Empowering Healthcare through Open Source: A Journey of Reflections

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QA Engineering Fellow
GSoC 2023 Mentor
OpenMRS

Overview

During my OpenMRS Fellowship project, my primary focus was on improving the overall product quality of OpenMRS while enhancing the developer experience. The project aimed to achieve this by implementing effective End-to-End (E2E) tests using the playwright testing framework.

Fellowship Journey

Goals

1. Writing effective end-to-end (E2E) tests with playwright for OpenMRS 3.0 RefApp
2. Learning about software testing and test automation
3. Become a GSoC mentor

During my time I worked with my mentor Jayasanka, and collaborated with various contributors. I also interacted with the Ethiohri team and UCSF team for the capstone project.

What I Learned

Faced several challenges during my fellowship, such as identifying test cases, encountering bugs that blocked the completion of E2E tests, issues with tests being running on actions and migration-related problems causing the Ethiohri server to go offline.

Tackled the challenges by collaborating with my mentor and fellow contributors to address bugs and issues.

Learned valuable problem-solving skills, effective communication within the community, and the importance of persistence and determination when faced with obstacles during a development project.
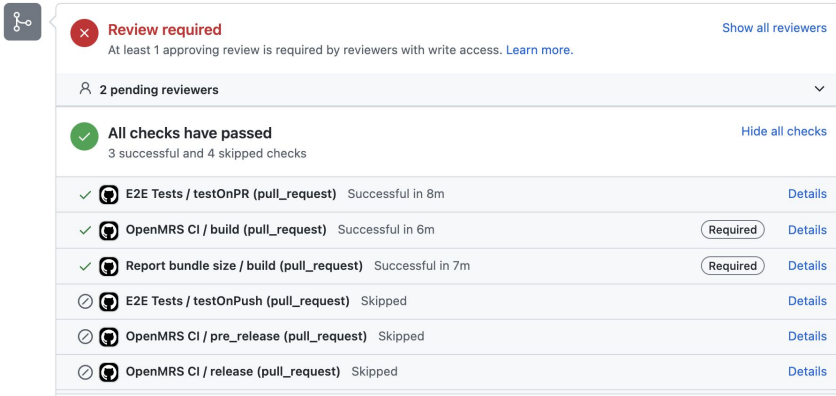
Achievements

- Writing E2E tests with playwright for the OpenMRS 3.0 RefApp and Ethiohri project.
- Successfully merging and contributing to various pull requests related to E2E tests, unit tests, and integration tests.
- Creating epics and leading them
- Leading Squad calls
- Preparing a comprehensive capstone project proposal to implement test-driven development practices for Ethiohri.
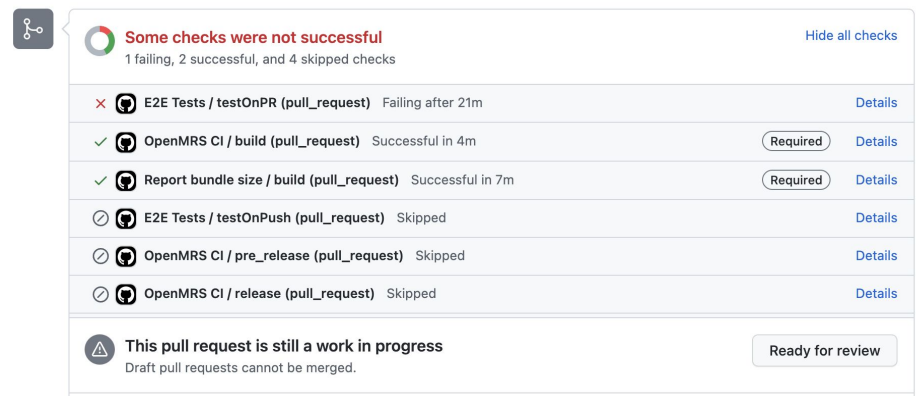
E2E test CI integration

A PR that ensure that everything works as before

A PR that breaks something existing

GSoC mentoring

Google Summer of Code

Hi Anjula Samarasinghe,

Thank you for dedicating your time to mentor Randila Premarathne's GSoC project.

You can now visit your dashboard on the GSoC program site to submit your Midterm Evaluation of your contributor. Be sure to submit the Evaluation before July 14, 2023.

If you will be unable to submit the evaluation of your contributor between July 10, 2023 and July 14, 2023 be sure to ask another mentor or an Org Admin to complete the evaluation for you during this evaluation period. Evaluation questions are available here.

