



Midterm Review Science Alliance Portal

Nam, Asad, Zeeshan, Elias, Santhosh


Product Vision

- Customer Requirements
- Customer Meetings
- What IBA is like
- Stakeholders' vision





Process Overview

- Version Control: master, sandbox, and feature branches
 - Development Framework
 - Deployment
 - Agile
 - Problems encountered and how we solved
- 

Scrum Meetings & Roles

- Roles
- Frequency/ Rotation
- What was discussed
- Meeting minutes:
 - 4 stand-ups during weekdays
 - 1 back-up meeting on Saturdays

Sprint 1 Overview

In this sprint, we will be setting up our production environment and implementing the admin's signing in functionality along with the Dashboard page

- Product Owner: IBA / Elias
- Scrum Master: Asad Mahmood
- Scribe: Nam Le

2021-03-12 MS Teams

Participation by: Elias, Nam, Asad, Santhosh, Zeeshan

- Agenda:
 - Discuss what we have been doing
- Work Completed
 - Nam: Had some progress on testing the forgot password feature
 - Asad: Looked into edit profile feature
 - Elias: Worked with nam on forgot password feature
 - Santhosh: Brought the site back up
 - Zeeshan: Worked on delete profile feature and done with front-end
- To-Do by Next Scrum Meeting
 - Nam: Working on testing for forgot password feature
 - Asad: Pair program with Zeeshan on delete profile feature
 - Elias: Working on feature testing for forgot password
 - Santhosh: Configure GitHub Actions with the new Azure WebApp
 - Zeeshan: Working on delete profile feature
- Team Tasks:
 - N/A
- When is our next meeting?
 - 2021-03-13

Sprint 2 Overview

In this sprint, we will work on Signup feature (including questionnaire), Forgot Password, View/Delete/Edit Ally profile, Fixing acceptance testing of change username and password. We will also add unit tests for Ally Profile so that they cannot view forbidden pages.

