

## PROJECT: TEAM FORMATION

### SPRINT-2 Retrospective

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#### SPRINT-2 Schedule :

**Sprint 2 Planning :** 7<sup>th</sup> Oct to 11<sup>th</sup> Oct

**Sprint 2 :** 14<sup>th</sup> Oct to 18<sup>th</sup> Oct

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#### SPRINT-2 Goal :

This application facilitates streamlined, automated team formation for student projects, ensuring diversity, inclusion, and proficiency considerations. Professors can design customizable forms to collect student data on attributes such as gender, ethnicity, and programming proficiency. They can assign weightages to guide team formation and set submission deadlines. Professors also have the flexibility to modify the form, weightages, and deadlines before the submission period closes. Students can securely log in to access the form, submit, and update their responses until the deadline. Once submissions are finalized, the system automatically generates teams of four students, ensuring:

- Gender diversity, with at least two females in teams where females are present.
  - Inclusion of students from underrepresented ethnic backgrounds, ensuring they are not isolated in teams.
  - A balanced mix of programming proficiency by including both high and low-skill coders. This application optimizes the team formation process to create fair, inclusive, and well-balanced student groups.
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#### Team and Member Contributions :

Team formation team consists of 8 members. The tabular representation shows the roles, efforts and fair share effort (%).

Team Member	Role	Tasks Completed	Story points (Effort)	Total no. of hours worked	Fair share percentage(%)
Hitha MV	Product Owner	2	6	18	12.5%
Sai Jaideep Reddy Mure	Scrum Master	3	8	20	12.5%
Uday M	Developer	3	11	24	12.5%
Ramya G	Developer	2	6	12	12.5%
Rithika S	Developer	2	6	12	12.5%
Phani Jyothi K	Developer	2	6	12	12.5%
Raja Karthik V	Developer	3	7	18	12.5%
Sahithi Duppati	Developer	2	6	12	12.5%

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### SPRINT-2 Achievements :

As a Student, I want to login with my google account to see my information and I was able to see the form which was created by the professor and I should see the submitted response and able to edit till the deadline and As a professor I was able to create forms and able to makes changes in forms and able to decide the type of answers either numerical or Multiple choice questions or normal text and publish form with setting deadline and check whether they have submitted response correctly and based on the class size we will divide the class teams based on the size of class usually either 3 or 4 per team.

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### SPRINT-2 Backlog Items and Status:

Sprint-2 Backlog Items	Status
Login with Username and Password for student	+
Display Form with Edit	+
Add Specific Attributes with Type of Mcqs ,Text ,Numerical type of Questions	+
No of teams to be formed	+
Set Attribute Weightage with Total Sum Constraint	+
Successfully publishing a form	+
Apply CSS styling to web pages	+
View Forms	+
Populate Teams by gender, ethnicity, Programming skills	*
Integrations among features and deployment	+

- **Populate Teams by gender, ethnicity, Programming skills(\*)** : Functionality is huge so the client asked to split and push into this and next sprint which makes us to divide the ticket into 2 parts where we will complete logic in coming sprint.
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## Design Diagrams for SPRINT-2 :

### Student Details Form Submission

Edit Submission

First name :

Middle name:

Last name:

UIN :

Email:

