

PhD Annual Review System Iteration 2

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Stakeholders: This system will be used by the cse department to evaluate the reports submitted by PhD students. This system will be used by faculty members and students where faculty members can view the reports and submit their comments about the report. The student can submit their documents for the faculty members to review.

Recurring Client Meeting Time
- Every Wednesday at 2 pm

Customer Meeting Date and time: Oct 11, 2023 2:00 PM

Meeting place: Peterson 408

Client feedback:

1. Client has asked us to make some changes in the document submission page such as drop down to select year → This is already done in this iteration itself
2. Check boxes for milestone passed
3. If performance is unsatisfactory then give a text box for improvement plan or else don't show it
4. Yes or No checkbox for support in last semester
5. Report submission option to upload the report file → This is also done in this iteration.

Remaining item and feature enhancement will be done in the next iteration.

User Stories Implemented:

1) Student Document Submission Page

As a student, when I login into the system, I want to fill out a mandatory form and the student should also be able to submit his Ph.D. report and his resume which can be later reviewed by the committee members. This story had a lot of sub-tasks such as creating tables for student documents, creating correct association between tables and defining correct foreign key constraints, writing backend code for documents submission, writing backend code to connect to S3, writing backend code to create form with validation, creating the front-end for document submission page.

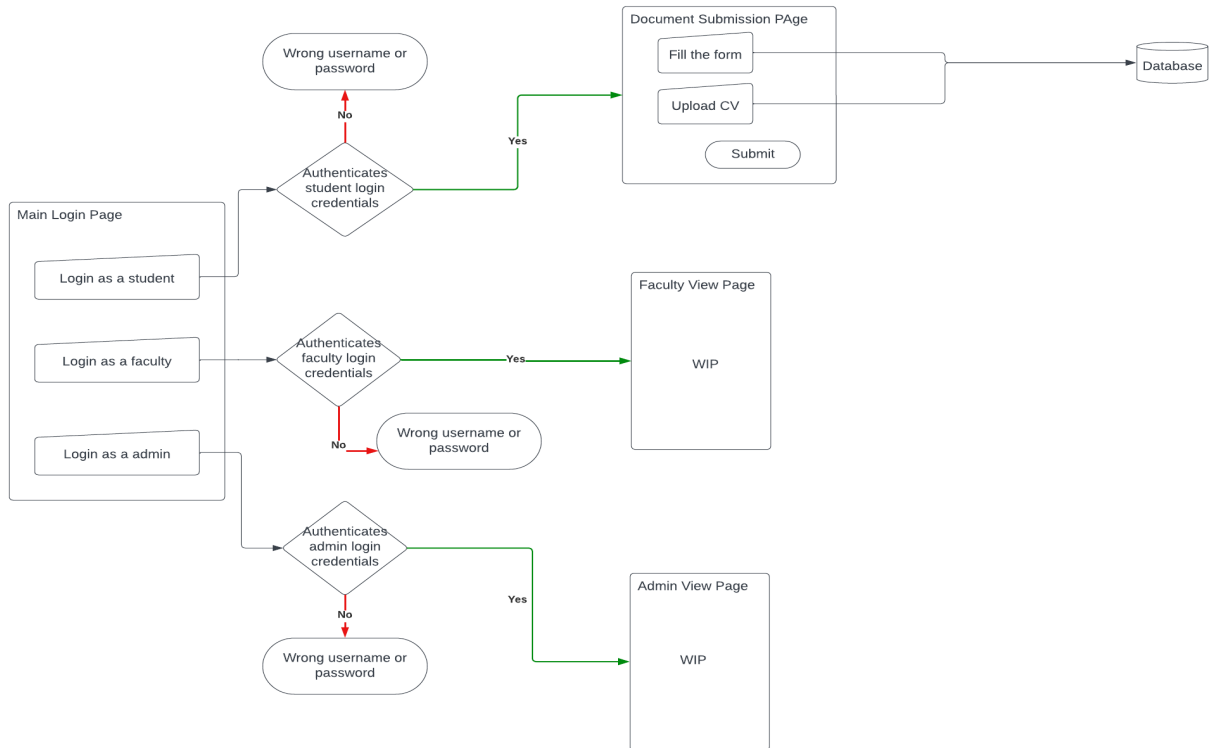
2) Student can select his own faculty member

