Sprint 4 Retrospective

Links

[Pivotal Tracker](#)

[GitHub repo](#)

[Heroku deployment](#)

Dates of the sprint

April 5 - April 19

Team Info

Product Owner: Syeda Fizza Ali
Scrum Master: Chenxin Li
Devs: Mackenzie Hamlett, Jakob Kirby, Francis Bui, Tolga Yildiz, Michael Chiu

Member Contributions

- Tolga Yildiz: Implemented feature 1 story 1.
- Fizza Ali: Implemented feature 3 story 3 as well as set up client meetings as well as lead client/ customer discussions and emails. Merged PRs.
- Francis Bui: Implemented feature 1 story 1, feature 1 story 2, feature 3 story 1, and feature 3 story 2, eliminated Cucumber and Rspec errors, and increased test coverage.
- Mackenzie Hamlett: Implemented feature 1 story 2 and feature 3 story 3, and .
- Michael Chiu: Implemented feature 1 story 1
- Chenxin Li: Implemented feature 2 story 1 and feature 2 story 2.
- Jakob Kirby: Implemented feature 3 story 1 and feature 3 story 2, eliminated Cucumber and Rspec errors, and increased test coverage.

Sprint Goal

The sprint goal is to enhance the user experience and functionality of the Healthy Challenge platform through the implementation of new features and improvements in currently implemented features. This includes adding a Discussion Board feature, allowing users to engage in discussions by creating posts with a modernized user interface, as well as integrating a Return Button for both instructors and clients to navigate back to previous pages seamlessly. Additionally, the goal involves updating and fixing testing frameworks to ensure smoother

development processes and fewer errors, encompassing tasks such as eliminating RuboCop and Rubycritic errors, and resolving failing tests in Cucumber and RSpec.

Sprint Achievements

Feature 1 Story 1: Completed by Tolga Yildiz, Michael Chiu, Francis Bui
Feature 1 Story 2: completed by Mackenzie Hamlett, Francis Bui
Feature 2 Story 1: Completed by Chenxin LI
Feature 2 Story 2: Completed by Chenxin Li
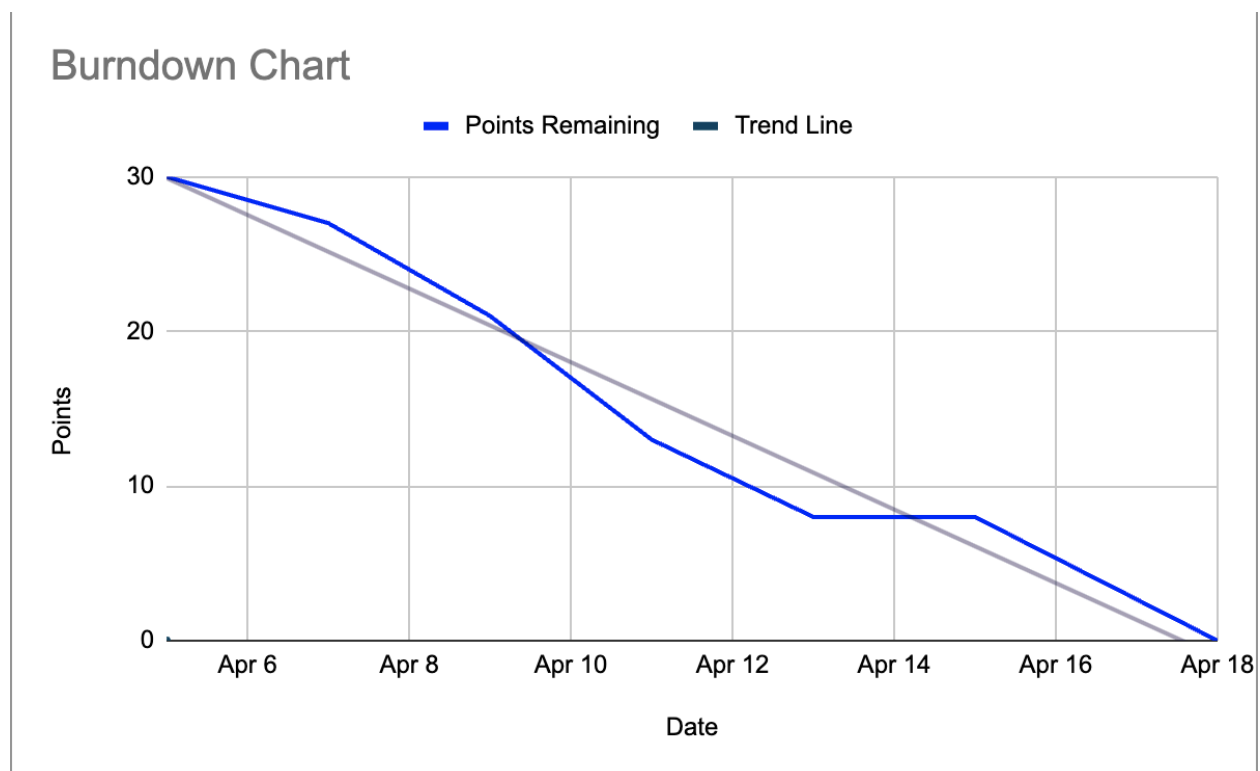Feature 3 Stories 1: Completed by Francis Bui, Jakob Kirby
Feature 3 Stories 2: Completed by Francis Bui, Jakob Kirby
Feature 3 Stories 3: Completed by Mackenzie Hamlett and Fizza Ali