Product Owner: Nam

Scrum Master: Santosh

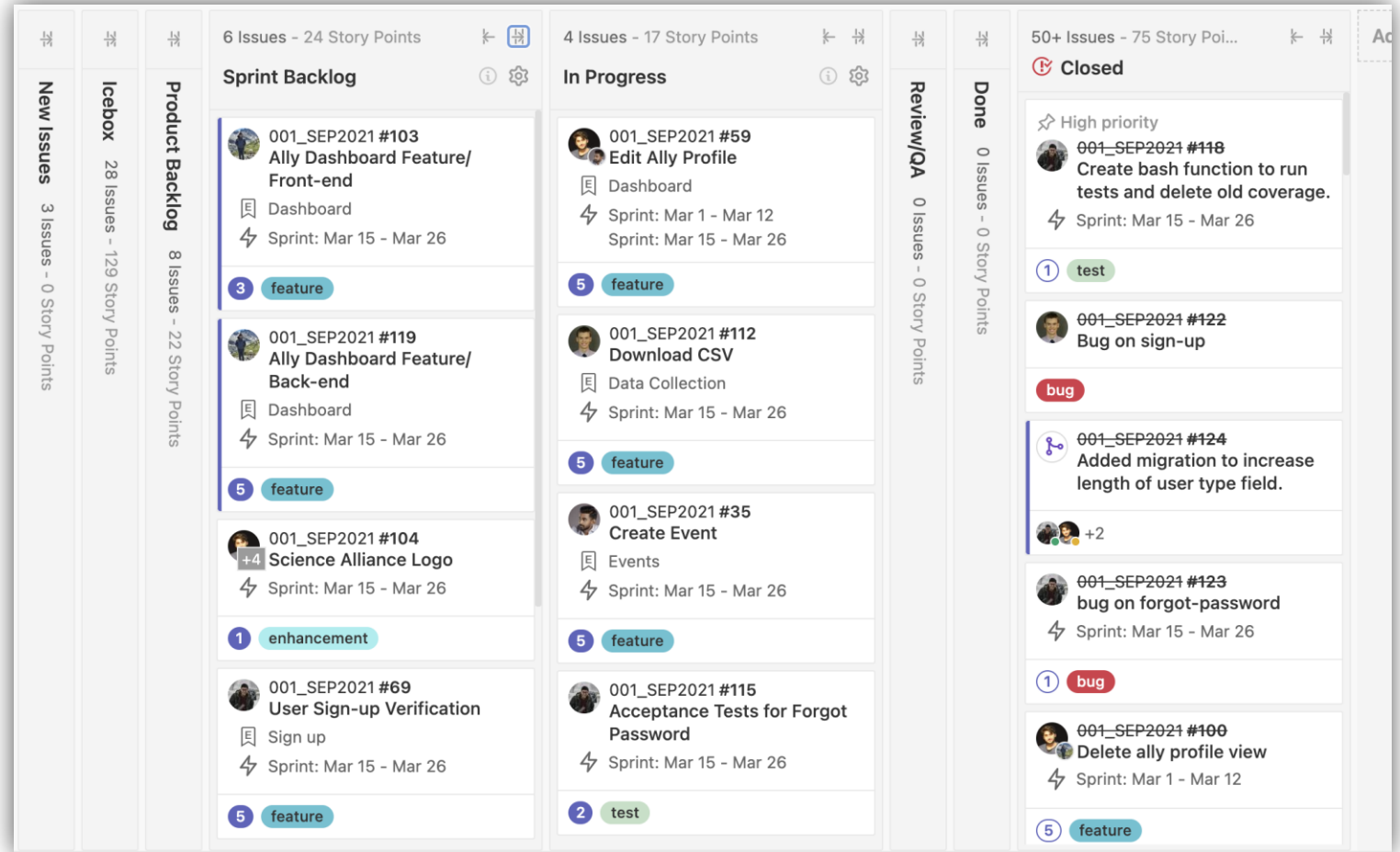
Scribe: Zeeshan

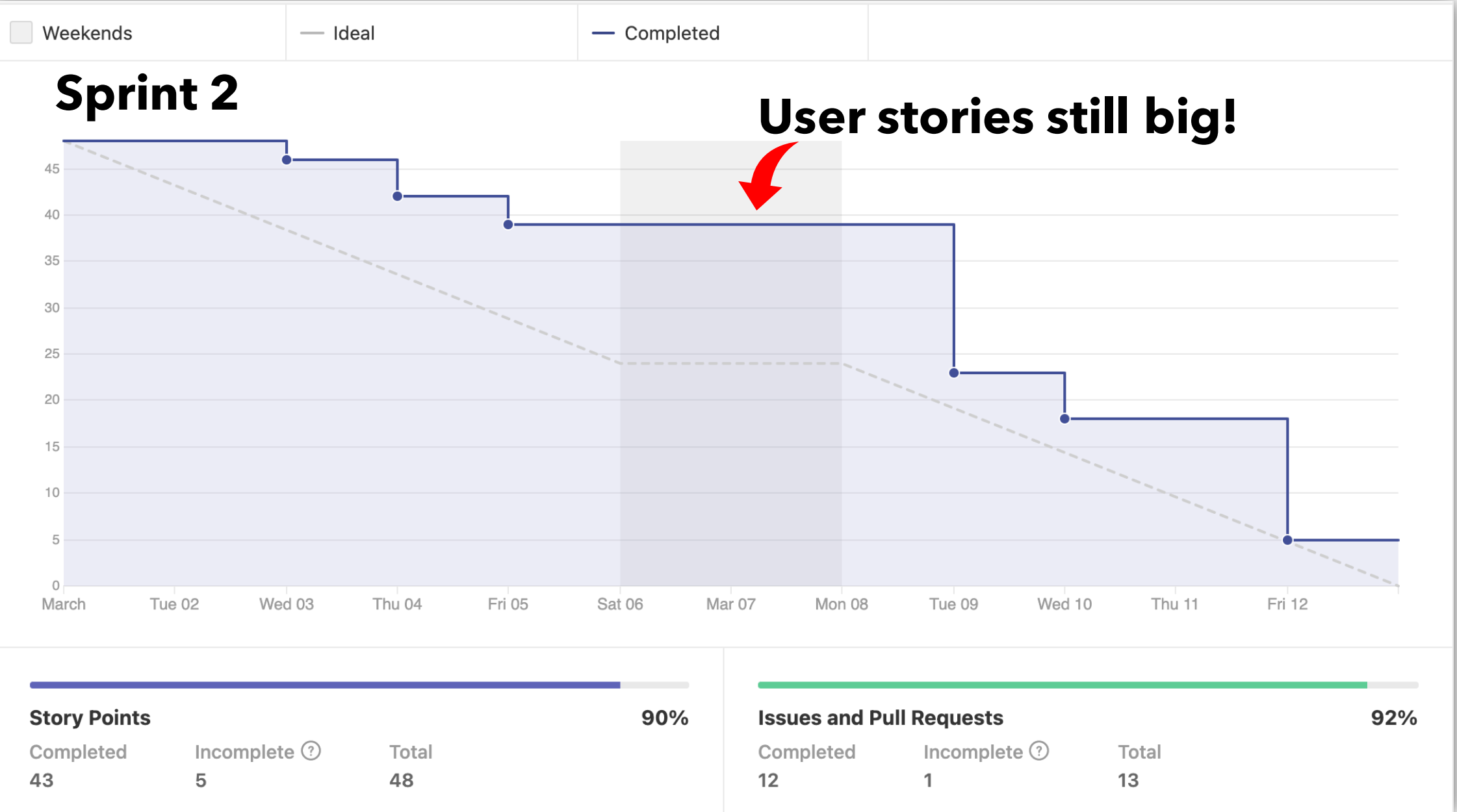
Testing goat: Elias

UI Lead: Asad

Sprint Planning

- Swim lanes
- Metrics – coverage, burndown, velocity
- User Stories






Test Plan

- CI/CD - GitHub Actions
- TDD - pytest
- BDD - pytest-bdd

CI/CD

- Continuous Integration (CI)
 - GitHub action to run tests on every push to sandbox
 - Previously failed due to 'Artifact's storage limit'
- Continuous Deployment (CD)
 - GitHub action to deploy master branch to Azure Cloud.
 - Web app: <https://sep-iba-team1.azurewebsites.net/>