As a student user with an account on the Ph.D. Annual Review System

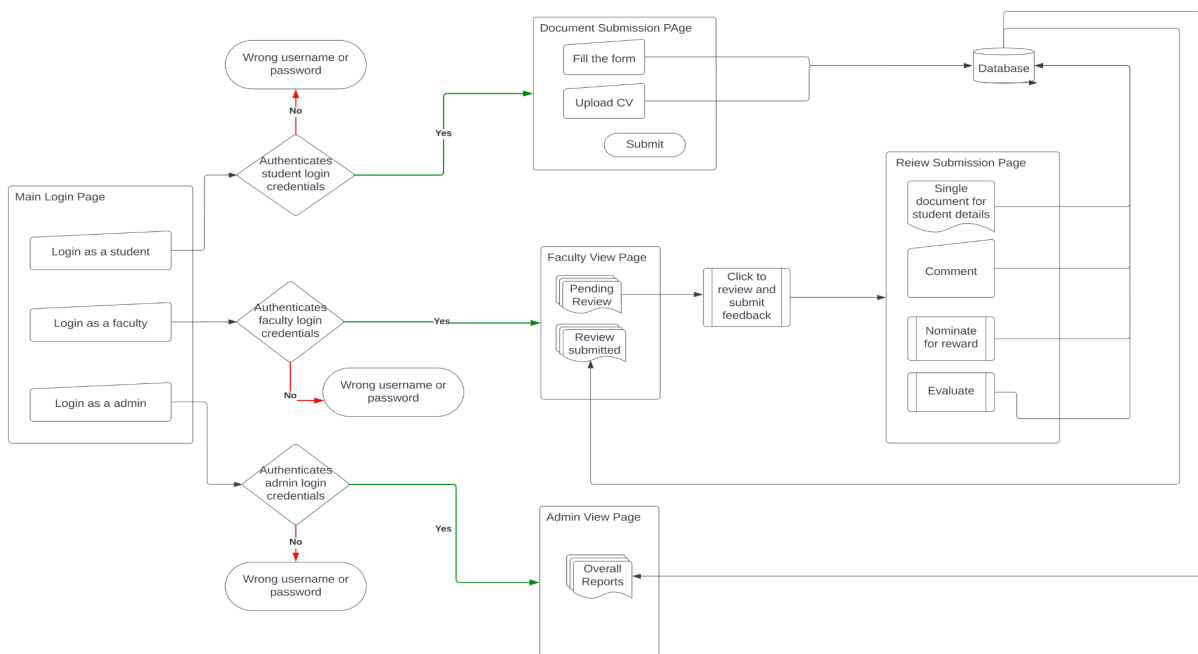
So that my committee can view my document submission

I want to submit my committee to the system to be stored in the database. The coding is completed for this user story but we decided not to deploy this story in this iteration as testing wasn't completed for this story. This story will be deployed in the next iteration. Attaching screenshot below for this story.

Design Diagram of Current Implementation:



Design Diagram of Target Implementation:



Changes made to the UI

Submit Documents

localhost:3000/student_documents

Incognito (2) Relaunch to update

Submit Documents

First name	<input type="text" value="harshTest"/>
Last name	<input type="text" value="Test"/>
Uin	<input type="text" value="1234567"/>
Email	<input type="text" value="harshTest@tamu.edu"/>
Phd start date	<input type="text" value="Select a date"/>
Milestones passed	<input type="text"/>
Improvement plan present	<input type="text"/>
Improvement plan summary	<input type="text"/>
Gpa	<input type="text"/>
Support in last sem	<input type="text"/>
Number of paper submissions	<input type="text"/>
Number of papers published	<input type="text"/>

