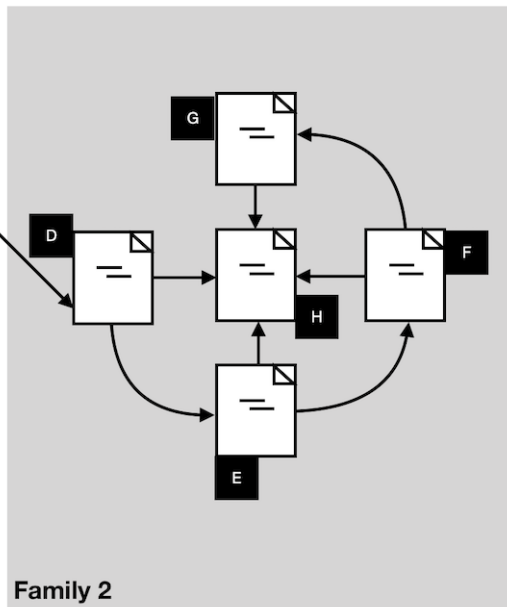
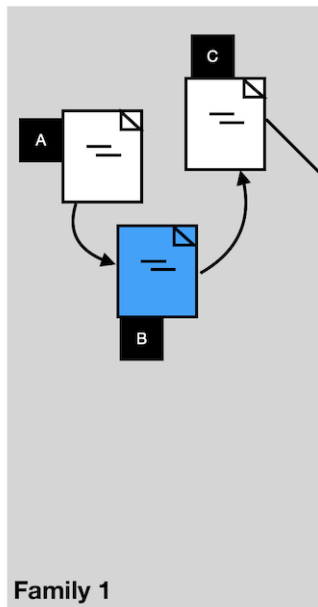


Research Graph

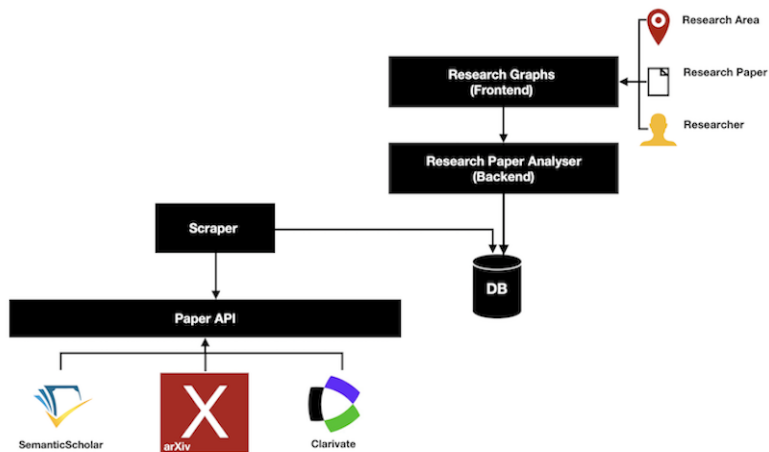
Fiona Guerin, Alvaro Silva, Andreas Zimmerer

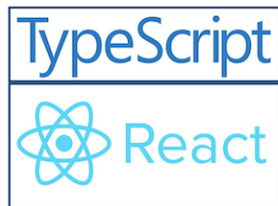
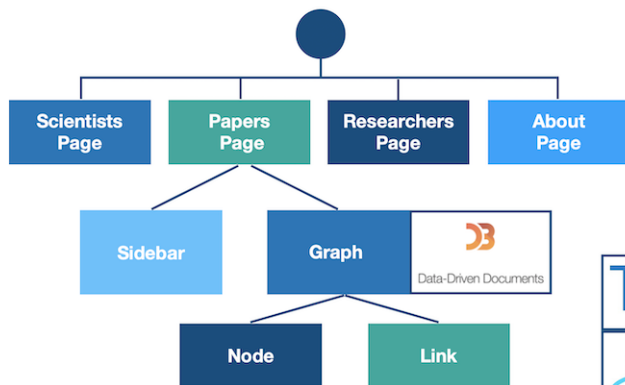
Technical University of Munich

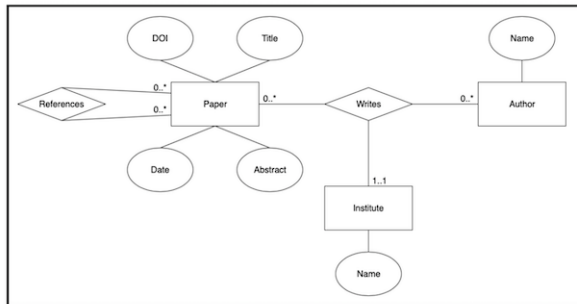
17 December 2019



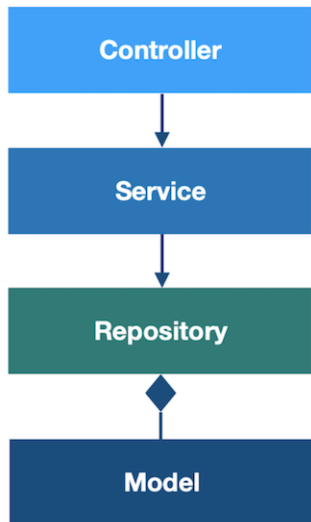
Link:`http://localhost:3000`







PostgreSQL



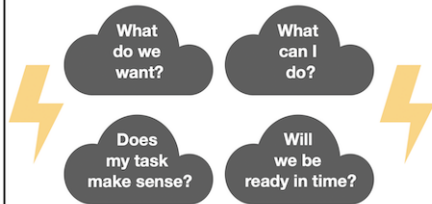
Database Interaction

```
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)  
  
select *  
from family
```


Responsibilities

Andreas Zimmerer	<ul style="list-style-type: none">• Frontend (Setup, Pages, Components)
Alvaro Silva	<ul style="list-style-type: none">• Scraper• Positioning Algorithm
Fiona Guerin	<ul style="list-style-type: none">• Backend(Setup, Basic Classes, Graph)• Documentation(Readme, Presentation)

Problem: Poor Vision



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

Problem: Inaccurate Requirements



What exactly should my product look like?

Which interfaces do I have to offer?

Which interfaces can I consume?

Who is interested in our project at all?

Solution: Communicate

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

`https://github.com/Jibbow/research-paper-graph`

Thank you

