NXTFolio - Iteration 3

Team Members

·   Guang Hui Liew – Scrum Master

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·   Vishnuvasan Raghuraman – Product Owner

Links

GitHub repo: https://github.com/FashioNXT/NXTFolio/tree/fall2023

Pivotal Tracker: https://www.pivotaltracker.com/n/projects/2635646

Slack: https://app.slack.com/client/T05RUQT9FQB/C05REBYT4S3

Deploy: https://nxtfolio.herokuapp.com

Client Meeting

Customer Meeting: Zoom, Friday, 27 Oct - 6pm

10/27/2023 -   Client meeting summary

During the client meeting, various key points were addressed. We initiated the session with a demonstration of the recently fixed legacy Job Search functionality, which the client found to be satisfied with. Suggestions were made to improve the UI, along with a request to incorporate a "travel" parameter in the search algorithm to align with requirements. We also presented the collaborator-only comment feature, which garnered feedback and change requests. The client requested modifications to the way this feature operates. Additionally, we showcased the Chatbot feature and received input on its placement on the website and how the target audience can make use of it. Finally, there was a mutual agreement to enhance the application's UI/UX, aligning it with the standards set by popular websites like Indeed and Upwork. We assured the client that our primary focus would be on developing fully functional features with an appropriate UI, with plans to address the aforementioned UX aspect at a later point in time.

User Stories Implementation

We have picked the following user stories to work on for this iteration.

<u>User Story 1</u>
During iteration 2, we identified the incomplete job search functionality. Specifically, while the views for job search were implemented, the underlying search algorithm was missing. In fact, the search results will show all existing jobs no matter what keywords, profession, and location information are given. After taking a closer look at the code, the function for job search indeed natively returns all existing jobs. Thus this user story aims to complete the job search functionality.

Feature: Job searching
As a professional,
I want to search for jobs based on keywords, profession, and location information,
So that relevant jobs show up and irrelevant ones do not.

<u>User Story 2</u>
In this iteration, we implemented the AI chatbot function using Chatgpt api. Users can talk with the chatbot to get suggestions on how to set up and design their fashion portfolio. Right now, the page has a minimal frontend design, so moving forward we will work on the frontend and more feature-related updates on this feature, such as limiting prompts users can input to the chatbot.

Feature: AI Chatbot
As a fashion content creator
I want to get suggestions on how to set up a nice portfolio profile for NXTFolio

NXTFolio Chatbot

You: Hi
Assistant: Hello! How can I assist you today?
[Type your message...] [Send]

Test Cases and Coverage (SimpleCov & Cucumber + Rspec) :

AI Chatbot Test Cases:

```
Scenario: I can access the ai chatbot page
  Given I am a content creator and I want to learn how to set up fashion portfolio
  And I want to go to the ai chatbot page
  When I enter "Hi" message and click send
  Then I should see assistant's reply
```

