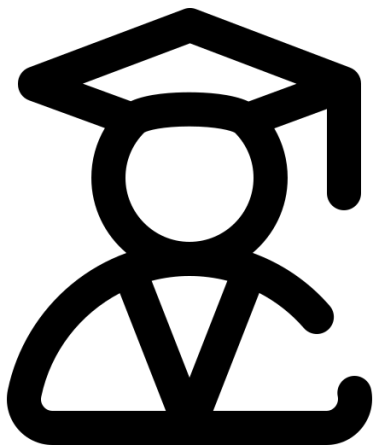


US Colleges and Universities IDB

Software Lab Final Project

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.



Members and Contributions

- Harrison Berrier
 - Early creation of jinja templates
 - Model searching functionality
 - Collection of Google Maps images for city instances on base page
- Mohit Gupta
 - University data collection, model instance pages, pagination for model pages
 - Python unit testing
 - Implementing factory method design pattern
- Nikhil Jalla
 - City data ingestion and data scraping
 - GUI testing
 - Initial creation of city instance page
- Silas Strawn
 - GCP deploy, MongoDB connection, & initial mongoengine schemas
 - Ingested university images, major images, & initial major data
 - Model sorting & filtering

Demo

Self-critique

What we did well

- Worked well as a team
- Created thousands of instances
- Developed for the user
- Modular design

What we could do better

- Improve time management
- Collect more data for each instance
- Add more interactive features
- Design before implementing

What we learned

- How to build an application from ground up using MongoDB, Flask, and Bootstrap
- How to programmatically collect data from APIs and store them in a database
- How to define and use database models using MongoEngine
- How to refactor code and apply design patterns
- How to work on a software dev team
- How to plan and track progress on a project through user stories and issues