

Ocaml: Improve error reporting in existing ppxlib-based PPXs

-by Soh Marrious

Introduction

Project Name: Improve error reporting in existing ppxlib-based PPXs

Tuning Organization: The Ocaml community

Sub-organization: [Ocaml-ppx](#)

Name of Applicant: Soh Marrious

University : University of Buea (UB), Cameroon

Time Zone: GMT + 1 West Africa/Douala

Email : sohmarrious@gmail.comGitHub : [@marrious11](#)Linked-In : <https://linkedin.com/in/soh-marrious-2a26611a9>[see project description here](#)**Project Timeline Due May 4th, 2023**

This week-by-week timeline provides a rough guideline of how the project will be done.

Week	Deliverables
Pre-accepted intern list Seeking community guidance	Out of my own interest I continue working on the concepts I did not quite understand during the contribution period, while maximizing my experience level with the Ocaml community.
Week 1 (April 03-10, 2023)	<ul style="list-style-type: none"> ● Explain a good understanding of the Ocaml Languages. This includes: <ol style="list-style-type: none"> 1. Studying the syntax 2. Data structures 3. Some algorithms that are commonly used in Ocaml 4. Explore the various Libraries 5. And the framework for writing PPXs in Ocaml(ppxlib) ● Have a good understanding of software development principles and practices such as; <ol style="list-style-type: none"> 1. Version control 2. Testing 3. And debugging ● Engaging with maintainers of the Ocaml community
Week 2 (April 11-17, 2023)	<ul style="list-style-type: none"> ● Extension of week 1... ● Exploring Ocaml documentation ● Taking online tutorials ● Engaging with the Ocaml community via discord forum. ● Look into contributing to existing Ocaml projects, perhaps, the error reporting in existing ppxlib-based PPXs or any <i>good-first issue</i>

Week 3 (April 18- 25 April 10, 2023)	<ul style="list-style-type: none"> ● Complete some of the set up that are still missing ● Foster a deep understanding of the PPX ecosystem. ● Visit The metaprogramming documentation ● Engaging with other mentors , applicants who have time to discuss on issues, and other community members. ● Visit other parts of the ppxlib manual to study information that are more specific to ppxlib ● The general explanation of the different phases of rewriting, as well as the guide on handling errors, especially the migration part! ● code generation and destruction, will be useful when contributing to PPXs, and to help me understand the code, but not directly to understand the issue.
Week 4 (April 26- May 02, 2023)	<ul style="list-style-type: none"> ● Extension of week 3... ● Reach out to my mentor to evaluate progress of my works ● Seek additional guidance ● Wrapping up concepts not understood ● Test my technical level experience in understanding of software engineering standard methodologies such as; <ol style="list-style-type: none"> 1. -code maintainability, 2. -code review, automated testing, 3. -and continuous integration. ● revisiting different types of programming languages, including: <ol style="list-style-type: none"> 1. -procedural languages (C, C++, and Java); 2. -scripting languages (Python), If need be! <p>Otherwise;</p> <ul style="list-style-type: none"> ● Break !!!!
Week 5 (May 03-04, 2023)	<ul style="list-style-type: none"> ● Waiting list for accepted interns announced
Pre-Outreachy period community bonding	<ul style="list-style-type: none"> ● <Plan point 1> ● <Plan point 2>
May 29, 2023 to Aug. 25, 2023	<ul style="list-style-type: none"> ● Internships period
Post-Outreachy period finishing touches	<plan>