Job Search Test Cases

```
    Scenario: When a user searches with empty keyword and none of the options is selected, then all existing jobs show up # features/job_search.feature:21
Capybara starting Puma...
* Version 6.2.2 , codename: Speaking of Now
* Min threads: 0, max threads: 4
* Listening on http://0.0.0.0:3000
PG::Coder.new(hash) is deprecated. Please use keyword arguments instead! Called from /usr/share/rvm/gems/ruby-3.2.0/gems/activerecord-6.1.4.7/lib/active_record/connection_adapters/postgresql_adapter.rb:88
3:in `new'
    Given I am logged in as "Andrea.Picardo"                                         # features/step_definitions/general_steps.rb:195
    And I go to job_info_search                                                       # features/step_definitions/general_steps.rb:253
    Then I should click on the job search button                                     # features/step_definitions/job_search_steps.rb:81
    Then I should see "Search Results For Jobs"                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Model 1"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Model 2"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Model 3"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Photographer 1"                                                # features/step_definitions/general_steps.rb:265
    Then I should see "Photographer 2"                                                # features/step_definitions/general_steps.rb:265

    Scenario: When a user searches with a valid keyword, jobs with matches in titles or descriptions should show up # features/job_search.feature:33
    Given I am logged in as "Andrea.Picardo"                                         # features/step_definitions/general_steps.rb:195
    And I go to job_info_search                                                       # features/step_definitions/general_steps.rb:253
    When I fill in the following:                                                     # features/step_definitions/general_steps.rb:227
      | search          | model |
    Then I should click on the job search button                                     # features/step_definitions/job_search_steps.rb:81
    Then I should see "Model 1"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Model 2"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Model 3"                                                       # features/step_definitions/general_steps.rb:265
    Then I should not see "Photographer 1"                                           # features/step_definitions/general_steps.rb:277
    Then I should not see "Photographer 2"                                           # features/step_definitions/general_steps.rb:277
    When I fill in the following:                                                     # features/step_definitions/general_steps.rb:227
      | search          | animal |
    Then I should click on the job search button                                     # features/step_definitions/job_search_steps.rb:81
    Then I should see "Photographer 1"                                                # features/step_definitions/general_steps.rb:265

    Scenario: When a user searches with a keyword that has no match to the existing jobs, then a no result message should show up # features/job_search.feature:50
    Given I am logged in as "Andrea.Picardo"                                         # features/step_definitions/general_steps.rb:195
    And I go to job_info_search                                                       # features/step_definitions/general_steps.rb:253
    When I fill in the following:                                                     # features/step_definitions/general_steps.rb:227
      | search          | designer |
    Then I should click on the job search button                                     # features/step_definitions/job_search_steps.rb:81
    Then I should see "No Results For This"                                           # features/step_definitions/general_steps.rb:265

    Scenario: When a user searches with location information, then jobs with matching location should show up # features/job_search.feature:59
    Given I am logged in as "Andrea.Picardo"                                         # features/step_definitions/general_steps.rb:195
    And I go to job_info_search                                                       # features/step_definitions/general_steps.rb:253
    When I select "United States" from "country"                                      # features/step_definitions/general_steps.rb:257
    And I select "Texas" from "state"                                                 # features/step_definitions/general_steps.rb:257
    Then I should click on the job search button                                     # features/step_definitions/job_search_steps.rb:81
    Then I should see "Model 3"                                                       # features/step_definitions/general_steps.rb:265
    Then I should see "Photographer 1"                                                # features/step_definitions/general_steps.rb:265
    Then I should see "Photographer 2"                                                # features/step_definitions/general_steps.rb:265
    Then I should not see "Model 1"                                                   # features/step_definitions/general_steps.rb:277
    Then I should not see "Model 2"                                                   # features/step_definitions/general_steps.rb:277

4 scenarios (4 passed)
44 steps (44 passed)
0m20.590s
```

The test cases for AI chatbot and job search cover most of the newly added code in this iteration. Overall, 52 out of 81 scenarios passed and the coverage is 28.69%. The 29 failed scenarios are all legacy tests from previous teams.

```
81 scenarios (28 failed, 1 undefined, 52 passed)
579 steps (28 failed, 101 skipped, 6 undefined, 444 passed)
14m45.171s
```

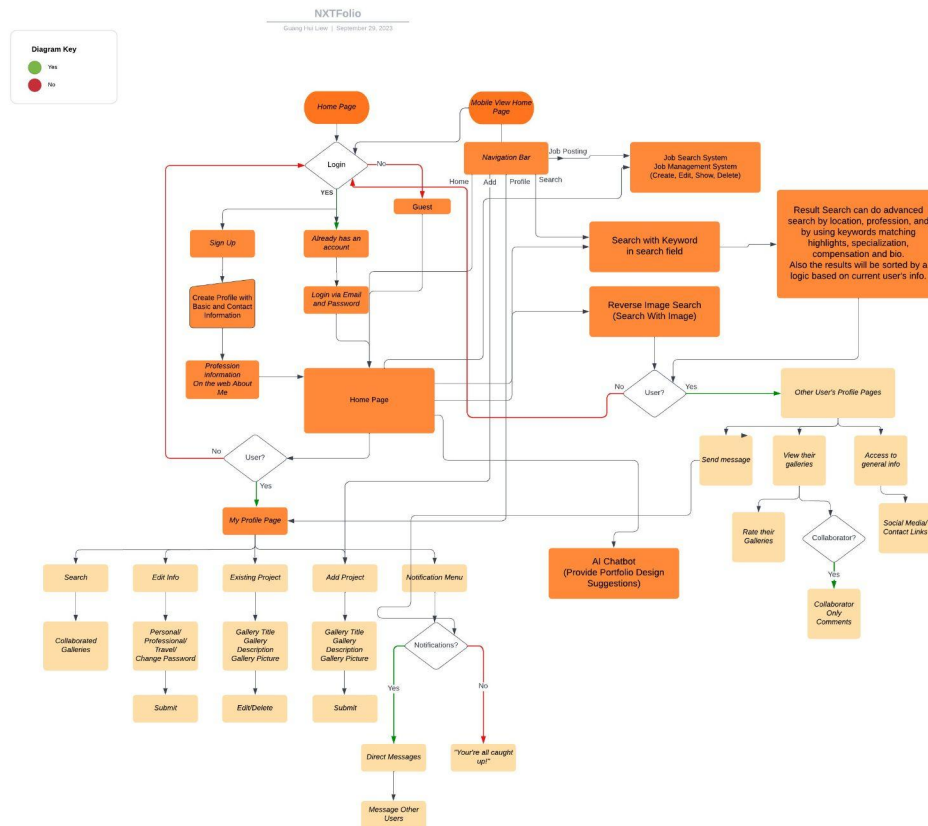# All Files (28.69% covered at 3.86 hits/line)

