National Park Service

Salvador Avelar-Lopez & Siddhant Abhijit

The project final presentation and demo will take place during the last lab session of the semester (**Week 15 December 4**). Each team will have 10 minutes to give a short presentation of the project and to show a working demo with the most important features. You should allow some time for questions.

The presentation should contain the following:

- System description (what application did you build)
- Use-case description (what are the most important interactions between the user and the application)
- E/R diagram
- Relational schema
- Implementation details (what database did you use; how did you build the user interface; etc.)

For the demo, try to come up with a usage scenario that shows the most important features of the application. Have sufficient data on which the queries can run and produce interesting results, while the modification operations should be meaningful. Try to organize your presentation in such a way that it fits in the allocated time slot and make it interesting. As a suggestion, the presentation should take 3 minutes, the demo 5 minutes, while the rest is dedicated to questions. Part of the evaluation will be based on the conciseness and time-effectiveness of your presentation.

The following equally-divided criteria will be used to score the final project:

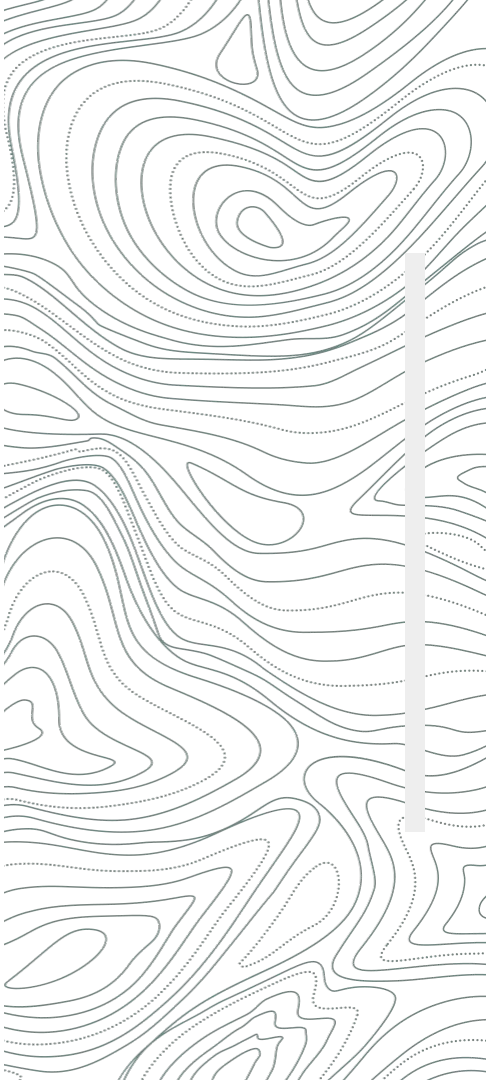
- Complexity of the database
- Usability of the application
- Organization of the presentation
- Relevance of the demo

NPS.gov

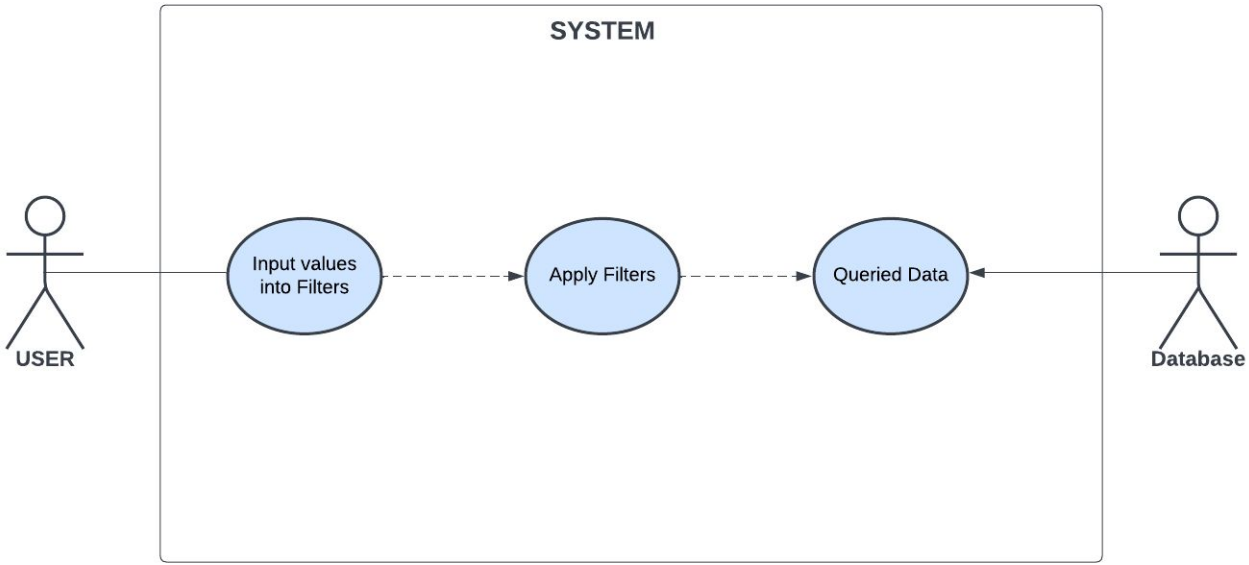
- There are hundreds of national parks spread throughout the United States, each with its own set of information required to plan a trip.