Backlog Items

During this sprint we kept two stories currently in the backlog from sprint 1 in our backlog for all of sprint 3 and will carry over into sprint 4; these include Retrieve user Tracking Data as well as Store User Tracking Data. These will stay in the backlog and blocked until we implement stories in sprint 4 to keep track of the dates in which clients are tracking completed tasks and challenges. During this sprint we did not move any stories worked on to the backlog.
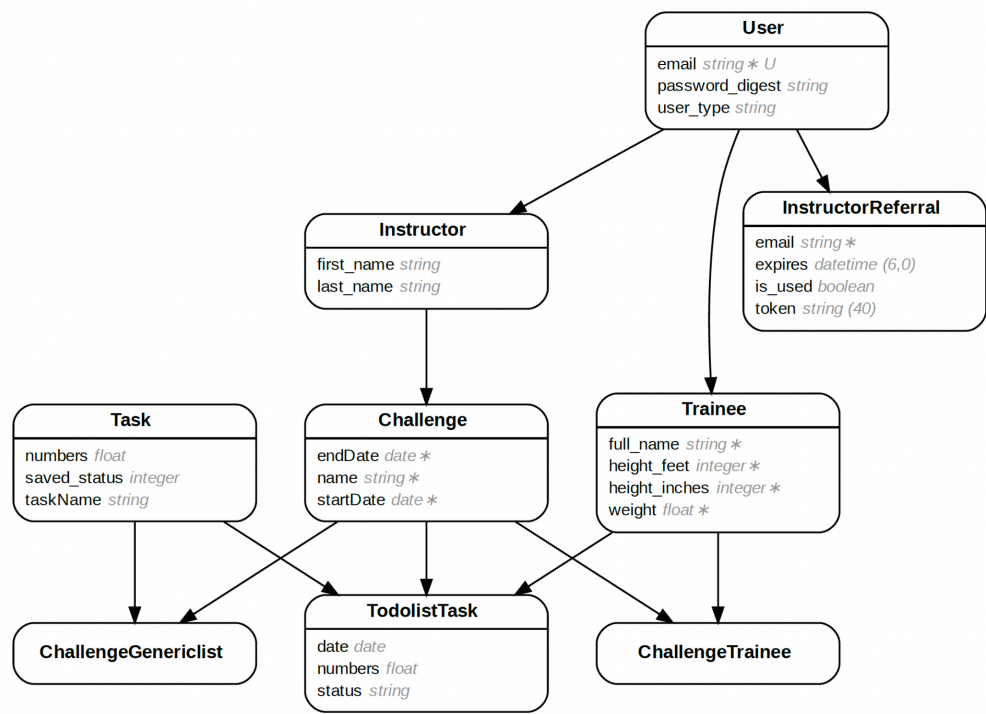
Burndown Chart

