# Research Graph

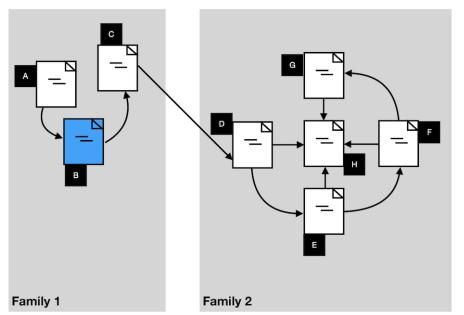
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# Vision





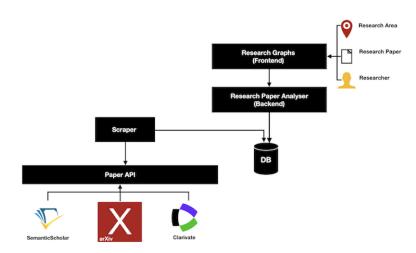
## Demo



Link:http://localhost:3000

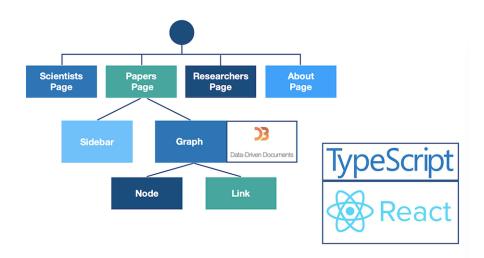
### Architecture





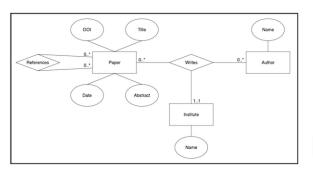
#### Frontend





## Database

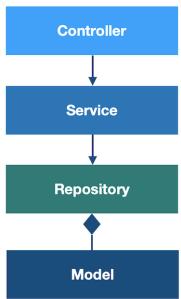






# Backend





#### Database Interaction

from family



```
with recursive family(from_paper, from_title, from_abstract, from_year, to_paper, to_title, to_abstract, to_year) as (
    select pf.*, pt.*
    from paper pf, reference r, paper pt
    where pf.id == r.from_paper and pf.title == '" + title + "' and pt.id == r.to_paper

UNION ALL

select f.to_paper as from_paper, f.to_title as from_title, f.to_abstract as from_abstract, f.to_year as from_year, pt.id as
    to_paper, pt.title as to_title, pt.abstract as to_abstract, pt.year as to_year
    from family f, reference r, paper pt
    where f.to_paper == r.from_paper and pt.id == r.to_paper)
```

# Responsiblities



Andreas Zimmerer	•	Frontend (Setup, Pages, Components)
Alvaro Silva		Scraper Positioning Algorithm
Fiona Guerin		Backend(Setup, Basic Classes, Graph) Documentation(Readme, Presentation)

#### Lessons Learned: Plan



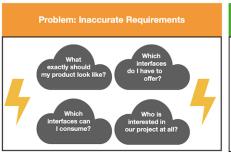


#### **Solution: Precise Planning**

- 1. Define goal and intermediate goals exactly.
- 2. Create a timetable for each intermediate target.
- 3. Allocate the tasks of an intermediate goal equally to the team.
- 4. Monitor progress.

### Lessons Learned: Communicate





**Solution: Communicate** 

- Meet regularly
- Communicate what you are working on
- Define interfaces in advance

## Github



 $\verb|https://github.com/Jibbow/research-paper-graph|\\$ 

# Thank you



