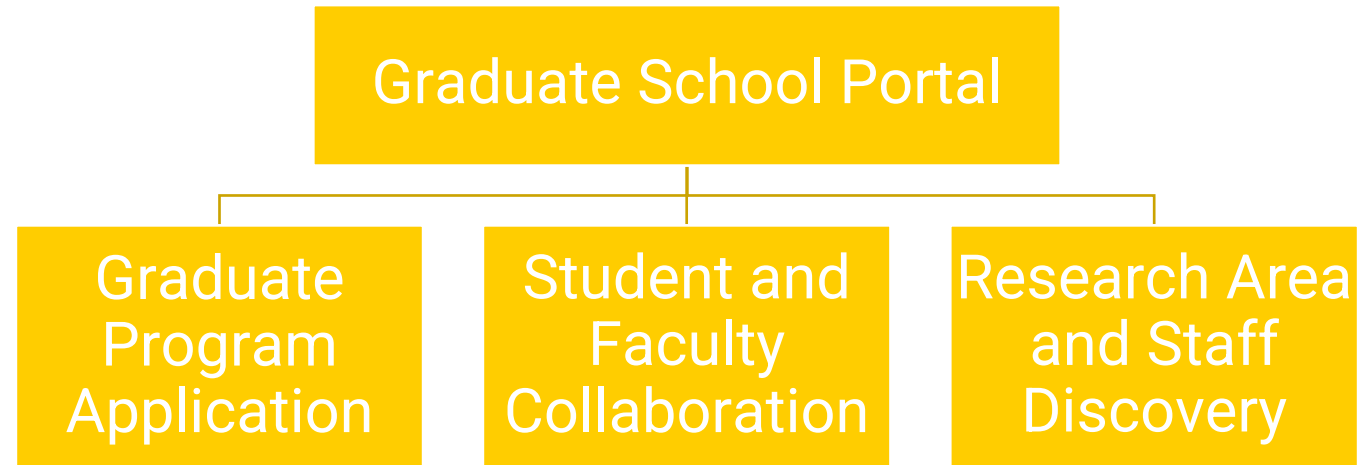
## Team 04

Lucas Ausberger, Austin Beschen, Brandon Egger, Evan Lemker, Jack Stockley

December 13th, 2022

# Our Goals

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# Sprint 1

- Home Page
- FAQ Page
- Account Registration
- Discussions

### Graduate Programs

#### Student Discussion Posts

Title	Body	Author	View Replies
What's the best Graduate Program?	Hey guys, I'm having a hard time picking a graduate program.	Jack Stockley	<a href="#">View Replies</a> <a href="#">Edit</a> <a href="#">Delete</a>
Contact Faculty	Hello, what's the best way to contact a faculty member?	Joe Smith	<a href="#">View Replies</a> <a href="#">Edit</a> <a href="#">Delete</a>
Submit Application	How do I submit an application here?	Hans Johnson	<a href="#">View Replies</a> <a href="#">Edit</a> <a href="#">Delete</a>
Help me!!!	Is University of Iowa a good school?	Elon Musky	<a href="#">View Replies</a> <a href="#">Edit</a> <a href="#">Delete</a>

[Post new Discussion](#)

### Graduate Programs

[My Applications](#) [Profile](#) [Discussions](#) [FAQ](#) [Log In](#) [Register](#)

### Graduate Programs

#### Create Account

First Name

Last Name

Email

Password

Confirm Password

I am a

Student

▼

Register

[Return to Home Page](#)

[Find Programs](#)

Dont know what program you are interested in?  
Click here to find information about all our programs!

[Search Universities](#)

Wondering what the stats are for a specific university?  
Click here to search for any university in the country!

[Discover Faculty](#)

Wondering what faculty our University has to support you in your Graduate program?  
Wondering what topic areas we cover?  
Click here and search for you favorite topic area to see if we have any faculty members you can contact!