- The current NPS (National Park Service) website requires you to go to each specific park to see its stats, requiring a lot of effort to plan a trip.

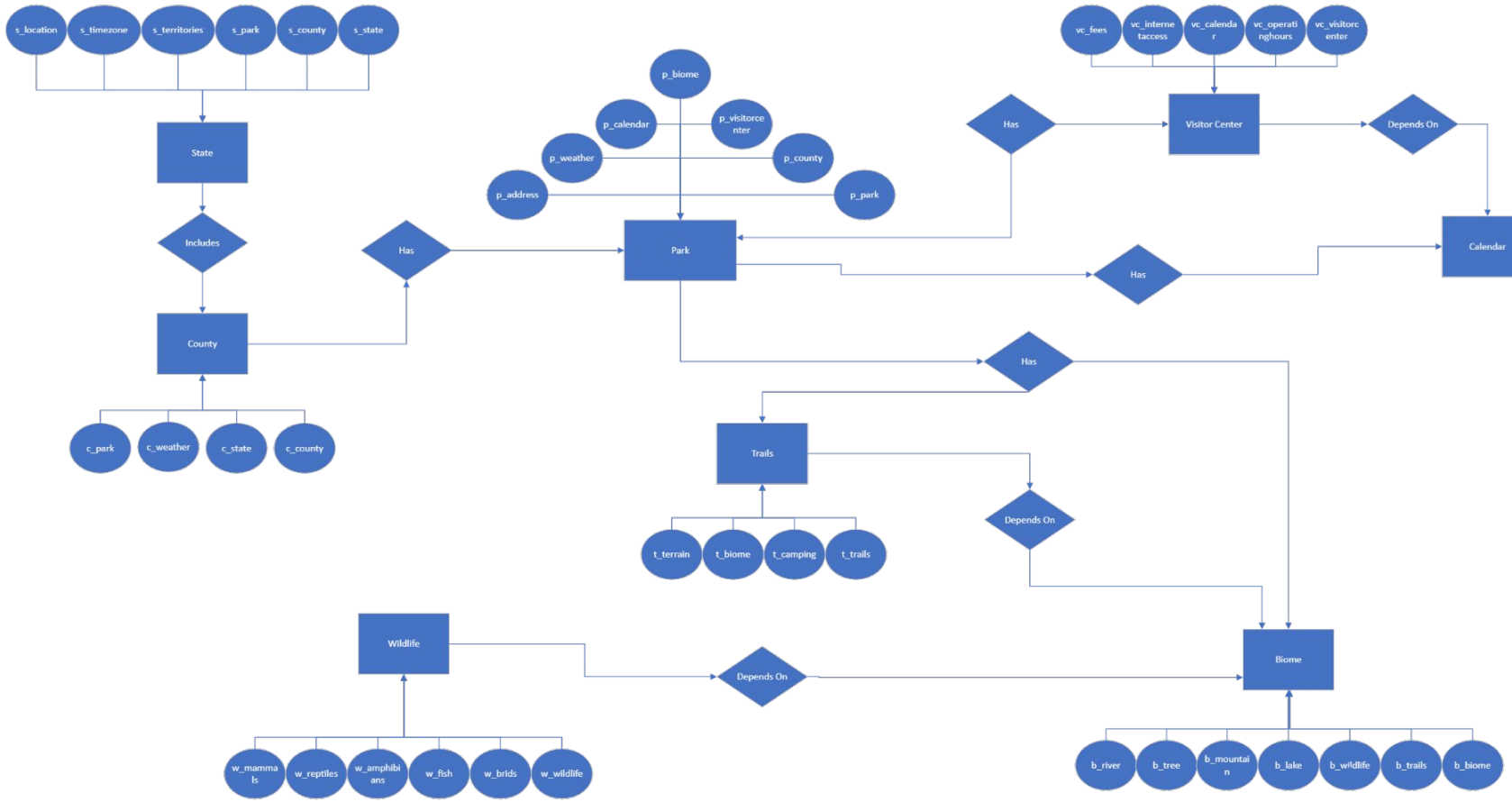
- Created a Web App to allow users to filter parks quickly and easily