Best,

GSoC Program Admins

https://summerofcode.withgoogle.com

For any questions, please contact gsoc-support@google.com. Replies to this message go to an unmonitored mailbox.

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Extending E2E test coverage project
Primary mentor

Google Summer of Code

Hi Anjula Samarasinghe,

Thank you for dedicating your time to mentor Ayush_Mishra's GSoC project.

You can now visit your dashboard on the GSoC program site to submit your Midterm Evaluation of your contributor. Be sure to submit the Evaluation before July 14, 2023.

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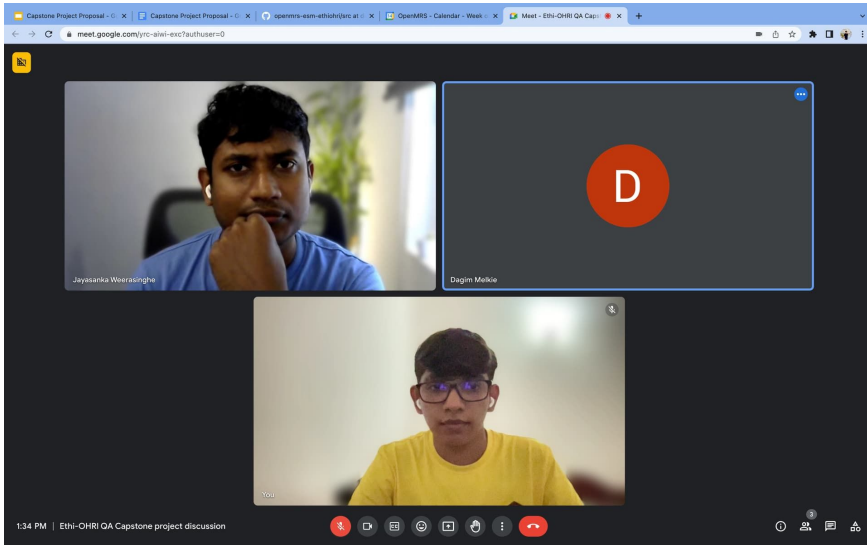
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Component test coverage project
Secondary mentor

Capstone project proposal discussion

Project discussion with Ethiohri team

OpenMRS - 2023

Fellowship Capstone project

Streamlining Test Automation Processes for Ethiohri

The goal of this project is to integrate automated testing into the development process, focusing on implementing unit, integration, and end-to-end (e2e) tests. By doing so, it aims to streamline the testing workflow and establish a robust testing framework for Ethiohri, enhancing the overall quality and efficiency of their software development.

Ethiohri   OpenMRS MEDICAL RECORD SYSTEM

Project presentation

Organized Epics

Cohort Builder E2E Coverage Epic

Form Builder E2E Coverage Epic

What's Next

- Keep improving the test coverage and look for more strategies to improve the implementation
- Continue to implement tests for both OpenMRS and implementers
- Load and performance testing

Final Reflections

Enjoyed various aspects of the program, including the opportunity to present at the Mini Community Meeting and the engagement with GSoC proposals and mentoring.

Had the opportunity to work on impactful projects, collaborate with mentors and contributors, and gain valuable insights into the open-source development community.

Contributions

Code

- 6 Repositories - 22 PRs
  - Patient management - 4 PRs
  - Form Builder - 9 PRs
  - Cohort Builder - 2 PRs
  - ESM Core - 1 PR
  - QA framework - 3 PRs
  - Ethiohri ESM - 3 PRs
- 30+ Issues created

Blog Posts

https://talk.openmrs.org/t/my-openmrs-fellowship-journey-anjula-samarasinghe/38687/