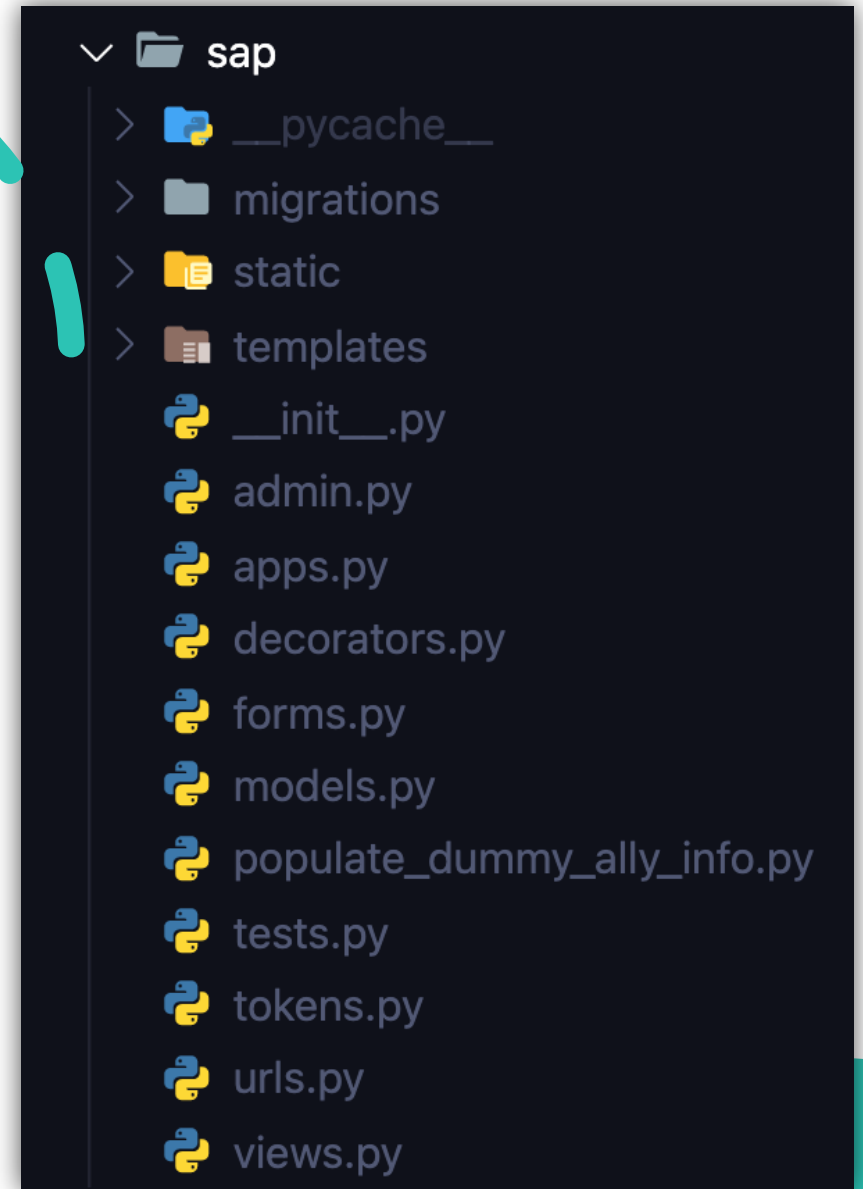
```
build-and-test
failed 3 days ago in 48s

v x Upload artifact for deployment jobs
32 }
33 ##### End Diagnostic HTTP information #####
34 ##### Begin Diagnostic HTTP information #####
35 Status Code: 403
36 Status Message: Forbidden
37 Header Information: {
38   "cache-control": "no-store,no-cache",
39   "pragma": "no-cache",
40   "content-length": "333",
41   "content-type": "application/json; charset=utf-8",
42   "strict-transport-security": "max-age=2592000",
43   "x-tfs-processid": "389909f6-fa12-4822-9532-01018208a1aa",
44   "activityid": "ebe5f5bb-9da5-49ad-b952-57db60c87983",
45   "x-tfs-session": "ebe5f5bb-9da5-49ad-b952-57db60c87983",
46   "x-vss-e2eid": "ebe5f5bb-9da5-49ad-b952-57db60c87983",
47   "x-vss-senderdeploymentid": "ac98198d-4d34-0364-420d-bafa6e51dce2",
48   "x-frame-options": "SAMEORIGIN",
49   "x-msedge-ref": "Ref A: 4E8923D7882447448EF988C9F42CFC4D Ref B: BLUEdge0423 Ref C: 2021-03-15T22:55:09Z",
50   "date": "Mon, 15 Mar 2021 22:55:08 GMT",
51   "connection": "close"
52 }
53 ##### End Diagnostic HTTP information #####
54 Error: Create Artifact Container failed: Artifact storage quota has been hit. Unable to upload any new artifacts

> Post Run actions/checkout@v2
> Complete job
```


Test Driven Development - TDD

- Unit tests using pytest, for all the implemented features
- Files Excluded from Coverage:
 - urls.py
 - admin.py
 - models.py
 - migrations/
 - apps.py
 - settings.py
- Details available at https://github.com/UIOWAjohnsonhj/001_SEP2021/wiki/Files-excluded-from-testing-and-coverage-reports



Coverage Report

- In-accurate coverage report
- Adding tests to cover remaining lines
- **Improvements:**
 - Write tests before feature code
 - Follow Red-Green-Refactor approach