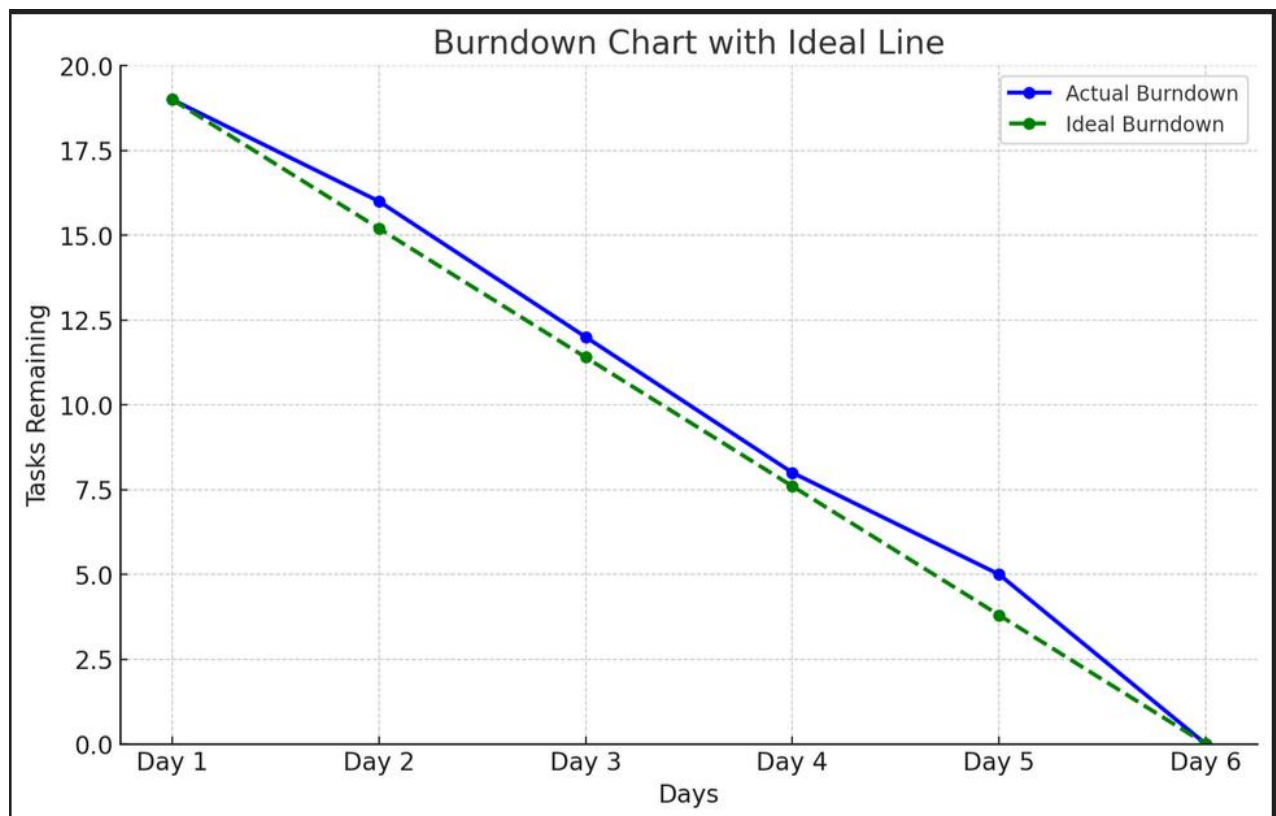
list of pref.

\*

\*

Submit

## Burndown Chart :



## Evaluations of Code & Test Quality :

All Files ( 91.15% )

Controllers ( 89.47% )

Channels ( 100.0% )

Models ( 100.0% )

Mailers ( 100.0% )

Helpers ( 100.0% )

Jobs ( 100.0% )

Libraries ( 100.0% )

Generated 3 minutes ago

All Files ( 91.15% covered at 7.13 hits/line )

14 files in total.

339 relevant lines, 309 lines covered and 30 lines missed. ( 91.15% )


Search:

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
app/controllers/students_controller.rb	53.85 %	47	26	14	12	1.69
app/controllers/form_responses_controller.rb	64.44 %	106	45	29	16	1.07
app/controllers/forms_controller.rb	98.29 %	285	117	115	2	6.47
app/controllers/application_controller.rb	100.00 %	37	13	13	0	42.46
app/controllers/attributes_controller.rb	100.00 %	133	56	56	0	7.50
app/controllers/sessions_controller.rb	100.00 %	27	16	16	0	3.81
app/controllers/users_controller.rb	100.00 %	12	3	3	0	7.00
app/controllers/welcome_controller.rb	100.00 %	16	9	9	0	5.44
app/models/application_record.rb	100.00 %	3	2	2	0	2.00
app/models/attribute.rb	100.00 %	54	16	16	0	11.63
app/models/form.rb	100.00 %	56	20	20	0	12.20
app/models/form_response.rb	100.00 %	10	7	7	0	2.00
app/models/student.rb	100.00 %	8	6	6	0	2.00
app/models/user.rb	100.00 %	4	3	3	0	2.00

Showing 1 to 14 of 14 entries

Generated by simplecov v0.22.0 and simplecov-html v0.13.1 using Cucumber, RSpec

Code Cimate: <https://codeclimate.com/github/phaniyothi11-tamu/team-formation>

 RuboCop Inspection Report
213 files inspected, no offenses detected:
Generated by RuboCop 1.66.1

## bdd & tdd

cucumber scenarios and rspec examples cover all features developed in this iteration.