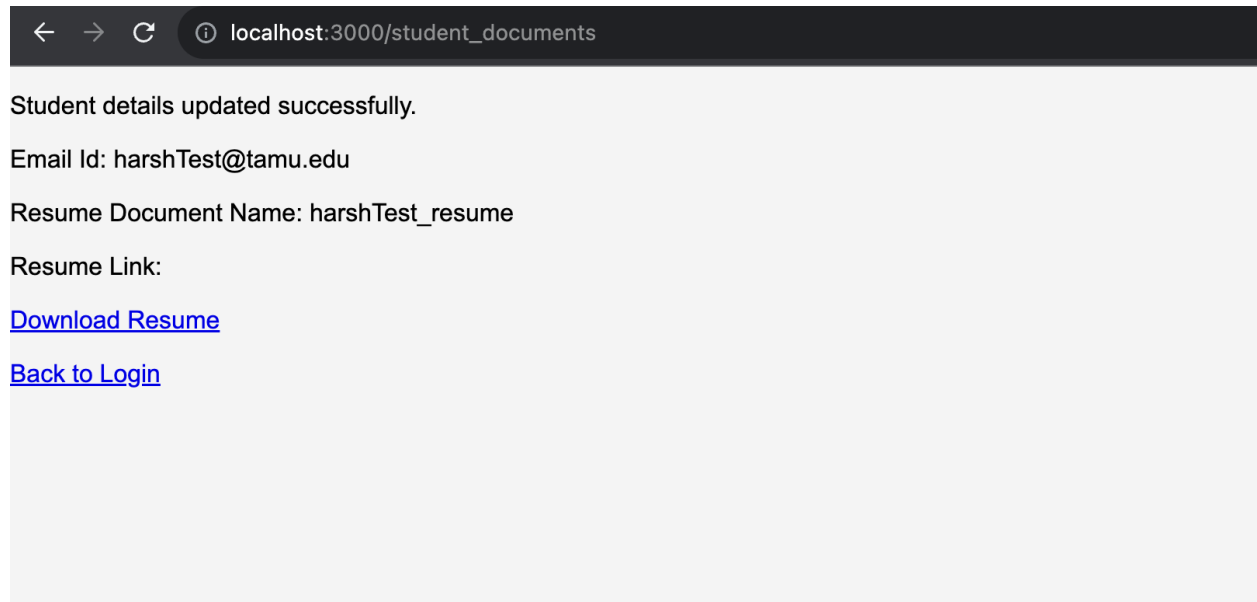
Support in last sem	<input type="text"/>
Number of paper submissions	<input type="text"/>
Number of papers published	<input type="text"/>

Resume

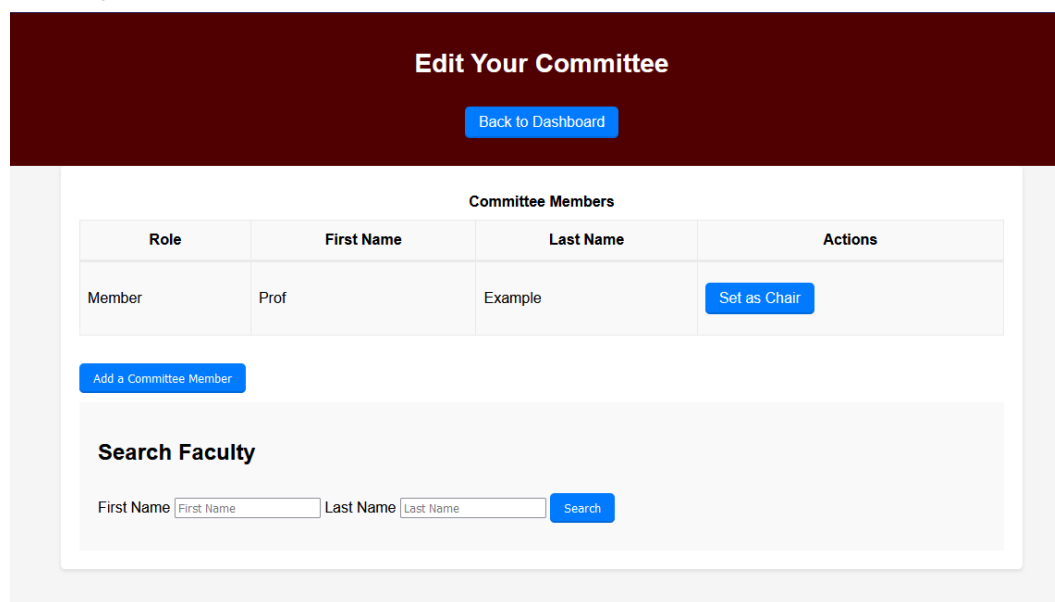
No file chosen

Report

No file chosen



Screenshot of Committee Selection by student (This feature will be deployed in next iteration as testing is pending for this feature)