Coverage report: 91%

Module ↑	statements	missing	excluded	coverage
sap/__init__.py	0	0	0	100%
sap/forms.py	14	0	0	100%
sap/tokens.py	11	1	0	91%
sap/urls.py	7	0	0	100%
sap/views.py	284	28	0	90%
Total	316	29	0	91%

coverage.py v5.4, created at 2021-03-18 19:08 +0000

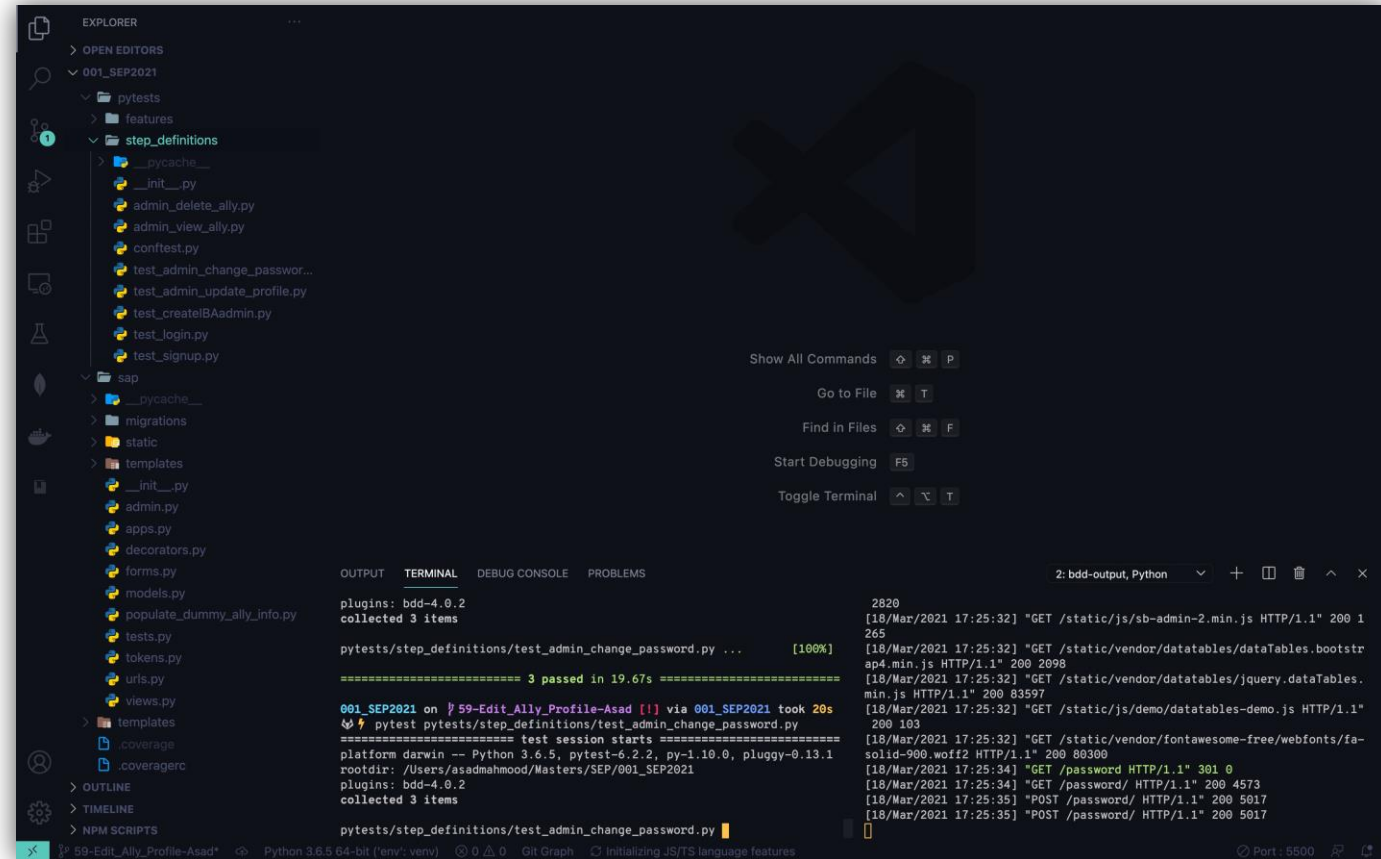
Coverage report: 99%

Module ↑	statements	missing	excluded	coverage
sap/__init__.py	0	0	0	100%
sap/forms.py	6	0	0	100%
sap/urls.py	7	0	0	100%
sap/views.py	196	1	0	99%
Total	209	1	0	99%

coverage.py v5.4, created at 2021-03-18 16:40 +0000

BDD

- Example: Admin Change Password tests
- **Improvements:**
 - Write acceptance tests before feature code
 - Acceptance tests for all features in a sprint