Documentation of Changes

- implemented feature 1 story 1:
    - Add discussion board pages
    - Add rudimentary functionality to type a post in the page.
- Implemented feature 1 story 2:
    - Add UI design to the discussion board
    - Add a modernized look to the interface for user friendliness.
- Implemented feature 2 story 1:
    - Add return buttons to allow the user(instructors) to go back to the previous page.
    - Update unit and integration testing for new functionality.
- Implemented feature 2 story 2:
    - Add return buttons to allow the user(trainees) to go back to the previous page.
    - Update unit and integration testing for new functionality.
- Implemented feature 3 story 1:
    - Fix RuboCop Errors.
    - Fix Rubycritic Errors.
- Implemented feature 3 story 2:
    - Fix Cucumber failing tests. Now, none are failing and added more.
    - Fix Rspec failing tests. Now, none are failing and added more.
    - Increase Cucumber and Rspec test coverage. Both >90% now.
- Implemented feature 3 story 3:
    - Fix Login/ Home page Mobile pages for instructor and client
    - Fix Challenge Mobile page for instructor and client
    - Fix View Task Table
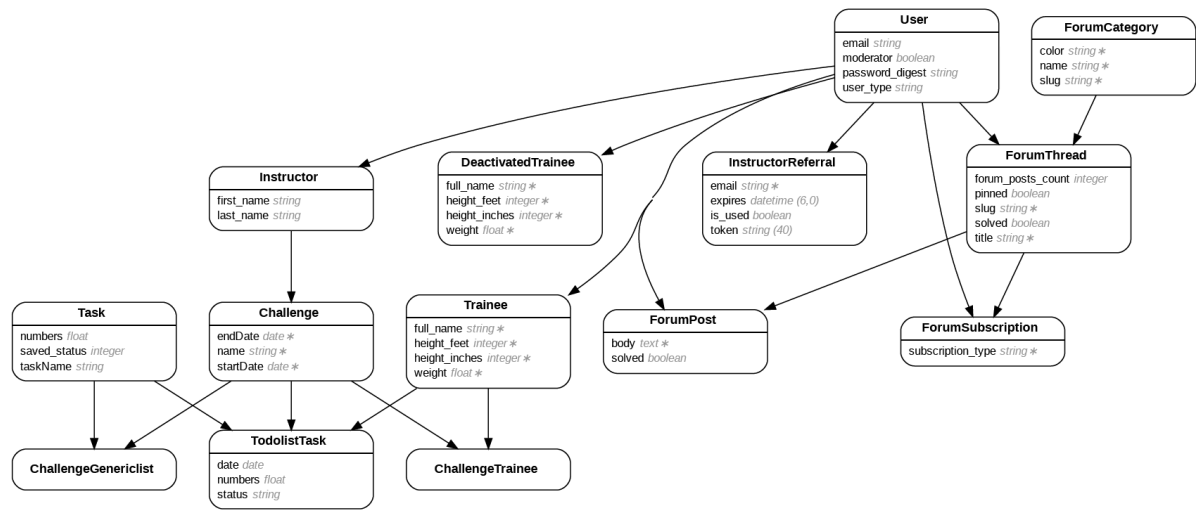   - Add Mobile functionality to Discussion board page

Design Diagram

App domain model

User
email *string* ✱ *U*
password_digest *string*
user_type *string*

Instructor
first_name *string*
last_name *string*

InstructorReferral
email *string* ✱
expires *datetime (6,0)*
is_used *boolean*
token *string (40)*

Task
numbers *float*
saved_status *integer*
taskName *string*

Challenge
endDate *date* ✱
name *string* ✱
startDate *date* ✱

Trainee
full_name *string* ✱
height_feet *integer* ✱
height_inches *integer* ✱
weight *float* ✱

ChallengeGenericlist

TodolistTask
date *date*
numbers *float*
status *string*

ChallengeTrainee

Old Design Diagram

App domain model

User
email *string*
moderator *boolean*
password_digest *string*
user_type *string*

ForumCategory
color *string* ✱
name *string* ✱
slug *string* ✱

Instructor
first_name *string*
last_name *string*

DeactivatedTrainee
full_name *string* ✱
height_feet *integer* ✱
height_inches *integer* ✱
weight *float* ✱

InstructorReferral
email *string* ✱
expires *datetime (6,0)*
is_used *boolean*
token *string (40)*

ForumThread
forum_posts_count *integer*
pinned *boolean*
slug *string* ✱
solved *boolean*
title *string* ✱

Task
numbers *float*
saved_status *integer*
taskName *string*

Challenge
endDate *date* ✱
name *string* ✱
startDate *date* ✱

Trainee
full_name *string* ✱
height_feet *integer* ✱
height_inches *integer* ✱
weight *float* ✱

