The Open Mainframe Project

Vision: The mainframe is an active, integrated, and essential part of modern enterprise IT, consumable by mainstream developers and users, and driven by a vibrant open source community.

Mission: To achieve the vision of the Open Mainframe Project by...

- **Setting a high bar for application development on the mainframe** through documentation, API development, and a security-first approach.
- **Showcase the mainframe of today** to both the mainframe ecosystem as well as the broad enterprise IT community.
- **Enable the mainframe to be more consumable by developers** with a transparent experience in leveraging the value propositions of the mainframe.
- **Ensure the mainframe aligns well in the changing enterprise IT landscape** of cloud-native and DevOps.
Mentorship Program Overview

Mentees apply to work on specific projects that are participating in the current round of mentorships (stay tuned for the next round!)

The Open Mainframe Project funds mentees to complete projects during the LFX Mentorship terms.

Upon successful completion of the mentorship, mentees are invited to present at an industry conference. The Open Mainframe Project provides a stipend for selected mentees.
Mentorship Requirements

- Be at least 18 years old by the time the mentorship program starts.
- Be eligible to work in the country and jurisdiction where you will be participating in the mentorship program.

Full requirements for LFX mentorships outlined at [https://docs.linuxfoundation.org/lfx/mentorship/mentees](https://docs.linuxfoundation.org/lfx/mentorship/mentees)

For Open Mainframe Project mentorships, **you don't necessarily need to know about mainframes or open source**, but some experience with the programming language used in the project will increase your chances of being selected for the program.
Program timeline

- Mentorship applications typically open a few months before the term, applications are open for 4 weeks, and mentees are notified a couple weeks before the term begins.
- Mentorship duration - three months (12 weeks)
  - Week 1: Mentorship program begins with the initial work assignments.
  - End of Week 6: Midterm mentee evaluations due and first stipend payment (50% of the total amount) approvals.
  - End of Week 12: Final mentee evaluations and mentee feedback/blog submission due, second and second stipend payment (50% of the total amount) approvals.
- Subject to change, see [https://docs.linuxfoundation.org/lfx/mentorship/mentorship-program-timelines](https://docs.linuxfoundation.org/lfx/mentorship/mentorship-program-timelines) for latest details (seasons in northern hemisphere lingo – sorry!)
Basic UI improvements
Text explaining what the website is and...
  - Linking to the Open Mainframe Project
  - Adding a Contribute link to GitHub repo (footer?)
Support for z/OS
Backend JSON file for open source z/OS applications
Improvements to FAQ, including how to Bring Your Own JSON file back ends
Improvements to Documentation
Stretch goal: API for querying JSON back ends
Stretch goal: Backend JSON files for Debian, openSUSE, ClefOS, etc
Stretch goal: CI/CD (by OMP)
Stretch goal: Hosted instance of tool (by OMP)
Expectations

• Work with your mentor to develop a plan for work over the 12 weeks, and publish a design document for the mentorship committee to review
• Regular meetings with your mentor
• Weekly progress reports with constant progress towards milestones
Weekly Status Reports

Status Reports Folder

Weekly/bi-weekly status reports go into this folder

Status Report Template: https://github.com/openmainframeproject-internship/resources/blob/master/f

<table>
<thead>
<tr>
<th>Document</th>
<th>Description</th>
<th>Document Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Plan</td>
<td>Overall week by week plan of milestones</td>
<td>project_plan.md</td>
</tr>
<tr>
<td>Week 1 Status Report</td>
<td>Initial UI change and Renaming tasks</td>
<td>Week01.md</td>
</tr>
<tr>
<td>Week 2 Status Report</td>
<td>Improvising main repo and initialising data repo</td>
<td>Week02.md</td>
</tr>
<tr>
<td>Week 3 Status Report</td>
<td>Git submodules and auto pulling PDS data</td>
<td>Week03.md</td>
</tr>
<tr>
<td>Week 4 Status Report</td>
<td>z/OS data import done, Debian pkg initialising</td>
<td>Week04.md</td>
</tr>
<tr>
<td>Week 5 Status Report</td>
<td>Added description feature</td>
<td>Week05.md</td>
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<tr>
<td>Week 6 Status Report</td>
<td>Debian Import done, more UI fixations</td>
<td>Week06.md</td>
</tr>
<tr>
<td>Week 7 Status Report</td>
<td>CeifOS data import done, automate script added</td>
<td>Week07.md</td>
</tr>
<tr>
<td>Week 8 Status Report</td>
<td>UI updates with FAQ improvements</td>
<td>Week08.md</td>
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<tr>
<td>Week 9 Status Report</td>
<td>SUSE data lists added, test CI/CD done</td>
<td>Week09.md</td>
</tr>
<tr>
<td>Week 10 Status Report</td>
<td>Fedora data added, updated distro script</td>
<td>Week10.md</td>
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<tr>
<td>Week 11 Status Report</td>
<td>Successful test deployment with deploy repo</td>
<td>Week11.md</td>
</tr>
<tr>
<td>Week 12 Status Report</td>
<td>Debian Bullseye sources integrated</td>
<td>Week12.md</td>
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Software Discovery Tool Weekly Report: Week 4