The screenshot shows a VS Code interface with a file explorer on the left and a terminal/output window on the right. The file explorer shows a project structure with folders like 'pytests', 'features', and 'step_definitions'. The terminal window displays the output of a BDD test run, including the command 'pytests/step_definitions/test_admin_change_password.py' and the result '3 passed in 19.67s'. The output also shows the test session starting on '001_SEP2021' and the command 'pytests/step_definitions/test_admin_change_password.py' being executed.

```
plugins: bdd-4.0.2
collected 3 items

pytests/step_definitions/test_admin_change_password.py ... [100%]

===== 3 passed in 19.67s =====

001_SEP2021 on 59-Edit_Ally_Profile-Asad [!] via 001_SEP2021 took 20s
===== test session starts =====
platform darwin -- Python 3.6.5, pytest-6.2.2, py-1.10.0, pluggy-0.13.1
rootdir: /Users/asadmahmood/Masters/SEP/001_SEP2021
plugins: bdd-4.0.2
collected 3 items

pytests/step_definitions/test_admin_change_password.py
```

Documentation

- Wiki
- Code comments
- Commit comments
- Pull requests

```
def test_failure_mismatched_new_pass_change_password(self):  
    """  
    If new passwords don't match, a failed message is displayed  
    """  
    self.user.is_staff = True  
    self.user.save()  
    self.client.login(username=self.username, password=self.password)  
    response = self.client.get(reverse('sap:change_password'))  
    self.assertEqual(response.status_code, HTTPStatus.OK)  
    self.assertContains(  
        response, "Change Password", html=True  
    )  
    data = {
```

▼ Pages 24
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20_SprintOverview
30_SprintOverview
40_SprintOverview
50_SprintOverview
60_SprintOverview
Cost
Customer Notes and Feedback
Deploy to azure manually (Helpful when github auto deployment does not work)
Email Integration with Sendgrid
Feature_template
Setting up dev environment
Setting up Jenkins with Django app deployed on Azure
Sprint1_Retrospective
Sprint2_Retrospective

```
def test_logout_for_admin(self):  
    self.client.login(username=self.username, password=self.password)  
    response = self.client.get(reverse('sap:logout'))  
    self.assertEqual(response.status_code, HTTPStatus.FOUND)  
    self.assertEqual(response.url, '/')
```

Customer Notes and Feedback

Elias Shaeffer edited this page 7 days ago · 17 revisions

Zoom meetings

Another meeting with Laura - Elias, Laura K. - 02/25/21

Spoke with Laura about the program, showed her webpage. She brought up the possibility of using a separate server to store data.

Office hours meetup - Elias, Laura K. - 02/04/21

Talked more about the product and what it would be used for. Turns out, IBA plans on using this partly as a way to recruit people for internships. If we could make a good system to help target people who are 'good candidates,' then it would add a lot of value to the application.

Check in with Laura - Elias, Laura K. - 02/18/21

- Most important aspect of meeting was that Laura heard back from Mark Bennett and it was determined that we would be able to collect all the data we need: race/ethnicity, zipcode, if we received pell grant, gpa, first generation on a form hosted on our website.
- She was wondering about the costs associated with hosting the website, and I was unable to provide a solid answer. Based on this, I will create a new issue called costs that we can use as a way to try and figure out costs associated with our application.
- She was also wondering if anyone at ITS had gotten back to me on the MAUI/ SSO integration. No, they haven't. She said she was planning on sending me a document detailing how to allow for SSO and MAUI integration for dispatch, but I haven't gotten anything from her yet.

Added confirmation dialog when user clicks on delete



zshanahmed committed 4 days ago

Better-documented Pull Request



Purpose

• ...

Does this introduce a breaking change?