Just like that the openMRS fellowship begins

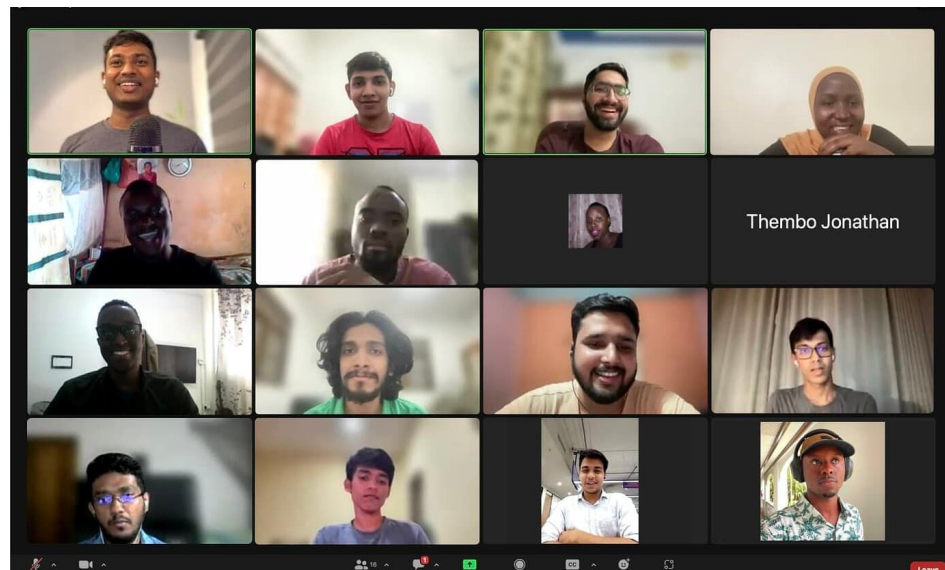OpenMRS Fellowship: A Journey of Growth and Impact

Resources

E2E tests
Capstone project proposal presentation
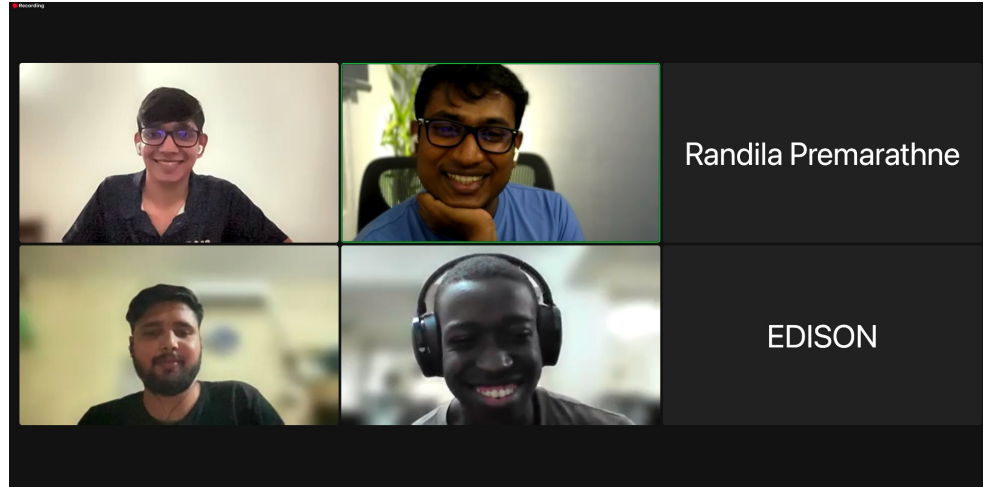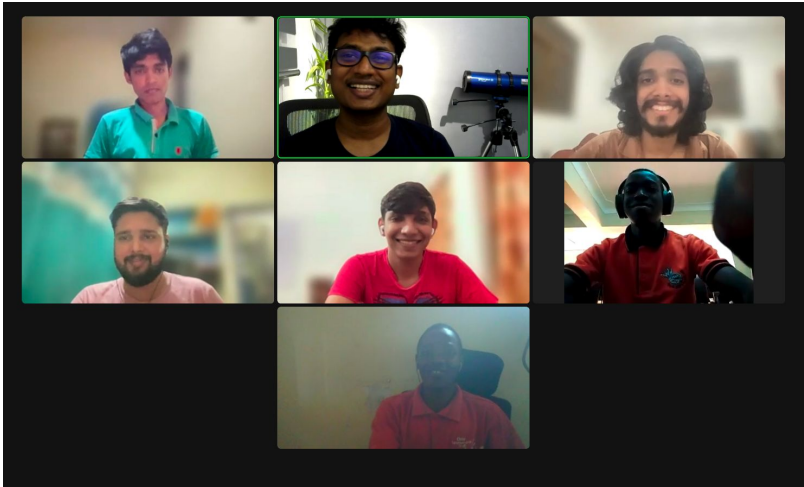Capstone project proposal

Some memories

Mini community meeting

GSoC Mentor mentee call

Some memories

QA Squad Calls

Thank you OpenMRS!