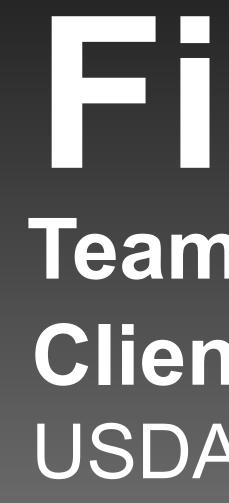
NORTHERN ARIZONA

School of Informatics, Computing, and Cyber Systems



What is the Problem?

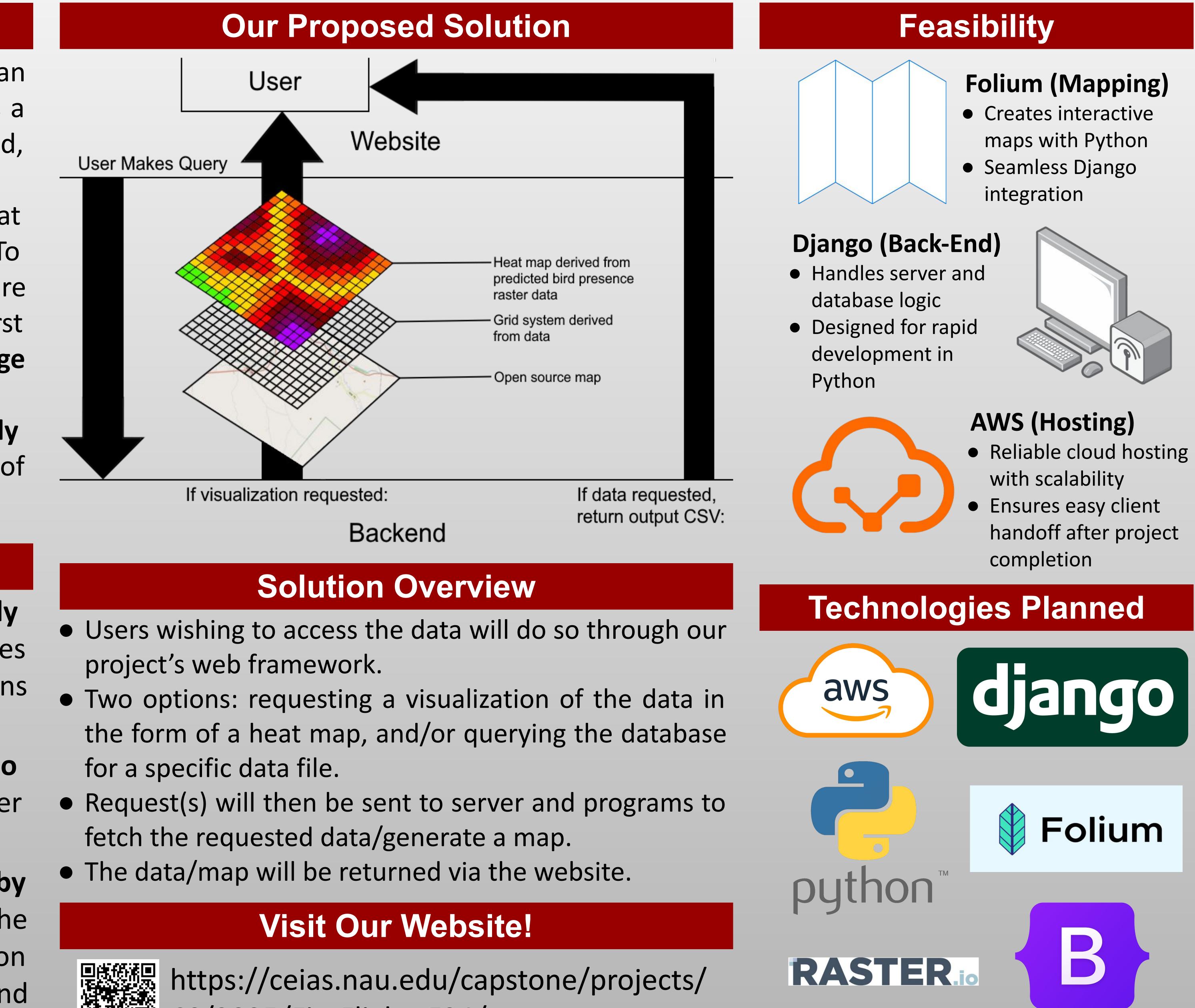
- Climate change has become an increasing issue in recent years. As a result, wildfire rates have increased, ravaging ecosystems.
- Birds are an **indicator species** that reflect an ecosystem's health. To determine which course of actions are best to take, scientists need to first look at how bird populations change in response to wildfires.
- Currently, there is no user-friendly tool that helps visualize the impact of wildfires on local bird populations.

Plans, Goals, Stretch Goals

- user-friendly • We are creating a visualization that tool makes bird populations predictions of based on years of gathered data.
- Officials can use this tool to estimate ecosystem recovery after wildfire or other natural disasters.
- This tool will eventually be **used by US Forest Service stations** across the Western US to allow prediction analysis on an individual basis and timeframe for each end user.

FireFight

Clients: Dr. Jamie Sanderlin, Dr. Ana Miller-ter Kuile, Dr. Kiona Ogle, USDA, US Forest Service, Northern Arizona University





https://ceias.nau.edu/cap CS/2025/FireFlight_F24/

Team: Alyssa Ortiz (Leader), Payton Watts, Tyler Chapp, Andrew Ortega