☐ Yes
☒ No

Pull Request Type

What kind of change does this Pull Request introduce?
Allows admin to delete a profile from dashboard

☐ Bugfix
☒ Feature
☐ Code style update (formatting, local variables)
☐ Refactoring (no functional changes, no api changes)
☐ Documentation content changes
☐ Other... Please describe:

How to Test

• Get the code

```
git clone https://github.com/UIOWAJohnsonhj/001_SEP2021.git
cd 001_SEP2021
git checkout 100-Delete_Ally_Profile
```

• Test the code

```
python manage.py test
pytest pytests/step_definitions/admin_delete_ally.py
```

generic



Purpose

Add email integration with Sendgrid so emails can be sent automatically to targeted email addresses

Does this introduce a breaking change?

☐ Yes
☒ No

Pull Request Type

What kind of change does this Pull Request introduce?

☐ Bugfix
☒ Feature
☐ Code style update (formatting, local variables)
☐ Refactoring (no functional changes, no api changes)
☐ Documentation content changes
☐ Other... Please describe:

How to Test

git checkout email_integration-nam

- Open `send_email_sample.py`, which locates in project directory. This is the minimal needed code when you need to send an email with a sender's identity, email's title and body.
- In `send_email_sample.py`, change `to_emails=` to your own email address so that you can check whether or not the integration works.
- Run the code without error. Output should be something like this.

```
/user/iibi/nale/PycharmProjects/001_SEP2021/venv/bin/python /user/iibi/nale/PycharmProjects/001_SEP2021/send_email_sample.py
202
b''
Server: nginx
Date: Thu, 04 Mar 2021 22:55:20 GMT
Content-Length: 0
Connection: close
X-Message-Id: TyyS4YRUTFu-9qDQpMV76A
Access-Control-Allow-Origin: https://sendgrid.api-docs.io
Access-Control-Allow-Methods: POST
Access-Control-Allow-Headers: Authorization, Content-Type, On-behalf-of, x-sg-elas-acl
Access-Control-Max-Age: 600
X-No-CORS-Reason: https://sendgrid.com/docs/Classroom/Basics/API/cors.html
Strict-Transport-Security: max-age=600; includeSubDomains

Process finished with exit code 0
```

- Check the inbox of your email address in `to_emails=` to see if you receive the email.
- Test the code

What to Check

Verify that the following are valid

- Email sent successfully

Sprint Retrospective

- What went well
- What did not go well
- What we will start doing
- Problems we encountered

What worked in this sprint

- Elias: Started early on my feature and practiced good TDD & BDD with Zeeshan.
- Nam: Learnt and tried new interesting things, e.g. authentication and token systems of Django. Pair programming with Elias was very helpful.
- Santhosh: Pointed the user stories more appropriately this sprint. The points reflected the complexity of sprint 2 stories relatively better than sprint 1
- Asad: Was able to complete Unit and Acceptance tests for all completed features.
- Zeeshan: Adjusted points in a better way and practiced good TDD & BDD which helped in implementing the features easier than before

What did not work in this sprint

- Elias: Some features were without proper testing at the end. We chose too many stories, and were not able to complete them all.
- Nam: It took me so much time for my feature that I couldn't finish the BDD tests for my user stories before sprint ended.
- Santhosh: Didn't know how Jenkins operates. Should have backed out from Jenkins implementation a bit early. Realized that it's a bit of an overkill only after integrating it for CI CD. Ideal scenario would have been to realize this before starting to work on anything
- Asad: Choose too many stories. Still in the process of locking down our sprint velocity.
- Zeeshan: The feature had some bugs implying we missed some important cases in the test. Didn't do a good job in exploring the sad paths

What we will start doing

- Elias: Lower number of points chosen for each sprint, and try to break down stories even further if possible.
- Nam: More pair programming, ask questions early, and avoid being stuck to one problem for so long.
- Santhosh: Need to be a bit more practical when pulling stories into the sprint backlog. May 30-35 points would be ideal for each sprint. Felt we added a lot of stories and we had to put into a LOT of effort to get the stories done
- Asad: Adjust story points somewhere between those of Sprint 1 and 2.
- Zeeshan: More focused towards testing and covering sad paths. Also we need to break down big stories into smaller ones to have a steady progress



Questions



Works Cited

- <https://www.teachforamerica.org/stories/tips-on-how-to-host-your-first-community-meeting>
 - <https://webstockreview.net/explore/vision-clipart-corporate-vision/>
- 