68 files in total.
2224 relevant lines, **638** lines covered and **1586** lines missed. (28.69%)

Search:

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed
🔍 app/channels/application_cable/channel.rb	0.00 %	4	4	0	4
🔍 app/channels/application_cable/connection.rb	0.00 %	4	4	0	4
🔍 app/controllers/admin/admin_controller.rb	0.00 %	150	115	0	115
🔍 app/controllers/cities_controller.rb	0.00 %	9	8	0	8
🔍 app/controllers/edit_job_controller.rb	0.00 %	143	103	0	103
🔍 app/controllers/password_resets_controller.rb	0.00 %	57	36	0	36
🔍 app/controllers/reviews_controller.rb	0.00 %	71	46	0	46
🔍 app/controllers/specific_designer_controller.rb	0.00 %	108	73	0	73
🔍 app/controllers/specific_model_controller.rb	0.00 %	106	73	0	73
🔍 app/controllers/specific_photographer_controller.rb	0.00 %	100	78	0	78
🔍 app/controllers/states_controller.rb	0.00 %	8	8	0	8
🔍 app/controllers/users/omniauth_callbacks_controller.rb	0.00 %	65	26	0	26
🔍 app/jobs/application_job.rb	0.00 %	2	2	0	2
🔍 app/mailers/forgot_mailer.rb	0.00 %	14	6	0	6

Design Diagram (See attached file in i3.tar) :

In this iteration, we focused on working on the job-searching feature and ai chatbot feature.

Unfinished Stories

Feature: Enabling Comments on Galleries

As a User,

So that I can comment on my posts,

I want to be able to comment on my posts, both created and collaborated. I also want my collaborators to be able to comment on my post.
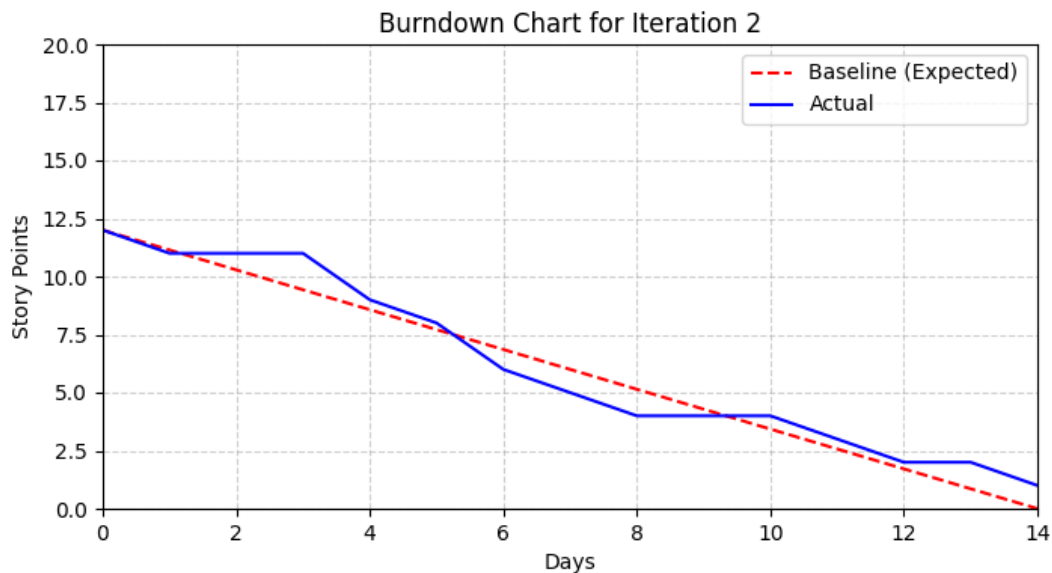
After the previous iteration, in the current development cycle, extra features and test cases were added to the existing comment functionality. The features included doing validations for empty comments and printing the user name of the respective collaborator upon a successful comment. After the client meeting, we were given extra

functionalities to work upon due to which the user story was not able to be completed. For the features that were developed before the client meeting, we meticulously incorporated multiple Cucumber test scenarios, aligning with rigorous Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies.

Production & System Customer Transfer

The repository is uploaded to the client's GitHub and deployed on Heroku with the client's credentials.

Burndown Chart

Burndown Chart for Iteration 2

Member's Effort

Total Points = 12

	Guang Hui Liew	Piyush Sharan	Quanqi Hu	Vishnuvasan Raghuraman
Points	3	3	3	3
Effort	100%	100%	100%	100%

Pivotal Tracker: https://www.pivotaltracker.com/n/projects/2635646