### Graduate Programs

#### All Open Applications

Name	GPA	Status	More Info
Brandon Egger	0.975	submitted	<a href="#">View Application</a>

# Sprint 2

- Secure Login
- Student Checklist
- Messaging
- Submit Application
- Uploading Documents

Personal Details

First Name: Last Name: Date of Birth: 2022 December 11

Contact Details

Email: Phone:

Education

Entry

School: Currently Attending? start: 2022 December 11 end: 2022 December 11 Degree: associate Major: GPA: Remove add more

Documents

Entry

Attach Document: Choose File No file chosen Description: Remove add more

Submit

## Profile

First name: John  
Last name: Doe  
Email: jdoe@gmail.com  
[Log out](#)  
[Return to Home Page](#)

## Brandon Egger's Application

### Personal Details

- Full Name: Brandon Egger
- Date of Birth: 01/01/-4712

### Contact Details

- Phone: 3196408865
- Email: beggr@uiowa.edu

### Scores

- Average GPA (on a 4.0 scale): 0

### Status

submitted

## Log In

Email Password Log in  
[Forgot your password?](#)  
Don't have an account? [Sign up](#)  
[Return to Home Page](#)

## Student Checklist for John Doe

Item	Completed
Citizenship	<input checked="" type="checkbox"/>
Research Area	<input type="checkbox"/>
Degree Objective	<input type="checkbox"/>
Undergraduate Institution	<input type="checkbox"/>
Undergraduate GPA Area	<input type="checkbox"/>
Undergraduate Degree	<input type="checkbox"/>
Undergraduate Major Area	<input checked="" type="checkbox"/>
Undergraduate Transcript	<input type="checkbox"/>
Graduate Institution	<input type="checkbox"/>
Graduate GPA	<input type="checkbox"/>
Graduate Degree	<input type="checkbox"/>
Graduate Major	<input type="checkbox"/>
Graduate Transcript	<input type="checkbox"/>
Letter of Recommendation(s)	<input checked="" type="checkbox"/>
Language Score(s)	<input type="checkbox"/>
Resume	<input type="checkbox"/>
Statement of Propose	<input checked="" type="checkbox"/>
Update Checklist	

## My Messages

Sender: jdoe@gmail.com

Subject: Hello

Body: Hi. Hey.

Reply

Sender: jadoe@gmail.com

Subject: New Program

Body: Hello, I was reaching out to you to see if you are interested in our new Graduate program that we have created. Its for new students looking to do Machine Learning. Please reply if you are interested and want to learn more.

Reply

# Sprint 3

- Research Area Discovery
- Faculty Discovery
- Adaptive Navbar
- Evaluating Applications
- Message Replies

### Reply To Message

**Sender:** kweimer@uiowa.edu  
**Subject:** Final Project Grading  
**Body:**  
Hello Evan, Would you like to meet around 5pm tonight to discuss grading for the final project? Thanks, Kian

Body

Reply

Go Back

### New Research Area

Title

Summary

Detailed Overview

Add Area

### Personal Details

Full Name: Lucas Ausberger  
Date of Birth: 12/08/1999

### Contact Details

Phone: 5155155151  
Email: lausberger@uiowa.edu

### Scores

Average GPA (on a 4.0 scale): 3.29

### Education History:

School	Degree	Major	GPA (4.0 Scale)	Start Date	End Date	Currently Attending?
University of Iowa	bachelor	Computer Science	3.58	08/24/2018	05/15/2022	false
University of Iowa	graduate	Computer Science	3.0	08/24/2021	05/15/2023	true

### Attached Documents:

Name: 62494A9A-7119-4F8E-8250-ED68560E66BA\_4\_S005\_c.jpeg

Description: a picture of me. [Download](#)

### Status

submitted

Go Back

### EVALUATIONS

Your Evaluation:

Score:

enter any comments here

Create

### College of Engineering Graduate Portal

[Home](#) [FAQ](#) [Discussions](#) [Log In](#) [Register](#)

### Public Homepage

[Find Research Areas](#)

Dont know what program you are interested in?  
Click here to find information about all our programs!

