**Software paper for submission to MEDSCI 736 University of Auckland**

To complete this template, please replace the blue text with your own. The paper has three main sections: (1) Overview; (2) Availability; (3) Reuse potential.

Please submit the completed paper to: f.kubke@auckland.ac.nz

**(1) Overview**

Title

“Obsisdian seeker”.

Paper Authors

1. *Escalante, Luis M.*

2. O’Neale, Dion.

Paper Author Roles and Affiliations

1. Development Team, University of Auckland

2. Product Owner, University of Auckland dept of Statistics and Physic.

Abstract

Obsidian seeker is a software tool that reuquieres only problem

implemented

stored,

reuse potential.

Keywords

keyword 1; keyword 2; *etc.*

Keywords should make it easy to identify who and what the software will be useful for.

Introduction

An overview of the software, how it was produced, and the research for which it has been used, including references to relevant research articles. A short comparison with software which implements similar functionality should be included in this section. Please refer to <http://openresearchsoftware.metajnl.com/articles/> for exemplars.

**Implementation and architecture**

How the software was implemented, with details of the architecture where relevant. Use of relevant diagrams is appropriate. Please also describe any variants and associated implementation differences.

**Quality control**

Detail the level of testing that has been carried out on the code (e.g. unit, functional, load etc.), and in which environments. If not already included in the software documentation, provide details of how a user could quickly understand if the software is working (e.g. providing examples of running the software with sample input and output data).

**Test driven development**

**(2) Availability**

***Operating system***

Please include minimum version compatibility.

***Programming language***

Please include minimum version compatibility.

***Additional system requirements***

E.g. memory, disk space, processor, input devices, output devices.

***Dependencies***

E.g. libraries, frameworks, incl. minimum version compatibility.

***List of contributors***

Please list anyone who helped to create the software (who may also not be an author of this paper), including their roles and affiliations.

***Software location:***

***Archive*** (e.g. institutional repository, general repository) (required – please see instructions on journal website for depositing archive copy of software in a suitable repository)

***Name:*** The name of the archive

***Persistent identifier:*** e.g. DOI, handle, PURL, etc.

***Licence:*** Open license under which the software is licensed

***Publisher:*** Name of the person who deposited the software

***Version published:***The version number of the software archived

***Date published:*** dd/mm/yy

**Code repository** (e.g. SourceForge, GitHub etc.) (required)

***Name:*** The name of the code repository

***Identifier:*** The identifier (or URI) used by the repository

***Licence:*** Open license under which the software is licensed

***Date published:*** dd/mm/yy

**Emulation environment** (if appropriate)

***Name:*** The name of the emulation environment

***Identifier:*** The identifier (or URI) used by the emulator

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***Date published:*** dd/mm/yy

***Language***

Language of repository, software and supporting files (including links to documentation)

**(3) Reuse potential**

Please describe in as much detail as possible the ways in which the software could be reused by other researchers both within and outside of your field. This should include the use cases for the software, and also details of how the software might be modified or extended (including how contributors should contact you) if appropriate. Also you must include details of what support mechanisms are in place for this software (even if there is no support).

**Acknowledgements**

Please add any relevant acknowledgements to anyone else who supported the project in which the software was created, but did not work directly on the software itself.

**Funding statement**

If the software resulted from funded research please give the funder and grant number.

**Competing interests**

If any of the authors have any competing interests then these must be declared. The authors’ initials should be used to denote differing competing interests. For example: “BH has minority shares in [company name], which part funded the research grant for this project. All other authors have no competing interests."

If there are no competing interests, please add the statement:

“The authors declare that they have no competing interests.”

**References**

Please enter references in the Harvard style and include a DOI where available, citing them in the text with a number in square brackets, e.g.

[1] Piwowar, H A 2011 Who Shares? Who Doesn't? Factors Associated with Openly Archiving Raw Research Data. *PLoS ONE* 6(7): e18657. DOI: http://dx.doi.org/10.1371/journal.pone.0018657.

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The final components

are the test that is function

the documentation

the software and

the fucntions that is doing what it must do/

as some as ypu finish go to components ask for review from other guys.