

Sprint 3 Retrospective

Links

- Deployed App: <https://nxtfolio-fall-24-ff06e002a0ca.herokuapp.com/>
- GitHub: <https://github.com/omarkhater-school/NXTFolio>
- Slack: <https://csce606-nxtfoliogroup.slack.com/>
- Tracker: <https://tree.taiga.io/project/honraoyash-fashionxt-nxtfolio/>

Sprint Duration

- Start Date: October 25th, 2024
- End Date: November 8th, 2024

Team Members and Contribution

- Caroline Li (Scrum Master): Conducted daily stand-up meetings. Checked in with developers on user story progress. Communicated with the product owner to ensure user stories remained focused on improving the application. Worked on improving code quality and reducing code smells.
- Venkat Pitta (Product Owner): Communicated with the client and scheduled meetings to discuss sprint plans, documenting the meeting minutes. Refactored and restructured files to improve code climate and quality.
- Likhith Majjigapu (Developer): Refactored and restructured files to improve code climate and quality. Made changes to the database schema, updated the UI, and wrote unit tests for the 'Edit Gallery' feature.
- Brandon Hill (Developer): Refactored and restructured files to improve code climate and quality. Implemented AI-powered bio generation with full test coverage. Performed extensive debugging and documented new code. Cleaned up legacy code when possible.
- Omar Khater (Developer): Wrote Cucumber tests and RSpec tests for the AI user bio feature. Identified key user information elements to prompt the LLM. Designed a new database schema to improve app development. Refactored the existing database schema and created new models, all with full unit test coverage. This work is published on the 'fresh_new_db_design' branch.
- Yash Honrao (Developer): Refactored and restructured files to improve code climate and quality. Worked on the Instagram integration by resolving technical issues and obstacles with the Instagram Basic Display API. Refactored the Sessions Controller and the frontend. Added Instagram testers to the Meta for Developers account. Performed extensive debugging and documented new code. Cleaned up legacy code when possible.

- Manikanta Gudipudi (Developer): Refactored and restructured files to improve code climate and quality. Worked on the Instagram integration by resolving technical issues and obstacles with the Instagram Basic Display API.

Member	Contribution
Caroline Li	14.29%
Venkat Pitta	14.29%
Likhith Majjigapu	14.29%
Brandon Hill	14.29%
Omar Khater	14.29%
Yash Honrao	14.29%
Manikanta Gudipudi	14.29%

Sprint Goals

The main focus of this sprint is to clean up and reorganize code while completing any unfinished user stories. We will refactor parts of the legacy code to improve performance, readability, and maintainability, aiming to reduce code complexity and reduce code smells. Additionally, we will ensure that our testing strategies are robust by revisiting our unit and acceptance tests, increasing overall coverage, and separating functional tests from unit tests. We will also address any issues related to running the app in the development environment and enhance our documentation, including the README and installation instructions. We want to deliver a more organized codebase, some initial AI features, and a fully completed set of previously unfinished user stories, setting a strong foundation for future work.

Sprint Achievements

Complete all unfinished user stories from sprint 2

Feature1: Improve user bio with AI

As the CEO of FashionNXT

So that I can Improve my user portfolio

I want to give user AI suggestions on how to refactor their bio

Scenario: AI improves bio

Given I am logged in

And I am on the edit profile page

When I press the AI Improve button on the user bio

Then I will see a text suggestion

And it will contain a new bio suited to my profile

Feature2: Connect to Instagram

As a user

So I can showcase my other platforms

Want to be able to connect my Instagram account to my profile

Scenario: Connect to Instagram

Given I am on the edit profile page

And I see a button to connect to my Instagram account

When I click on the button

Then I will be redirected to an Instagram authentication page

And I will be able to log in

And I will choose which data to grant the website access to

Then I will be redirected to the edit profile page

Feature3: Edit project information

As a creator

So that I can update my project information

Want to edit and save changes to published projects

Scenario: Edit a project

Given I have a project created

And I am on the show project page

When I click the edit button

And I enter new information

And I press save changes

Then the project data is changed

Backlog Items and Status

Removed/In progress stories

Refactoring plan:

Database Optimization

- Review and improve the existing database design to enhance performance, scalability, and maintainability. This will include evaluating normalization levels, indexing strategies, and query optimization.

Test Optimization

- Refactor unit and acceptance tests to adhere to the DRY (Don't Repeat Yourself) principle, consolidating shared logic to enhance readability and maintainability.

Code Quality Improvement

- Identify and address code smells throughout the codebase, with a focus on simplifying and standardizing code to reduce technical debt and improve maintainability.

Test Segmentation

- Separate functional tests from unit tests to clarify the testing scope and ensure each test type addresses its specific focus. This will enhance test execution and analysis.

Coverage Enhancement

- Increase test coverage by identifying and adding tests for untested or under-tested areas, aiming for comprehensive coverage of critical code paths and reducing potential risk areas.

Development Environment Stability

- Investigate and resolve issues affecting the app's functionality in the development environment, ensuring a stable environment for future development and testing.

Documentation Revision

- Update and enhance the README and installation instructions to ensure clear, comprehensive guidance for setting up, deploying, and testing the application, including any changes from the refactoring process.

The refactoring plan is still in progress due to complications related to the legacy code, and more test cases still need to be written to meet the requirements.