[Discover Faculty](#)

Wondering what faculty our University has to support you in your Graduate program?  
Wondering what topic areas we cover?  
here and search for you favorite topic area to see if we have any faculty members you can contact!

### Contact Us

Office of the Dean  
201 Gilmore Hall  
Phone: 319-335-2143  
Email: gradcoll@uiowa.edu  
Iowa City, IA 52242-1320

# Demo

**College of Engineering Graduate Portal**

[Home](#) | [FAQ](#) | [Documents](#) | [My Applications](#) | [My Dashboard](#) | [My Progress](#) | [My Profile](#) | [Log out](#)

[Application Information](#) | [Track](#) | [Apply](#) | [Help](#)

### All Open Applications

Name	Formal GPA (GPA Entry)	Notes	Next Step
Jeffrey Johnson	3.8	Submitted	<a href="#">View Application</a>

[Create Application](#)

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Iowa City, IA 52242-1320

**Sender:** janrith@gmail.com  
**Subject:** Grad Documents  
**Body:**  
Hello, What documents are required for my graduate application? Thank you, Hans

[Reply](#)

**Sender:** lausberger@uiowa.edu  
**Subject:** Hey guess what?  
**Body:**  
I love you

[Reply](#)

**New Message**

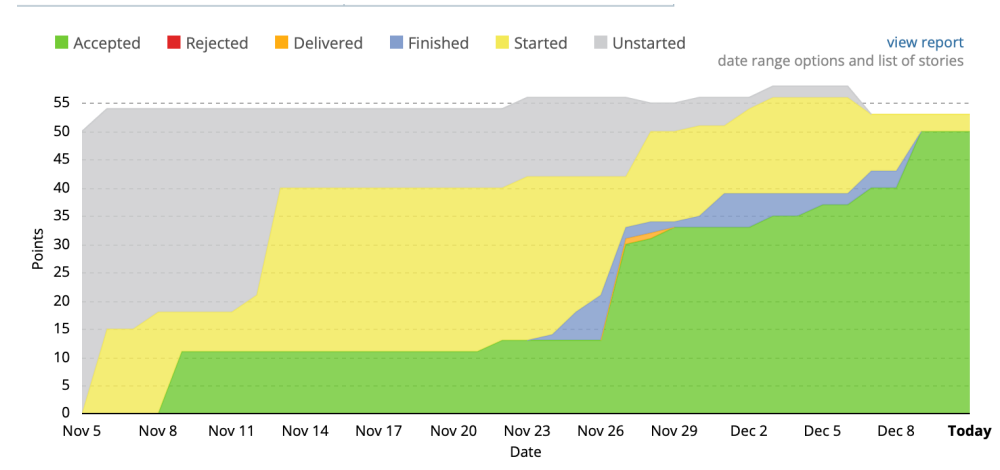
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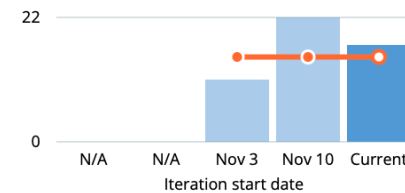
# How We Did It

- Pivotal Tracker
- Meetings
  - Mon, Wed, Fri: 11:15-11:30am
  - Sun: 2:00-3:30pm
- Wiki Pages
- Testing
- Git Procedures
- CI/CD Pipeline



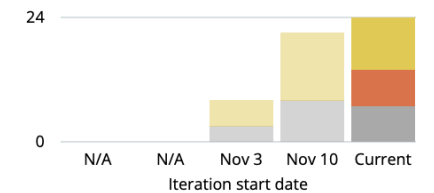
Velocity and points accepted

17 points  
15 pts velocity



Stories accepted

24 stories  
10 features  
7 bugs  
7 chores



# Git Procedures

- GitHub pull request template:
  - Feature details
  - Screenshots
  - Other developer notes
- PR Approval:
  - 2 approved reviews
  - Pipeline jobs succeed
  - No conflicts
- Commit message format:

```
<type>[optional scope]: <description>

[optional body]

[optional footer(s)]
```

brandonegg commented 15 days ago



## User Story/Chore:

As a Student  
So that I can store my information  
I want to add important documents to my application

