

## Ginger Engineering Test Project

The Ginger team always wants to keep informed of new developments in the field of computing, data science and psychiatry. <https://arxiv.org> is a repository of freely accessible scholarly work that is updated with the latest and greatest from scientists all around the world, but it doesn't have the friendliest interface.

**Your project is to create a web app with a page that links to 2 other pages:**

1. The first page will display a list of new articles containing information relevant to psychiatry, therapy, data science or machine learning. Clicking an article opens a page that displays a short summary of the article's content and names of all the authors. Clicking on an author opens a page that displays the author's name and the titles of articles they've submitted to arXiv over the past 6 months.
2. The second page should display a list of authors and how many articles they've written over the last 6 months, sorted with the newest, most prolific ones first. Clicking on an author should open the author page mentioned above.

The project should give us a general idea of how you structure and test your code.

**BONUS:** Allow users to register and login to star their favorite articles and authors.

### Technical Notes

- Your app should be written in either:
  - The Django / Python framework. <https://www.djangoproject.com/>
  - Or a Node.js framework (such as Sails), please use either JavaScript or TypeScript
- You should use the arXiv bulk data access API to obtain the data you need: <http://export.arxiv.org/api>
- If 6 months of data is not available, your app should be able to incrementally gather the data over time in order to eventually have at least 6 months of data.
- We expect your system to make requests to the real arXiv API (please do not hardcode the responses. :))
- We expect you to spend no more than 4 hours. We understand that you may not have time to fully complete or polish the project. We prefer you focus on quality over quantity.

### Evaluation Criteria

To guide you, here are some of the important criteria we'll use in assessing your work:

- Does the site meet the specification?
- Can you justify your design choices?
  - For example: how did you decide between the frontend or backend option?
- Are there comments in the code indicating where those choices were made?
- Does the code look well formatted and consistent?
- Does the code separate concerns? Is there a clear distinction between models and views?

- Does the code incorporate any automated testing?
  - If not:
    - Can you show where tests would go?
    - Can you explain what tests would be for/how they would work?

### **Completion**

When you're finished submit your solution to [engineering@ginger.io](mailto:engineering@ginger.io) - please cc the member of our HR team that you're working with.

Submit the following:

- A zip file or link to Github containing the project source code.