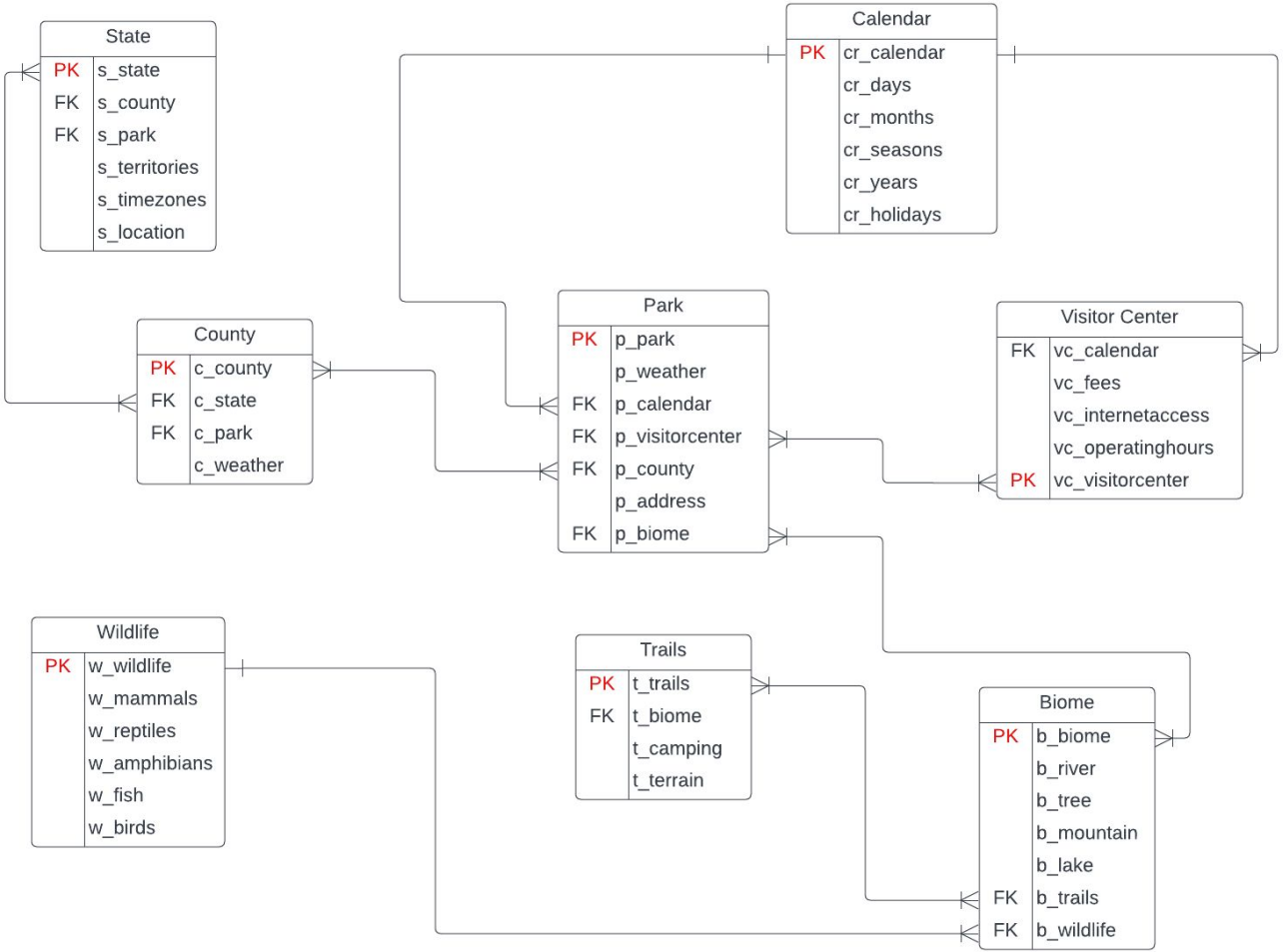
UML Use Case Diagram



ER Diagram


s_location
s_timezone
s_territories
s_park
s_county
s_state
State
Includes
County
c_park
c_weather
c_state
c_county
Has
p_biome
p_calendar
p_visitorcenter
p_weather
p_county
p_address
p_park
Park
Has
vc_fees
vc_internetaccess
vc_calendar
vc_operatinghours
vc_visitorcenter
Visitor Center
Depends On
Calendar
cr_days
cr_months
cr_seasons
cr_years
cr_holidays
cr_calendar
Has
Has
Trails
t_terrain
t_biome
t_camping
t_trails
Depends On
Wildlife
Depends On
Biome
w_mammals
w_reptiles
w_amphibians
w_fish
w_brids
w_wildlife
b_river
b_tree
b_mountain
b_lake
b_wildlife
b_trails
b_biome

Relational Schema



Development Stack

Front-End:

- HTML/CSS/JS 
- Flask 

Back End:

- Python 

Database:

- MySQL Database 
- XAMPP 

DEMO

Thank You

Questions?