

Add Python extension support to LOEclipse

Name and Contact Information

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Overview

LOEclipse is an eclipse plugin that supports development and debugging of extensions for LibreOffice. Extensions helps improve LibreOffice's functionality and ease-of-use for the user. Supporting other languages for writing extensions help encourages developers to develop useful extensions for the community.

Problem Statement

LOEclipse allows for extension development in Java, but it would be helpful to be able to make extensions in other languages, such as Python. The purpose of this project is to add support for Python extensions to LOEclipse.

Objectives

What has to be done as a part of the project are:

- Add Python extension support to LOEclipse
- improve LOEclipse with new features needed by LibreOffice
- Code review for LOEclipse
- actively participate with the community in IRC and mailing lists
- Interact with the community for ideas and opinions on new features

Technical Details

To add python extension support for LOEclipse, I will look into how LOEclipse is implemented through its provided documentation and code, fixing bugs or issues with LOEclipse along the way. By actively participating with LibreOffice, I can improve LOEclipse with new features. I will be involved in code review for LOEclipse to help not only the reviewee's code, but to help build upon my understanding from the code reviewers feedback.

Biographical Information

I am a third year computer systems engineering student at Carleton University. I have worked on the open source project, Jenkins Job Builder (JJB), for a year, and still continually contribute as a core reviewer to the project. I have programming experience in mainly Python, with lesser knowledge in Java. I have contributed over 87 commits and I am familiar with working on an open source project [1].

Expected Problems

I have basic Java programming knowledge. I expect that I will need to brush up on my Java knowledge before I can work effectively on the project. I will watch tutorials and read documentation on how to use Java more effectively.

Schedule

Week -3 (May 8 - 12)

- Familiarize myself with LOEclipse
- familiarize myself with Java

Week -2 (May 15 - 19)

- Work on bugs/issues
- respond to Code reviews

Week -1 (May 22 - 26)

- Work on bugs/issues
- respond to Code reviews

Week 0 (May 29 - June 2)

- Work on bugs/issues
- respond to Code reviews

Week 1 (June 5 - 9)

- Work on bugs/issues
- Investigate python extension support to LOEclipse
- respond to Code reviews

Week 2 (June 12 - 16)

- Work on bugs/issues
- Investigate/Add python extension support
- respond to Code reviews

Week 3 (June 19 - 23)

- Midterm exam this week, little to no work

Week 4 (June 26 - 30)

- Work on bugs/issues
- Continue adding python extension support to LOEclipse
- respond to Code reviews

Week 5 (July 3 - July 7)

- Midterm evaluations
- Respond to feedback

Week 6 (July 10 - 14)

- Reach out to LibreOffice community for new features that are needed
- Continue adding python extension support to LOEclipse

Week 7 (July 17 - 21)

- evaluate on how to approach new feature
- Continue adding python extension support to LOEclipse

Week 8 (July 24 - 28)

- Work on bugs/issues
- Continue adding python extension support to LOEclipse

Week 9 (July 31 - August 4)

- Work on bugs/issues
- Continue adding python extension support to LOEclipse
- respond to Code reviews

Week 10 (August 7 - 11)

- Work on bugs/issues
- Continue adding python extension support to LOEclipse
- respond to Code reviews

Week 11 (August 14 - 18)

- wrap up project
- respond to feedback

Week 12 (Aug 21 - 25)

- Final exam this week, little to no work

Week 13 (Aug 28 - 29)

- Final evaluation date
- respond to final incoming feedbacks

Commits made to LOEclipse Project

Commit	Status	Work log	URL
Update ar01s02 doc	Merged	Reorder path to jar files to be in alphabetical order.	https://github.com/LibreOffice/loecclipse/pull/56

References

[1]

http://stackalytics.com/?user_id=kienha9922&company=%2aindependent&module=jenkins-job-builder&project_type=openstack&release=all&metric=commits