## Summary of Changes:

- Adds the document model which is stored in SQL db to keep track of file path in GCloud bucket
- graduate application submission now allows user to attach multiple documents and add descriptions to them
- Documents are stored on GCloud

## Place Holders / Noteworthy Mentions:

To enable the google cloud platform functionality on your local environment you will need a rails environment file placed in *project-root-dir/config/local\_env.yml*. The contents of this file should be as follows:

```
GOOGLE_STORAGE_CREDENTIALS: 'path-to-credential.json'
GOOGLE_STORAGE_BUCKET: 'selt-grad-app-student-documents'
GOOGLE_STORAGE_PROJECT: 'selt-grad-app'
```

You'll change these to whatever you choose your project, bucket and location your credential json is stored for google cloud. You'll only need to configure this if you want to test submitting student documents on an application, so most will not need to setup a google cloud account.

	feat: designed page for adding research areas	b48300c
	test: added spec tests around accessing new program page	4db9ed2
	fix: added monkeypatch to spec tests for new program route	fbe362a
	feat: implemented new route research_areas_controller	e524371
	test: added cucumber tests for accessing research areas creation form	7d18ba8



# GitHub Actions Pipeline

## CI/CD

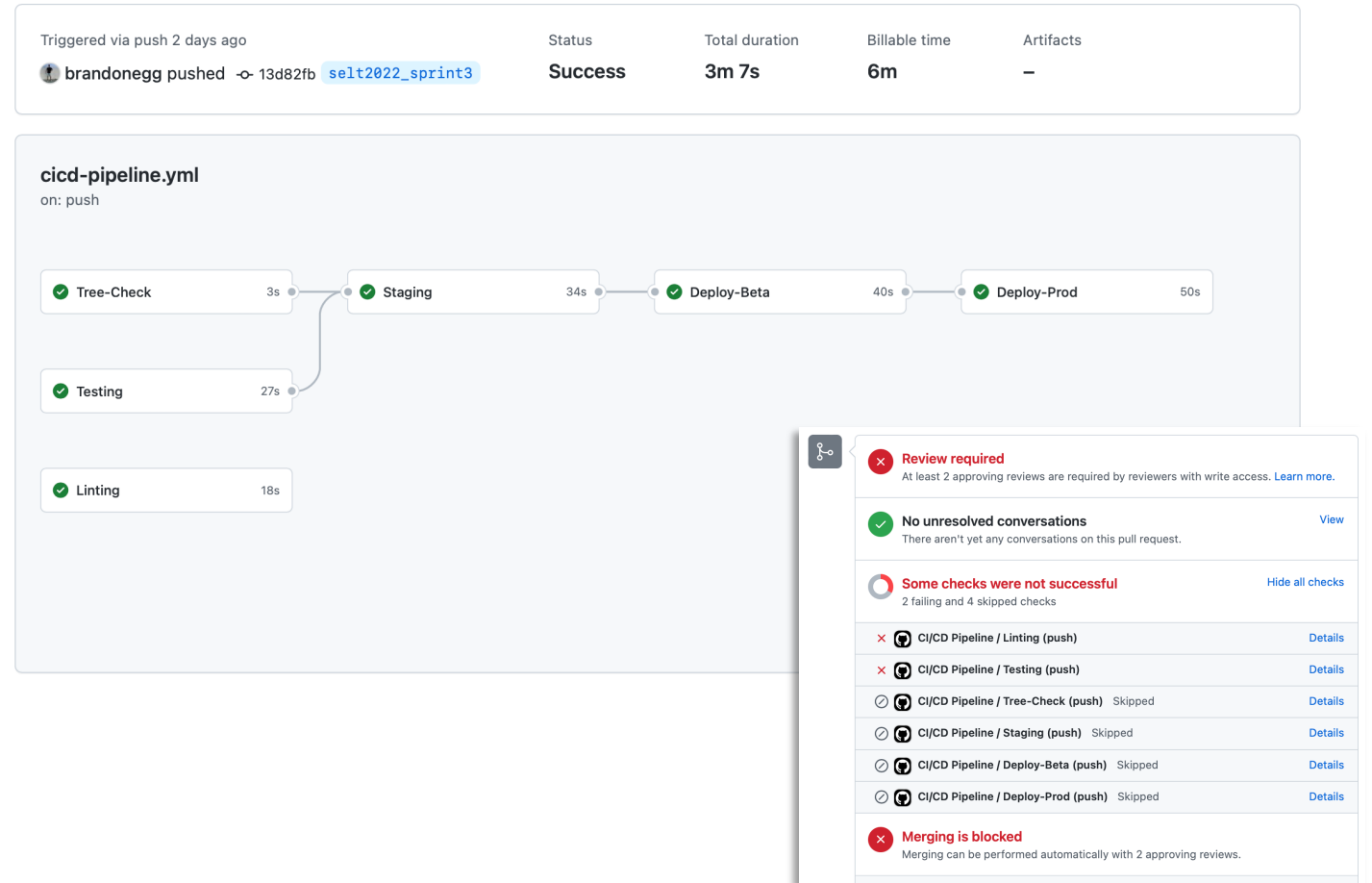
- Any Push -> Local
- Approved PR -> Beta
- Tagged Release -> Prod