Search Faculty for Committee

Search Results

First Name	Last Name	Email	Action
Prof	Example	profexample@tamu.edu	Add to Committee

Edit Your Committee

[Back to Dashboard](#)

Prof Example is now set as the committee chair.

Committee Members

Role	First Name	Last Name	Actions
Chair	Prof	Example	Return to Member
Member	John	Doe	

[Add a Committee Member](#)

Edit Your Committee

[Back to Dashboard](#)

Committee Members

Role	First Name	Last Name	Actions
Member	Prof	Example	Set as Chair

[Add a Committee Member](#)

Changes made to the initial design

- Moving from postgres to S3 to store resume and cv
 - At the outset of this iteration, we intended to store the document that has to be submitted by the student in postgres but we realized that if we store the documents in postgres we will have performance overhead and also it was increasing the complexity. To solve this problem we decided to store the documents in S3 and in postgres we are just storing the path in which the documents are stored on S3 bucket.

User stories not completed in this iteration

- Creating a dashboard for the faculty
 - We planned to create a dashboard for the faculty members when they login into the system, they should be able to see the students for whom they need to submit their review. We dedicated a lot of our time in finalizing the schema for the table and changing our datastore from postgres to S3 for document storage. Although doing this made us realize that designing takes time and we should give more time to this as last minutes changes to design take up a lot of time as we need to make a lot of code changes and test the functionality again
 - We just finished designing the database schema and creating association among tables for this story. We will start working on this story from the next iteration.
- Committee selection by student
 - We have finished the front-end and back-end for this feature but we still have to write the test cases for this feature, so we decided not to deploy this feature as it may break our existing feature. Attached the screenshot for the UI that was created for this feature, will deploy in next iteration.

Code and Test Evaluation

Cucumber tests:

Cucumber Reports




reports.cucumber.io/reports/708ec62d-e836-4fb3-a1d1-4fb406b3fcece

Incognito (2) Relaunch to update


Cucumber Reports Log in with GitHub


This report will self-destruct in a day. Keep your future reports forever.


18 PASSED


100% passed 18 executed	a few seconds ago Last Run	0.62 seconds Duration
 darwin22	 ruby 3.2.2	 cucumber-ruby 8.0.0


