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Improve Firefox Screenshots

Deadline is April 30, 2021 at 4pm UTC to [record your contributions and create a final application.](https://www.outreachy.org/outreachy-may-2021-internship-round/communities/firefox/improve-firefox-screenshots/contributions/)

[Record Contibutions and Apply to This Project](https://www.outreachy.org/outreachy-may-2021-internship-round/communities/firefox/improve-firefox-screenshots/contributions/)

Detailed Project Information

Project Skills

**Skill description**

**Impact on intern selection**

**Experience Level**

Javascript

Preferred

4

Version Control

Nice to have

3

System Requirements

A reasonably powerful laptop or desktop computer to build Firefox, and enough bandwidth to download the Firefox source code at least once. One of the first steps of contributing to this project is to get a working copy of the Firefox source code built on your development machine. If you are successful at this stage, then you have enough resources to work on the project.

Project Description

Improve Firefox Screenshots

Screenshots is a core feature of the desktop browser that helps differentiate Firefox from its competitors. With screenshots, a user selects an area of their webpage and can easily copy or download the snippet as a .png file. Using the clipboard and the downloads panel, Screenshots can become a part of an efficient and productive user workflow within the browser.

The project focuses on code integration, strengthening the supported features, building out a test suite, and addressing long-standing bugs within the component. This code was originally supported as an extension outside of the codebase and is currently treated as a systems add-on. For maintainability purposes, screenshots should instead become a standard browser component. It is currently untested and would greatly benefit from increased test coverage. A previous version of screenshots utilized a server to host images, which is an idea worth exploring if we want to support something similar in the future.

Screenshots is a popular featurer that is used by millions of users, and all contributions to this project will be shipped in Firefox and made available to all users.

#### Internship Tasks

To get familiar with the code, the applicant will start by diving into each file and removing instances of dead code. Next, they will pick up bugs from the issue tracker. For example, an applicant can work on a bug that cuts off full page screenshots on certain websites. They will also take ownershiip of the component's testing infrastructure and build that out from the ground up. When the code is in a stronger state, we can look at making architectual changes by moving this away from a systems add-on and into a browser component.

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OUTREACHY POSSIBLE PROJECT

1.Debian - 2 interns

Debian is a volunteer-driven project building "the Universal Operating System", a 100% free and open source distribution, based on the Linux, FreeBSD and Hurd kernels, for all devices, ranging from mobile phones, personal computers, to mainframes and distributed cluster.

1a.Debian project #1

Create a yarn plugin to resolve node modules installed via apt

Skill description

Impact on intern selection

Experience Level

Node.js

Required

Debian Packaging

Preferred

1b.Debian Continuous Integration Platform Improvements

Skill description

Impact on intern selection

Experience Level

Git

Preferred

HTML

Preferred

Ruby

Preferred

2.InterMine - 1 intern

InterMine integrates biological data sources and makes it easy to query, visualise, and analyse the data via a graphical user interface or via APIs in Python, R, Perl, and more.

2a.InterMine project #1

Create InterMine query builder library

Skill description

Impact on intern selection

Experience Level

React.js

Required

Front-end web development

Required

User interfaces

Preferred

2b InterMine project #3

Write interaction tests for webapp showing biological data

Skill description

Impact on intern selection

Experience Level

HTML

Preferred

Cypress

Preferred

JavaScript

Preferred

3. OCaml - 5 interns

OCaml is a (high-level, typed, functional) programming language. The OCaml community contributes to the implementation of the language, as well as the surrounding ecosystem of tools and libraries.

3a.OCaml project #3

Improve the ocaml.org website

Skill description

Impact on intern selection

Experience Level

CSS

Preferred

HTML

Nice to have

OCaml

Nice to have

4 ODK-X - 1 intern

ODK-X lets you build custom apps to gather, manage, and visualize your data just as well in the field as you do in the office. From cold chain management to longitudinal patient tracking to geographic data collection on mosquito releases, ODK-X helps you build your custom data management app.

4a.ODK-X project #4

New Date Prompts for ODK-X Survey

Skill description

Impact on intern selection

Experience Level

CSS

Required

Javascript

Required

JSON

Nice to have

HTML

Nice to have

5.Public Lab - 1 intern

Public Lab is a community where you can learn how to investigate environmental concerns. Using inexpensive DIY techniques, we seek to change how people see the world in environmental, social, and political terms. We are an open network of community organizers, educators, technologists and researchers working to create low cost solutions for monitoring air, water and land.

5a.Public Lab project #1

Expand and refine Tag/topic system of PublicLab.org

Skill description

Impact on intern selection

Experience Level

JavaScript

Preferred

Ruby on Rails

Preferred

5b.Public Lab project #2

Improve education-related usability and functionality on PublicLab.org

Skill description

Impact on intern selection

Experience Level

JavaScript

Preferred

Ruby on Rails

Preferred

6.Tor Project - 1 intern

The Tor Project is a US 501(c)(3) non-profit organization advancing human rights and freedoms by creating and deploying free and open source anonymity and privacy technologies, supporting their unrestricted availability and use, and furthering their scientific and popular understanding.

6a.Tor Project project #1

Help Tor Project support our users

Skill description

Impact on intern selection

Experience Level

Written communication in English

Required

GitHub workflow: fork-branch-PR

Required

Technical Writer

7.UNICEF Innovation - 1 intern

Innovation at UNICEF is about doing new things to solve problems and improve the lives of children around the world. It is about matching today’s challenges with tomorrow’s solutions.

7a.UNICEF Innovation project #1

Create map visualizations of digital public good developments and implementations

Skill description

Impact on intern selection

Experience Level

React

Preferred

JSON

Preferred

Javascript

Preferred

Data visualization

Nice to have

7b.UNICEF Innovation project #2

Extend the usability of the Juniper Toolset

Skill description

Impact on intern selection

Experience Level

Node JS

Required

React JS

Preferred

Web development

Preferred

8.Wikimedia - 4 interns

Wikimedia is a global movement whose mission is to bring free educational content to the world, via Wikipedia and other projects. Help improve our technical backstage!

8a.Wikimedia project #1

Build a tool for analyzing and visualizing reader navigation on wikipedia

Skill description

Impact on intern selection

Experience Level

Python programming

Required

Research

Nice to have

HTML

Nice to have

Jupyter notebooks

Nice to have

8b.Wikimedia project #2

Create notebook based tutorials that help users access and work with data on Wikimedia projects

Skill description

Impact on intern selection

Experience Level

Python 3

Required

JSON

Preferred

SQL

Preferred

Research

Nice to have

Technical documentation

Nice to have

Jupyter notebooks

Nice to have

8c.Wikimedia project #3

Synchronising Wikidata and Wikipedias using pywikibot

Skill description

Impact on intern selection

Experience Level

Python

Preferred

Wikidata

Nice to have