21-25 June 2021

Project Members
- Elizabeth K. Joseph (Mentor)
- Indranil Mandal (Student)
- Divya Goswami (Student)

Accomplishments for the week
- Identified Issue 5
- Initial distro data for z/OS done! PR 6
- Identified Issue 7, solved with PR 8 and will be more diligent about special characters in data files
- Identified Issue 36
- Documenting usage of git submodules and link completed in PR 37
- Identified Issue 39
- Preliminary import work for Debian JSON file support
- Working example for z/OS!
What you gain

- Mentorship from an industry professional who can connect you with others
- Experience developing a real software project used in the industry
- Learning how to collaborate on an open source project including public interactions on mailing lists, chat, and in code reviews
- All code going into the open, you can reference it on your CV!
- Opportunities to speak and write...
Speaking Opportunities

**Speakers**

**Krushnal Patel**  
Student, Delhi Technological University  
Krushnal is a pre-final year engineering student at Delhi Technological University with a major in Computer Engineering. He is part of the OMP mentorship of batch 2021. His fields of interest lie in Web Development and Robotics.

**Tye Gienz**  
Intern, The Linux Foundation  
I’m an intern for the Open Mainframe Education Project, and a senior at Robert Morris University. I will be graduating Fall 2021.

**Innconent Onwukanjo**  
Mentee, Polymcephaly  
I am a DevOps Engineer with 3+ years of experience and a specialty in Automation and Infrastructure. I also build Backend Web applications using the Laravel framework. I contributed to the Polymcephaly Project during the Summer mentorship.

**Indranil Mandal**  
Mentee '21, Open Mainframe Project

**Divya Goswami**  
DevSecOps, Trel  
I am an independent security researcher with a DevOps background. I love debugging and disassembling code rather than writing code. I'm an OpenSource contributor, previously into OWASP, currently working with Open Mainframe Project, a collaboration between The Linux Foundation and... Read More →

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**Looking for Open Source Software on Z? Meet the Software Discovery Tool!**

**Elizabeth K. Joseph**  
Developer Advocate  
IBM

**Divya Goswami**  
Student & IBM Z Ambassador  
Heritage Institute of Technology

15-Sept 11:30 AM
Software Discovery Tool: A Mentee Perspective

By Open Mainframe Project | July 26, 2021 | Blog, Mentorship, Software Discovery Tool

Written by Divya Goswami, Open Mainframe Project Summer Mentee

Are you one of the folks who finds searching packages across multiple platforms an ordeal? If that’s true then we at Open Mainframe Projects Software Discovery Tool team, which includes my fellow mentee, Indranil Mandal and mentor Elizabeth Joseph, are thrilled to say — we just made your life easier!

Software Discovery Tool (SDT) is a tool that helps you search for open source software available on IBM z/OS or other platforms. We also have integrated automation tools in our repository to automatically generate a search from driver/IA (runtime), DASD/F and many other IBM tools and frameworks.

By Indranil Mandal, 3 months ago

Hello open source community at the IBM Z, we are thrilled to announce that the Software Discovery Tool will soon be released on a production server. The project is an initiative of Elizabeth K. Joseph as part of the Open Mainframe Mentorship Program, along with mentees Indranil Mandal and Divya Goswami.

Our main goal was to collect and make packages from the IBM Z Architecture available for search, including open source software available for z/OS.

https://www.openmainframeproject.org/blog/2021/07/28/software-discovery-tool-a-mentee-perspective by Divya Goswami
https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/indranil-mandal/2021/08/14/software-discovery-tool-contribute by Indranil Mandal
Other Resources

Mentorship Program Website: https://www.openmainframeproject.org/projects/mentorship-program

Mentorship overview in GitHub: https://github.com/openmainframeproject-internship/resources/blob/master/README.md

Mentee guide: https://github.com/openmainframeproject-internship/resources/blob/master/guides/mentee.md