Delete Report

>  features/admin_login.feature

>  features/faculty_login.feature

>  features/student_document.feature

>  features/student_login.feature

>  features/student_signup.feature

```
And I fill in "password" with "password" # features/step_definitions/student_steps.rb:20
And I fill in "confirm_password" with "password" # features/step_definitions/student_steps.rb:20
And I submit form # features/step_definitions/student_steps.rb:28
Then I should see "prohibited this student from being saved" # features/step_definitions/student_steps.rb:24

Scenario: Signing up with partial email # features/student_signup.feature:25
  Given I am on the sign up page # features/step_definitions/student_steps.rb:3
  When I fill in "first_name" with "John" # features/step_definitions/student_steps.rb:20
  And I fill in "UIN" with "12345" # features/step_definitions/student_steps.rb:20
  And I fill in "email_id" with "john@tamu.com" # features/step_definitions/student_steps.rb:20
  And I fill in "password" with "password" # features/step_definitions/student_steps.rb:20
  And I fill in "confirm_password" with "password" # features/step_definitions/student_steps.rb:20
  And I submit form # features/step_definitions/student_steps.rb:28
  Then I should see "prohibited this student from being saved" # features/step_definitions/student_steps.rb:24

Scenario: Signing up with a duplicate Email ID # features/student_signup.feature:35
  Given a student with the email ID "john@tamu.edu" already exists # features/step_definitions/student_steps.rb:12
  When I am on the sign up page # features/step_definitions/student_steps.rb:3
  And I fill in "first_name" with "John" # features/step_definitions/student_steps.rb:20
  And I fill in "last_name" with "Doe" # features/step_definitions/student_steps.rb:20
  And I fill in "UIN" with "12345" # features/step_definitions/student_steps.rb:20
  And I fill in "email_id" with "john@tamu.edu" # features/step_definitions/student_steps.rb:20
  And I fill in "password" with "password" # features/step_definitions/student_steps.rb:20
  And I fill in "confirm_password" with "password" # features/step_definitions/student_steps.rb:20
  And I submit form # features/step_definitions/student_steps.rb:28
  Then I should see "prohibited this student from being saved" # features/step_definitions/student_steps.rb:24

Scenario: Password length less than 8 # features/student_signup.feature:47
  Given I am on the sign up page # features/step_definitions/student_steps.rb:3
  When I fill in "first_name" with "John" # features/step_definitions/student_steps.rb:20
  And I fill in "UIN" with "12345" # features/step_definitions/student_steps.rb:20
  And I fill in "email_id" with "john@tamu.com" # features/step_definitions/student_steps.rb:20
  And I fill in "password" with "password" # features/step_definitions/student_steps.rb:20
  And I fill in "confirm_password" with "short" # features/step_definitions/student_steps.rb:20
  And I submit form # features/step_definitions/student_steps.rb:28
  Then I should see "prohibited this student from being saved" # features/step_definitions/student_steps.rb:24

Scenario: Signing up with valid information # features/student_signup.feature:57
  Given I am on the sign up page # features/step_definitions/student_steps.rb:3
  When I fill in "first_name" with "John" # features/step_definitions/student_steps.rb:20
  And I fill in "last_name" with "Doe" # features/step_definitions/student_steps.rb:20
  And I fill in "email_id" with "john@tamu.edu" # features/step_definitions/student_steps.rb:20
  And I fill in "password" with "password" # features/step_definitions/student_steps.rb:20
  And I fill in "confirm_password" with "password" # features/step_definitions/student_steps.rb:20
  And I submit form # features/step_definitions/student_steps.rb:28
  Then I should be redirected to student document path # features/step_definitions/student_steps.rb:36

18 scenarios (18 passed)
129 steps (129 passed)
0m0.654s

Share your Cucumber Report with your team at https://reports.cucumber.io

Command line option: --publish
Environment variable: CUCUMBER_PUBLISH_ENABLED=true
cucumber.yml: default: --publish

More information at https://cucumber.io/docs/cucumber/environment-variables/

To disable this message, specify CUCUMBER_PUBLISH_QUIET=true or use the
--publish-quiet option. You can also add this to your cucumber.yml:
default: --publish-quiet

harshvardhansurolia@Harshvardhans-MacBook-Air PhD-Annual-Review-System %
```



```
harshvardhansurolia@Harshvardhans-MacBook-Air PhD-Annual-Review-System % rspec
WARNING: Cucumber-rails required outside of env.rb. The rest of loading is being deferred
until env.rb is called. To avoid this warning, move 'gem 'cucumber-rails', require: false'
under only group :test in your Gemfile. If already in the :test group, be sure you are
specifying 'require: false'.
.....
Finished in 0.81359 seconds (files took 1.53 seconds to load)
35 examples, 0 failures

Coverage report generated for RSpec to /Users/harshvardhansurolia/Desktop/SE/PhD-Annual-Review-System/coverage. 395 / 413 LOC (95.64%) covered.
```

Test coverage:

All Files (95.64%)Generated less than a minute ago

All Files (95.64% covered at 1.33 hits/line)

39 files in total.
413 relevant lines, 395 lines covered and 18 lines missed. (95.64%)

Search:

