

Project Title

Rayyan - Smart Filtering of Research Literature

Project Description:

Rayyan (rayyan.qcri.org) is a screening, assessment, and analysis web and mobile app for the production of systematic reviews and other reviews. Rayyan expedites the initial screening of abstracts and titles using a process of semi-automation but with a clear objective of incorporating a level of usability, which is compatible with the skillset of a broad cross-section of potential users. A key focus in building Rayyan was to be intuitive in use, user-friendly at all skill levels and with an inbuilt user-defined/self-customizable interface. Rayyan is now serving more than 25k users all over the world with more than 14k users visiting the app on a daily basis. Most of these users are medical professionals, faculty, grad students, and other researchers.

We are looking for motivated interns who want to have an impact on a real system and help thousands of users. Interns may work in any of the following tasks.

Task 1: Enhancing Reference Formats accepted by Rayyan

Rayyan accepts multiple reference formats as input such as EndNote export, RIS, and BIB. We want to dig into the different errors that our users are reporting. The intern will determine how to address these errors, fix existing or write new parsers, and give more meaningful error messages to users. Rayyan parsers are open sources and can be found here https://github.com/rayyanqcri/ref_parsers and <https://github.com/rayyanqcri/rayyan-formats>.

Task 2: Revamping Rayyan User Interface

Rayyan's GUI is starting to get old and need a modern and sleek look and feel. We are looking for motivated interns to come up with a new design for different Rayyan pages and implement it.

Duties/Activities:

- Get familiar with Rayyan
- Understand the problem we're addressing
- Come up with a design document
- Implement the selected solution following software engineering best practices

Required Skills: Good analytical skills. Good command of a programming language (Python, Ruby, or Javascript).

Learning Opportunities: Developing coding skills in a production system with a large user base and learn about DevOps.

Expected Team Size: 3~5

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