

Project Title

Rayyan - A Qatar flagship web/mobile app that serves 11k+ researchers worldwide

Project Description:

Rayyan currently serves more than 11k users around the world working on systematic reviews as well as other types of reviews. To learn more about Rayyan see the paper [Rayyan — a web and mobile app for systematic reviews](#). Systematic Reviews (2016) 5:210, DOI: 10.1186/s13643-016-0384-4.

Rayyan is continuously being improved and this requires working on several issues. For this summer, we would like to get intern to work on:

- **Rayyan guest pages** – Adding analytics on the kiosk page (<https://rayyan.qcri.org/kiosk>), better rendering and collection of testimonial (<https://rayyan.qcri.org/testimonials>); This task require a knowledge of JavaScript, JQuery, HTML, and a little bit of ruby.
- **Unified design for Rayyan pages** – Rayyan pages may look at little bit outdated vis-à-vis new trends in web site design. In this task, we need to design and implement a new unified theme for the different Rayyan pages including guest, landing, dashboard, and workbench. This task requires good web design skill and HTML/CSS. Knowledge of JavaScript and Ruby is a plus.
- **Improving reference formats accepted by Rayyan** – The main input from Rayyan's users is a file containing references in some specific formats (bibtex, RIS, etc.). There are few issues where Rayyan is not properly capturing all of the information in these files. This task requires looking at all the tickets from users and errors returned by Rayyan that are related to file formats, come up with a strategy to fix these different issues, and implement the fixes inside Rayyan. This task requires good problem solving and knowledge of Ruby.
- Full text annotation – Rayyan users can upload full text (PDF) to their reviews. We would like to add the ability to annotate these full texts, that is the user will be able to highlight a piece of text and attach to it a piece of text. The annotations should be searchable.
- Full text search – Add the ability to search the full texts (PDF) that the user uploads to Rayyan.
- Manual de-deduplication – Rayyan automatically detects potential duplicates and users will have to go through them and resolve them. Since the deduplication algorithm is not perfect, it may miss some duplicates. We would like to offer the ability for our users to manually identifying these missed duplicates.

Duties/Activities:

- Understand what Rayyan is about
- Have a running local instance of Rayyan
- Design the specs for the selected task with the mentors

- Implement and test the assigned task

References and resources:

- Paper on Rayyan - Mourad Ouzzani, Hossam Hammady, Zbys Fedorowicz, and Ahmed Elmagarmid. [Rayyan — a web and mobile app for systematic reviews](#). Systematic Reviews (2016) 5:210, DOI: 10.1186/s13643-016-0384-4. [Download](#)
- Tutorials and Guides ([Rayyan Channel](#), <http://libraryguides.mcgill.ca/rayyan>, <http://dirtymodelling.com/>)

Required Skills:

- Good problem-solving skills
- Good programming skills
- Knowledge of JavaScript, JQuery, HTML, CSS, Ruby, and Ruby on Rails (depending on the task)

Preferred Intern Academic Level:

Junior or Senior undergrad or if you have good programming skills

Learning Opportunities:

- Work on a flagship Qatar project
- Have an impact on the lives of thousands of people
- Learn proper software engineering processes

Expected Team Size: 5**Mentors:**

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