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
app/controllers/admin_controller.rb	100.00 %	24	14	14	0	1.14
app/controllers/application_controller.rb	100.00 %	2	1	1	0	1.00
app/controllers/faculty_controller.rb	100.00 %	25	14	14	0	1.14
app/controllers/student_controller.rb	100.00 %	50	27	27	0	1.59
app/helpers/admin_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/application_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/document_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/faculty_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/home_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/student_documents_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/student_helper.rb	100.00 %	2	1	1	0	1.00
app/helpers/welcome_helper.rb	100.00 %	2	1	1	0	1.00
app/models/admin.rb	100.00 %	12	7	7	0	2.29
app/models/application_record.rb	100.00 %	3	2	2	0	1.00
app/models/faculty.rb	100.00 %	12	7	7	0	2.29
app/models/student.rb	100.00 %	21	15	15	0	2.00
app/models/student_document.rb	100.00 %	4	2	2	0	1.00

Relevant Links

Project Management (Github):

<https://github.com/orgs/PhD-Annual-Review-System/projects/2>

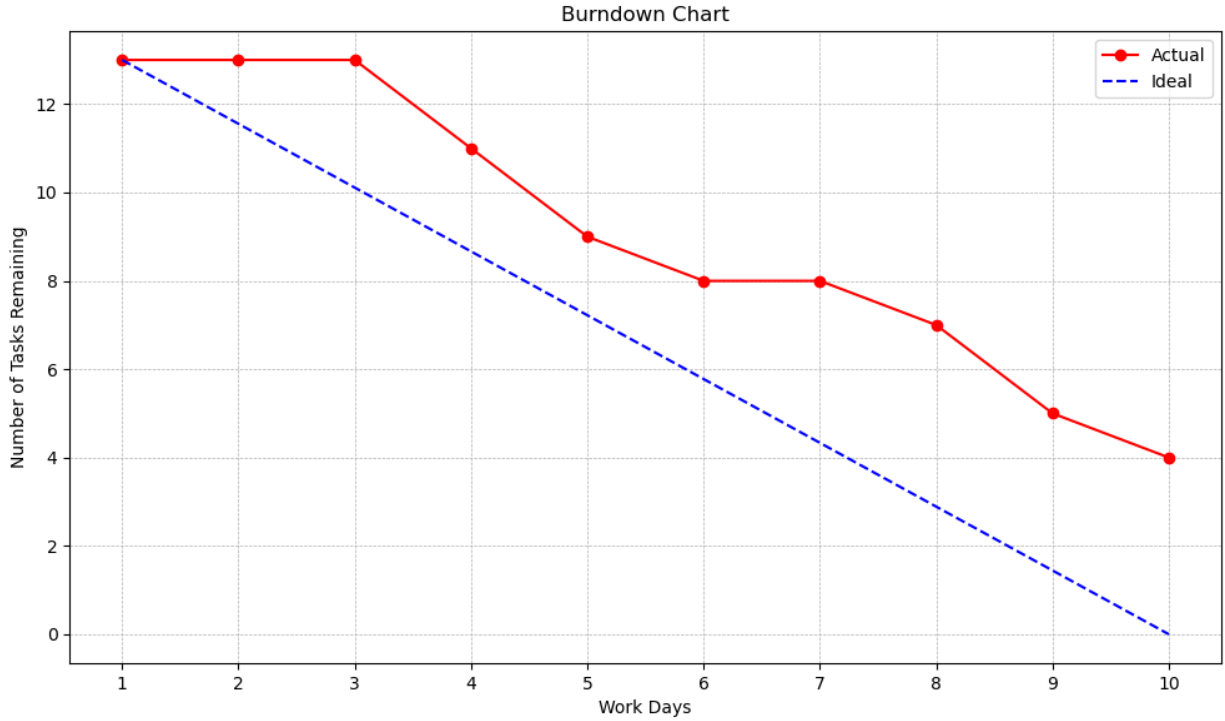
Github Repository:

<https://github.com/PhD-Annual-Review-System/PhD-Annual-Review-System>

Heroku:

<https://phd-review-app-0416787b021c.herokuapp.com/>

Burndown Chart



Work Breakdown

Name	P_i	$E = \frac{n \cdot P_i}{P_T} \cdot 100, P_T = 13$
Neha Joshi	2.5	1.15
Shwetima Sakshi	2.5	1.15
Prachi Surbhi	2	0.92
Harshvardhan Surolia	2	0.92
Shashank Jagtap	2	0.92
Will Harper	2	0.92