## Stages

- Linting
- Spec/Feature Tests
- Local Staging
- Deploy to Beta Site
- Deploy to Prod Site

## Benefits

- Breaking changes never end up in production
- Streamlines reviewing of pull requests
- Developers focus on developing



# Testing

- Each teammate was responsible for their features
- BDD
  - Cucumber
  - Capybara
- TDD
  - Rspec
  - FactoryBot
- Coverage
  - Generated with SimpleCov

```
72 scenarios (72 passed)
401 steps (401 passed)
0m9.479s
```

```
Finished in 6.96 seconds (files took 14.38 seconds to load)
170 examples, 0 failures
```

```
All Files ( 92.46% covered at 8.06 hits/line )
```

```
26 files in total.
```

```
491 relevant lines, 454 lines covered and 37 lines missed. ( 92.46% )
```

```
136 total branches, 113 branches covered and 23 branches missed. ( 83.09% )
```

# Technologies

- Framework
  - Ruby 2.6.6 on Rails 4.2.10
  - Haml
- Google Cloud Storage Gem
  - Student document upload
  - Secret API key stored on Heroku
- JavaScript
  - Enables *has\_many* form creation with *belongs\_to* parent
  - Application educations/documents
- Bcrypt Gem
  - For encrypting passwords stored in database

self-grad-app-student-documents

Location

us (multiple regions in United States)