ForumPost
body *text* ✱
solved *boolean*

ForumSubscription
subscription_type *string* ✱

ChallengeGenericlist

TodolistTask
date *date*
numbers *float*
status *string*

ChallengeTrainee

New Design Diagram

Customer Meeting for MVP Demo

23 April 2024 - Zoom

Feedback: Dr. Niki provided feedback, including positive remarks on our implementation of the return button, mobile view, and discussion board. However, she suggested adding a home button and deleting functionality to the discussion board to enhance its usability and convenience.
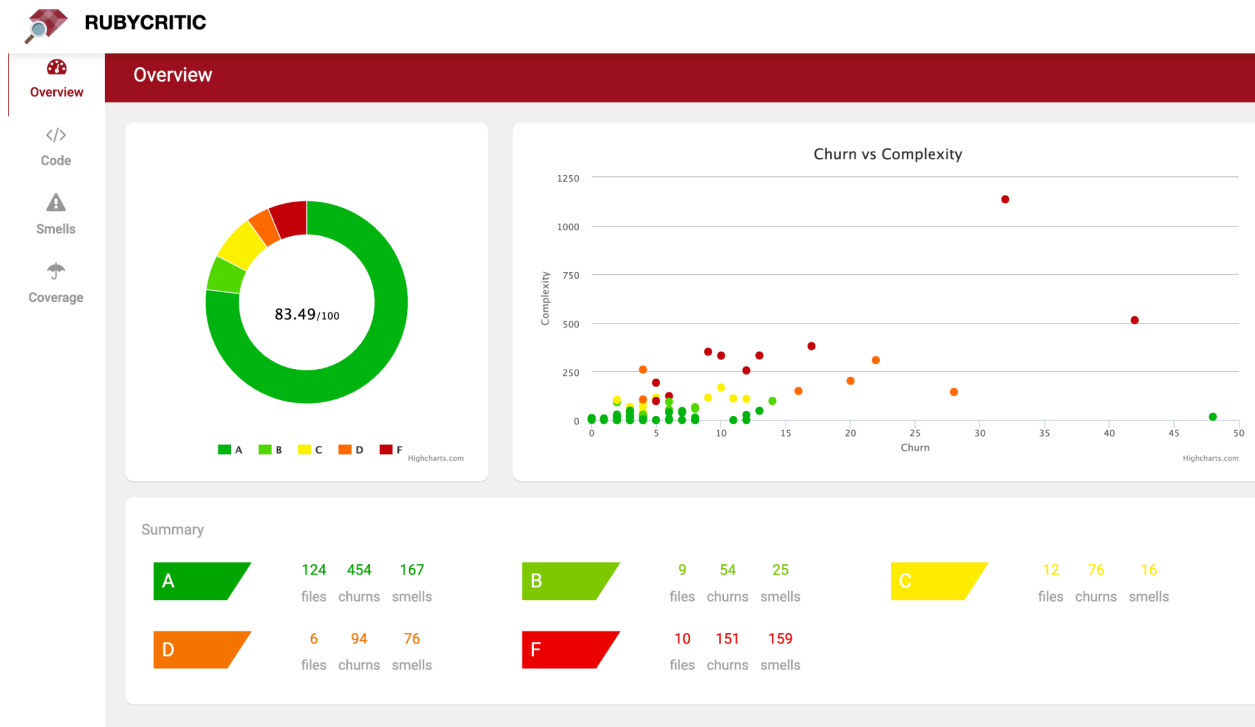
Reports

Evaluations of Code and Test Quality

Rubocop Report

```
lib/tasks/auto_generate_diagram.rake:1:1: C: [Correctable] Style/FrozenStringLiteralComment: Missing frozen string literal comment.
# NOTE: only doing this in development as some production environments (Heroku)
^
spec/controllers/challenges_controller_spec.rb:184:7: C: Naming/VariableName: Use snake_case for variable names.
    @challengeGenList = ChallengeGenericlist.create(task: @task, challenge: @challenge)
    ^^^^^^^^^^^^^^^^^
spec/controllers/challenges_controller_spec.rb:222:7: C: Naming/VariableName: Use snake_case for variable names.
    @challengeGenList = ChallengeGenericlist.create(task: @task, challenge: @challenge)
    ^^^^^^^^^^^^^^^^^
spec/controllers/challenges_controller_spec.rb:241:7: C: Naming/VariableName: Use snake_case for variable names.
    @challengeGenList = ChallengeGenericlist.create(task: @task, challenge: @challenge)
    ^^^^^^^^^^^^^^^^^
spec/controllers/challenges_controller_spec.rb:252:7: C: Naming/VariableNumber: Use normalcase for variable numbers.
    task_params_2 = { taskName: 'New Task 2' }
    ^^^^^^^^^^^^^
spec/controllers/challenges_controller_spec.rb:274:7: C: Naming/VariableName: Use snake_case for variable names.
    @challengeGenList = ChallengeGenericlist.create(task: @task, challenge: @challenge)
    ^^^^^^^^^^^^^^^^^
test/factories/deactivated_trainees.rb:1:1: C: [Correctable] Style/FrozenStringLiteralComment: Missing frozen string literal comment.
FactoryBot.define do
^
test/models/deactivated_trainee_test.rb:1:1: C: [Correctable] Style/FrozenStringLiteralComment: Missing frozen string literal comment
require 'test_helper'
^

173 files inspected, 71 offenses detected, 12 offenses autocorrectable
francisbui@Franciss-MacBook-Pro healthy-behavior-challenge %
```

