

A RESTFul Solution to Manage Reference Lists

Proposta de Projeto

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Objectives

In the process of writing an essay, a report, a dissertation, or any other form of scientific or academic writing, thoughts or ideas are typically built around the ideas of other authors. The process of including such references is key to allow readers to distinguish the ideas or thoughts from the author himself from those that are contributions from other sources. Furthermore, in scientific or academic writing is essential to use references to prove or sustain statements included in such documents.

A citation or reference style dictates how the information is ordered, formatted, and punctuated. Each academic discipline will have its own preferred format, and every journal, conference, or book may also have a set of predefined styles. For example:

- APA (American Psychological Association) is used by Education, Psychology, and Sciences;
- MLA (Modern Language Association) style is used by the Humanities;
- Chicago/Turabian style is generally used by Business, History, and the Fine Arts.

This work will focus on the following: 1) The revision of state-of-the-art solutions related to the topic at hand; 2) Implementation of a set of RESTful Web services to manage, import, and export references. These references should be formatted with a well-established citation style (e.g., IEEE style or any other chosen by the user); 3) Implementation of a set of RESTful Web services to manage journal metrics (e.g., impact factors and quartiles) [1-3]; and 4) Development of a Web-based user interface.

Workplan

- T1 Initial requirements specification (0,5 months);
- T2 A state-of-the-art on the management of reference lists (0.5 months);
- **T3** Requirements analysis (1 month);
- **T4** Design and implementation (1 month);
- **T5** Testing and evaluation (0.5 months);
- **T6** Report writing [4] (0,5 months).

Schedule

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T1 (0.5 months)
                    T4 (0.5 months) T6 (0.5 months)
                       | T2 (0.5 months) T3 (month) | T5 (0.5 months)|
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Academic Prerequisites

Intermediate knowledge about Python, Flask, or any other Web-based technology or platform.

Evaluation Elements to Deliver

In addition to the report, the student must deliver the code and documentation developed under the scope of this project.

Expected Outcomes

- * An overview of solutions employed to manage reference lists;
- * A RESTFul solution to manage references and journal metrics;
- * A Web-based user interface;
- * A Project report [4].

Bibliography

- 1 William H. Walters. Citation-Based Journal Rankings: Key Questions, Metrics, and Data Sources. in IEEE Access, vol. 5, pp. 22036-22053, 2017.
- 2 PlumX Metrics, https://plumanalytics.com/learn/about-metrics/. Last access: February 13, 2020.
- 3 AScimago Journal & Country Rank, https://www.scimagojr.com/. Last access: February 13, 2020.
- 4 C. Collberg and S. Kobourov. Self-plagiarism in Computer Science. Communications of the ACM. 48(4): 88 94, 2005.