Storage class

Standard

Public access

Not public

Protection

None

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

NEW

Buckets

>

self-grad-app-student-documents

>

applications

>

documents

UPLOAD FILES

UPLOAD FOLDER

CREATE FOLDER

TRANSFER DATA

MANAGE HOLDS

DOWNLOAD

DELETE

Filter by name prefix only

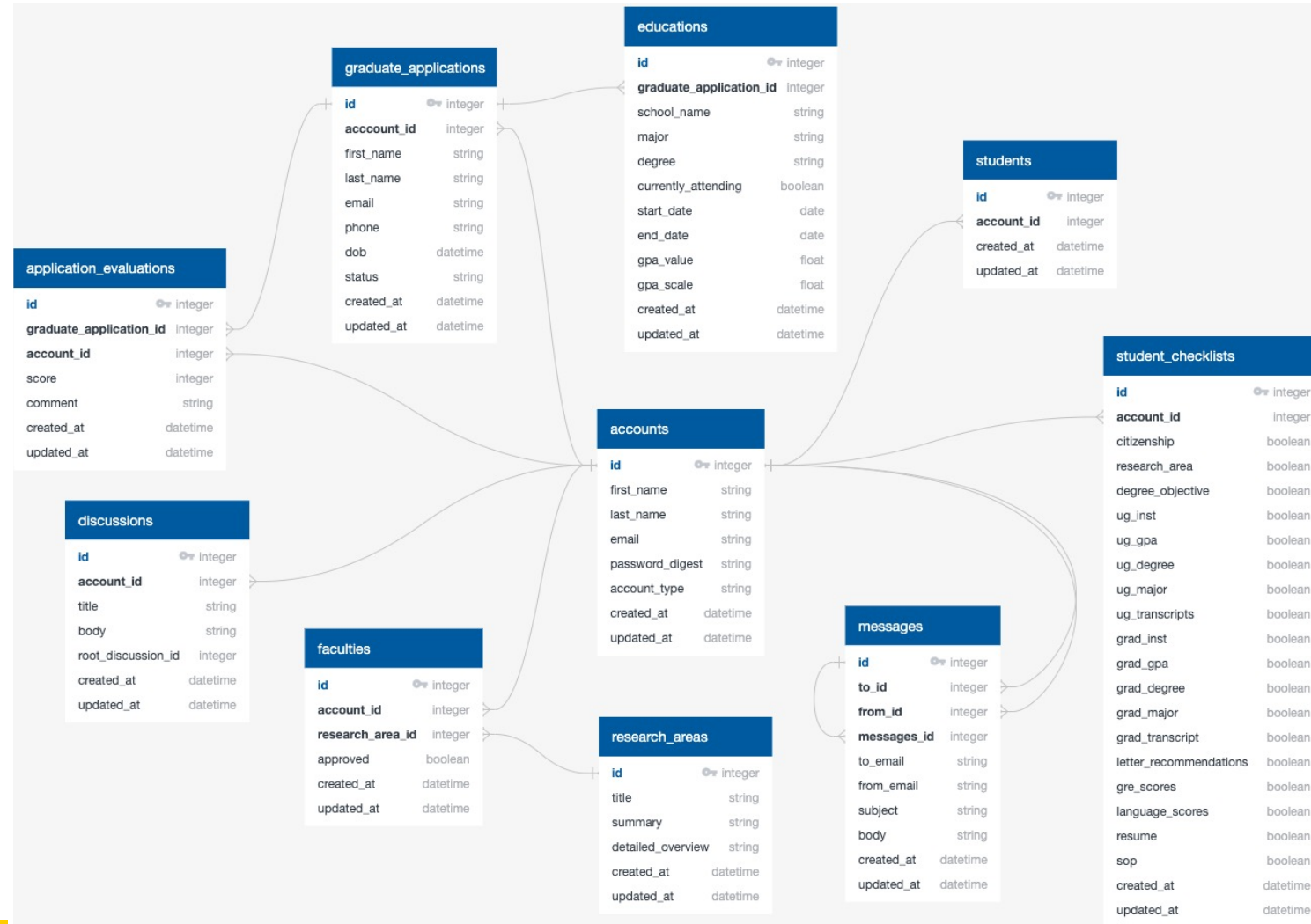
Filter

Filter objects and folders

Show deleted data

<input type="checkbox"/>	Name	Size	Type	Created	Storage class	Last modified	Public access
<input type="checkbox"/>	<a href="#">-1026473269322679306/</a>	—	Folder	—	—	—	—
<input type="checkbox"/>	<a href="#">-1835226331133038741/</a>	—	Folder	—	—	—	—
<input type="checkbox"/>	<a href="#">-210693947137758739/</a>	—	Folder	—	—	—	—
<input type="checkbox"/>	<a href="#">2604872905486634280/</a>	—	Folder	—	—	—	—

# Database Schema Overview



# Lessons Learned

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- Protected main branch and pipeline necessary
- Element ID selectors for resilient Cucumber tests
- Marking features complete when they are complete; not at end of sprint
- Better point estimation for features
- Consider blockers when planning

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# Live Demo

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**Questions?**