

Campus Insider Phase 2 Contributions
COS 457/ COS 557
Professor Behrooz Mansouri

Team Members:

- Nathaniel Serrano
- Benjamin Franklin
- Ahmad Mouhsen

Contributions:

- Nathaniel Serrano
 - Implemented the schema for the User entity along with its constraints. In addition, worked with ChatGPT to generate lists of accessibility- and equipment-related tags for the rating_equipment and rating_accessibility tables. These lists of tags were put in large enums that act as check constraints for the tags.
 - user_entity.sql
 - Implemented the following procedures:
 - SearchRoomsByType
 - SearchRoomsBySize
 - SearchRoomsByNumber
 - Wrote the web scraping scripts for USM buildings, rooms, and study rooms across all campuses, along with a basic cleaning/normalizing script for building/room data.
 - Building_scraper.py
 - Building_cleaner.py
 - Study_room_scraper.py
 - Wrote the data insertion scripts for inserting data regarding USM buildings, rooms, and study rooms
 - Insert_rooms.py
 - Insert_study_rooms.py
 - Wrote a Python script to get the largest existing length of a value for each field of a JSON file to validate that data was within limits set by the schema.
 - Data_validation.py
 - Wrote Phase 2's README file on GitHub, including describing the Phase 2 directory structure, database launching instructions, web scraping details, and basic task delegation.

- Benjamin Franklin
 - Created the schema for the university, campus, location, room, building, non-building, and rating tag relations
 - campusInsider.sql (university, campus, location, room, building, and non-building tables)
 - tags.sql
 - Wrote a web scraper with the aid of ChatGPT to scrape most of the colleges in the United States and normalize them into a JSON file with their state, name, and Wikipedia URL
 - college_scraper.py
 - US_colleges.json
 - Optimized queries used by procedures such as SearchRoomsByType, searchRoomsBySize, and SearchRoomsByNumber via indexing
 - QueryOptimization.pdf
 - indices.sql
 - Edited the video to combine and fit all of our talking points
 - CampusInsiderVid.mp4
- Ahmad Mouhsen
 - Create the schema for ratings.
 - Combined all the schemas into a single sql file called Combined Campus Insider and fixed any minor errors.
 - Create the Campus Insider Stored Procedures and Functions Outline.pdf as a guide for all the functions and procedures that are used.
 - Created the Functions.sql
 - Created GetUniversityIDByNameAndState
 - Created the Procedures.sql and checked all the procedures to make sure they work
 - CreateUniversity
 - RemoveUniversity
 - AddCampus
 - DeleteCampus
 - CreateNonBuildingLocation
 - CreateBuildingLocation

- CreateRoom
 - DeleteLocation
 - CreateUser
 - DeleteUser
 - AddRating
 - DeleteRating
 - ShowUniversity
 - SearchWithEquipt
 - SearchWithAccessTag
 - SearchWithRating
 - RoomRequest
- Created a room_requests schema in the Combined Campus Insider sql for users to request room additions.