

# Project Pitch: Being Human in STEM

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Client: Professor Jaswal

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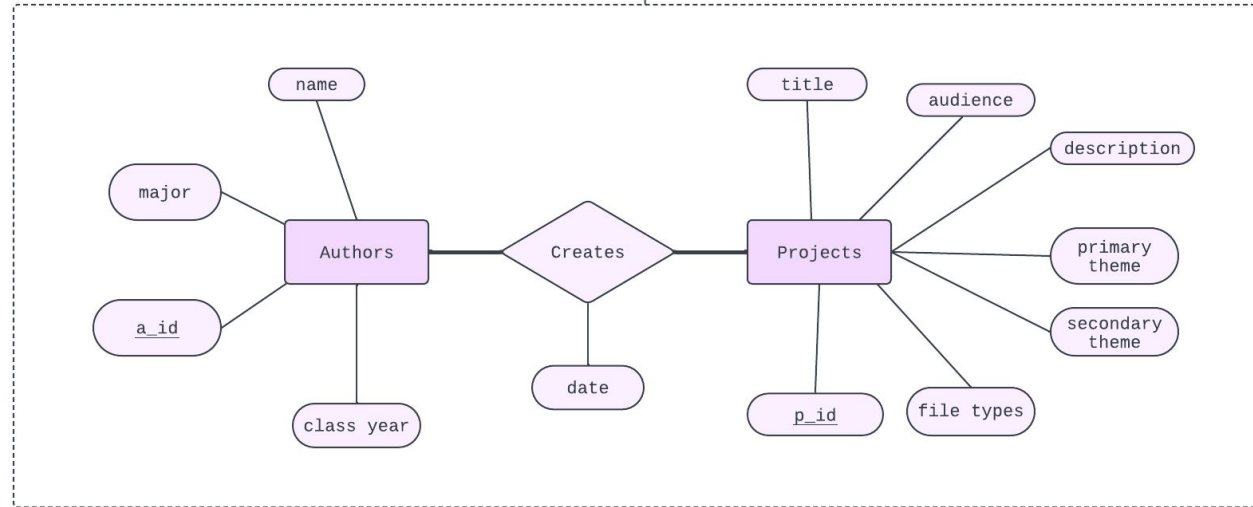
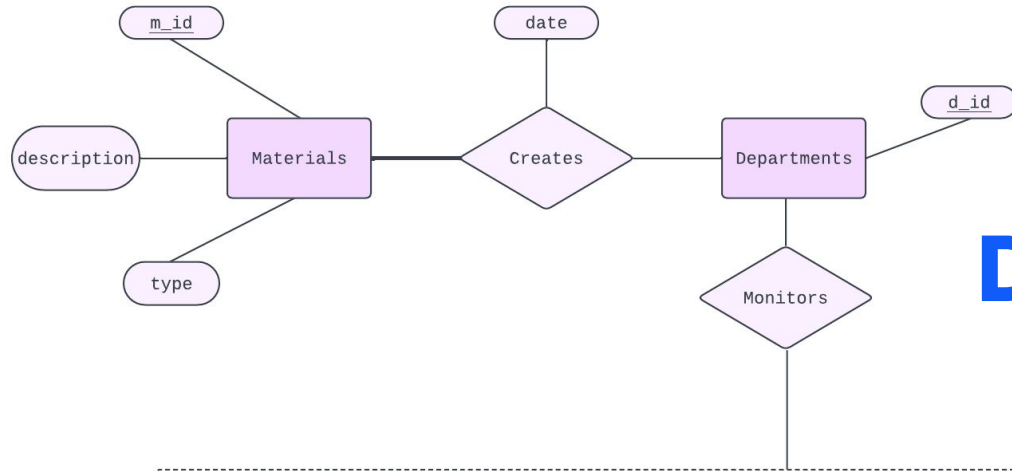
# Database Description

- **Being Human in STEM (HSTEM):** investigates issues of racism and equity in STEM through community engagement
- **Goals:**
  - Organize the existing data in a more accessible manner
  - Information searchable using tags
  - “Living” hub; adaptable and easily modifiable
  - Final Product: a web application for our HSTEM clients
  - Database audience: Amherst students/faculty & beyond

# Current State of Data

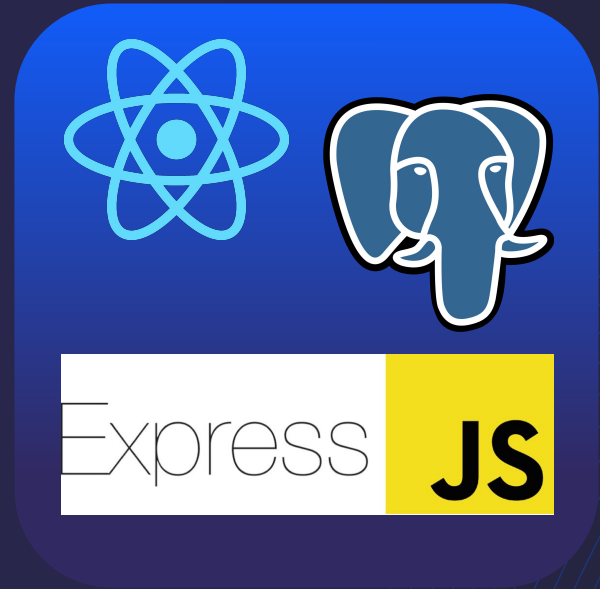
- Google Drive folders
  - Based on a specific iteration of HSTEM (e.g. year and semester)
  - Variety of file types
    - PDFs, JPG images, Google Slide files, Google Document files, Excel spreadsheets, MP4 video recordings, etc.
  - Current hub contained within Excel spreadsheets
    - Master sheet w/ [All HSTEM Projects](#)
- **Data organization not very effective; hard to manage and access**

# ER Diagram



# Software & Deliverables

- Deliverable: web application
- **Front-end:** JavaScript-based React
- **Back-end:** ExpressJS + PostgreSQL
- **Hosted on:** Amazon Web Services (AWS)
  
- **Functionalities:** (Keyword) Search + CRUD,
- **Limitations:** scalability, complexity, applicable to all file types



# Further Questions & Next Steps



## Further Questions

- Implementation of user permissions and authentication
- Making items more accessible in the HSTEM database



## Next Steps

- Short-term: learn technologies involved
- Long-term: populate database + create web application

**Any Questions  
or Feedback?**