Rubycritic Report

RUBYCRITIC

	Rating	Name	Churn	Complexity	Duplication	Smells
	F	ChallengesController	42	514.41	190	91
	F	BestDaysSteps	5	192.38	262	5
	F	TodoListSteps	12	255.46	110	5
	F	UpdateTraineeTodoSteps	5	98.13	201	5
	F	ViewTraineeSteps	10	331.85	38	3
	F	ViewTraineeTodoSteps	6	123.35	345	5
	F	ChallengesControllerSpec	32	1136.52	512	24
	F	InstructorsControllerSpec	17	380.75	330	4
	F	TodoListControllerSpec	13	332.38	142	10
	F	ViewTraineesControllerSpec	9	351.8	144	7

BDD&TDD

RSpec Coverage Report

All Files (94.52% covered at 2.48 hits/line)

39 files in total.
1278 relevant lines, **1208** lines covered and **70** lines missed. (94.52%)

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
app/controllers/todo_list_controller.rb	69.33 %	276	150	104	46	1.82
app/controllers/users_controller.rb	84.21 %	34	19	16	3	2.32
app/controllers/trainee_signup_controller.rb	90.00 %	39	20	18	2	2.00
app/controllers/challenges_controller.rb	92.38 %	384	223	206	17	3.09
app/controllers/profiles_controller.rb	95.00 %	39	20	19	1	1.70
app/controllers/instructors_controller.rb	98.41 %	111	63	62	1	2.51
app/controllers/application_controller.rb	100.00 %	9	4	4	0	15.00
app/controllers/instructor_referral_controller.rb	100.00 %	35	20	20	0	1.45
app/controllers/password_resets_controller.rb	100.00 %	49	27	27	0	1.30
app/controllers/sessions_controller.rb	100.00 %	28	17	17	0	1.65
app/controllers/trainee_profile_controller.rb	100.00 %	36	19	19	0	2.53

Cucumber Report

All Files (92.2% covered at 7.72 hits/line)

51 files in total.
1551 relevant lines, **1430** lines covered and **121** lines missed. (92.2%)

Search: _____

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
app/controllers/todo_list_controller.rb	67.33 %	276	150	101	49	7.91
app/controllers/view_challenge_tasks_controller.rb	70.00 %	37	20	14	6	40.20
app/controllers/trainee_profile_controller.rb	78.95 %	36	19	15	4	1.84
app/controllers/users_controller.rb	78.95 %	34	19	15	4	38.26
app/controllers/challenges_controller.rb	87.44 %	384	223	195	28	5.30
app/controllers/instructor_referral_controller.rb	90.00 %	35	20	18	2	4.10
features/step_definitions/forgot_password_steps.rb	92.31 %	80	39	36	3	1.41
features/step_definitions/login_steps.rb	93.10 %	56	29	27	2	3.34
features/step_definitions/todo_list_steps.rb	93.26 %	148	89	83	6	3.17
features/step_definitions/trainee_signup_steps.rb	93.33 %	61	30	28	2	1.43
app/controllers/view_trainees_controller.rb	93.62 %	84	47	44	3	2.85
features/step_definitions/update_challenge_steps.rb	94.74 %	38	19	18	1	8.79
features/step_definitions/instructorsignup_steps.rb	94.92 %	108	59	56	3	3.05
app/controllers/profiles_controller.rb	95.00 %	39	20	19	1	1.40
app/controllers/instructors_controller.rb	95.24 %	111	63	60	3	10.68
features/step_definitions/list_challenges_steps.rb	95.65 %	45	23	22	1	4.13
features/step_definitions/update_trainee_todo_steps.rb	97.37 %	74	38	37	1	74.92
features/step_definitions/challenge_steps.rb	98.89 %	171	90	89	1	1.96
features/step_definitions/view_trainee_steps.rb	99.13 %	206	115	114	1	2.06
app/controllers/application_controller.rb	100.00 %	9	4	4	0	49.50
app/controllers/password_resets_controller.rb	100.00 %	49	27	27	0	1.67