## Rspec:

```
● rajakarthikvobugari@Rajas-MacBook-Pro team-formation % bundle exec rspec
.....
..
Finished in 1.12 seconds (files took 1.34 seconds to load)
151 examples, 0 failures

Coverage report generated for Cucumber, RSpec to /Users/rajakarthikvobugari/Documents/softwareeng/team-formation/coverage.
Line Coverage: 91.15% (309 / 339)
○ rajakarthikvobugari@Rajas-MacBook-Pro team-formation %
```

## cucumber:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

Given I am logged in # features/step_definitions/user_authentication_and_navigation_steps.rb:8
When I visit my user page # features/step_definitions/user_authentication_and_navigation_steps.rb:82
Then I should see my email address # features/step_definitions/user_authentication_and_navigation_steps.rb:111
And I should see my name # features/step_definitions/user_authentication_and_navigation_steps.rb:115
And I should see a "Logout" link # features/step_definitions/user_authentication_and_navigation_steps.rb:119

Scenario: User logs out # features/user_authentication_and_navigation.feature:34
Given I am logged in # features/step_definitions/user_authentication_and_navigation_steps.rb:8
When I clicks "Logout" # features/step_definitions/user_authentication_and_navigation_steps.rb:22
Then I should be redirected to the welcome page # features/step_definitions/user_authentication_and_navigation_steps.rb:107
And I should see "You are logged out." # features/step_definitions/user_authentication_and_navigation_steps.rb:94

Undefined Scenarios:
cucumber features/form_responses_database.feature:6 # Scenario: Store student responses in the database table
cucumber features/form_responses_database.feature:23 # Scenario: Ineligible student attempts to access the form

33 scenarios (2 undefined, 31 passed)
206 steps (2 skipped, 5 undefined, 199 passed)
0m0.656s

You can implement step definitions for undefined steps with these snippets:

Given('I have uploaded a list of eligible students for the form') do
  pending # Write code here that turns the phrase above into concrete actions
end

When('an eligible student submits their responses') do |table|
  # table is a Cucumber::MultilineArgument::DataTable
  pending # Write code here that turns the phrase above into concrete actions
end

When('an ineligible student attempts to access the form') do
  pending # Write code here that turns the phrase above into concrete actions
end

Then('they should see an error message {string}') do |string|
  pending # Write code here that turns the phrase above into concrete actions
end

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

Coverage report generated for Cucumber, RSpec to /Users/rajakarthikvobugari/Documents/softwareeng/team-formation/coverage.
Line Coverage: 91.15% (309 / 339)
Stopped processing SimpleCov as a previous error not related to SimpleCov has been detected
```

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## Documentation of changes :

Initially the app was deployed on <https://team-formation-be0f7e7d165b.herokuapp.com/> but due to some technical issues the deployment link got changed to this: <https://team-formation-a0e77914b192.herokuapp.com/> and also we have modified tickets where we have split the backend logic into 2 parts according to client request due to heavy work.

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## SPRINT-2 MVP Demo Summary:

The product owner has presented a demo of Sprint-2 MVP with the client over a scheduled meeting.

**Meeting** : Zach-425(physical meeting) on 21-oct

### Summary :

In the meeting with the client to discuss the project's second sprint development and obtain the thorough feedback, the product owner demoed the progress so far. Here are some of the results and highlights.

1. The product owner was satisfied with the functionalities implemented on the student module side of things and approved them.
2. The backend logic was presented in the form of flow chart and was approved by client.
3. The progress of the backend logic and the completion strategy for the next sprint were discussed and approved.
4. The client was interested in a feature that allows them to access all recorded form

responses submitted by students

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**Project Resources :**

**Heroku :** : <https://team-formation-a0e77914b192.herokuapp.com/>

**GitHub Repo :** <https://github.com/phanijyothi11-tamu/team-formation>

**Project Management page :** <https://github.com/users/phanijyothi11-tamu/projects/1>

**Slack workspace :** <https://app.slack.com/client/T07PN8XD8D7/C07P6NWELCD>