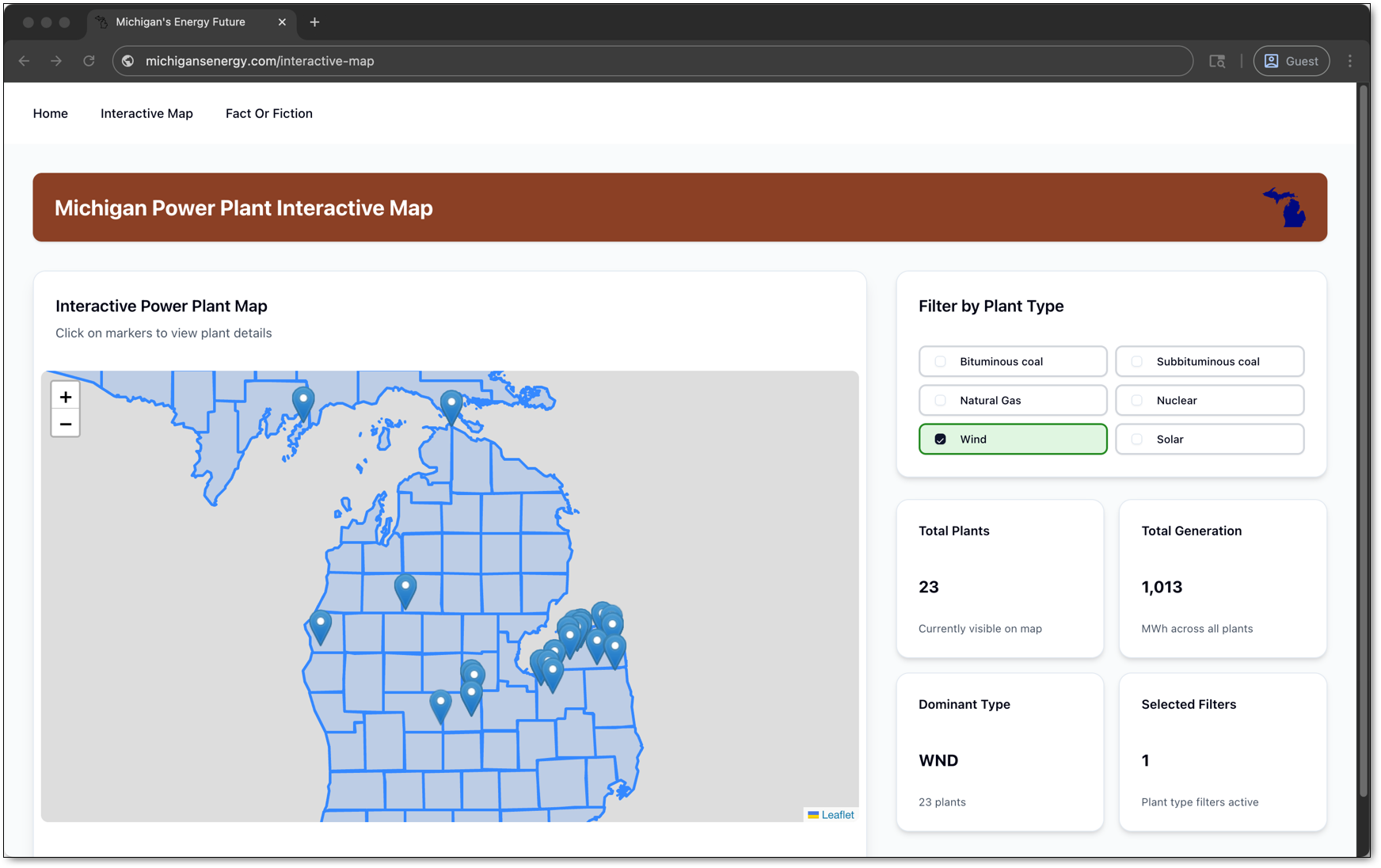
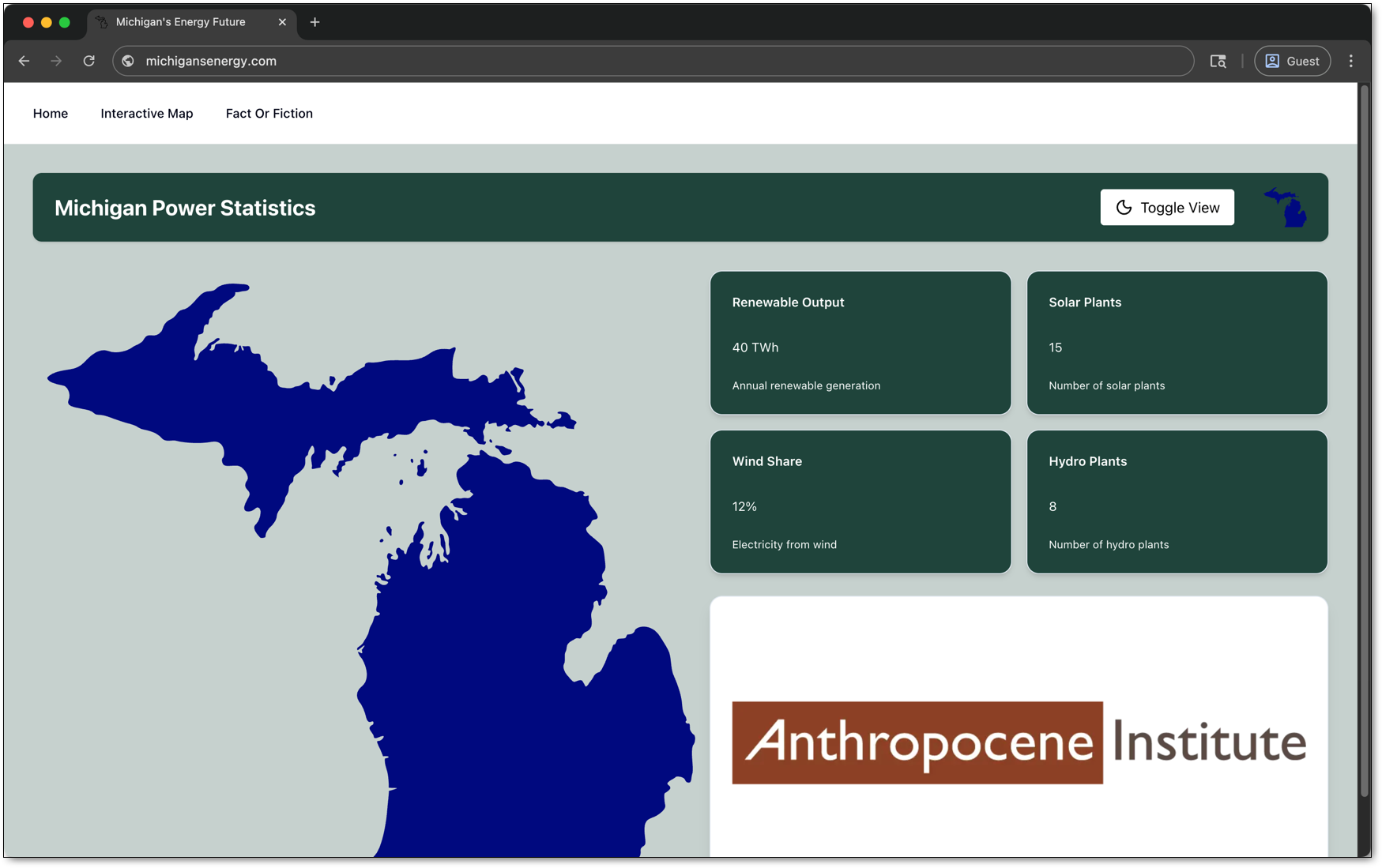
Design Day Booklet Team Page





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Anthropocene Institute

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Founded by Carl Page, The Anthropocene Institute bridges investors, policymakers and institutions with the goal of combating the climate emergency. The Anthropocene Institute has risen to the forefront of both green technology and education by promoting clean and sustainable energy.

Investment in renewable energy is a crucial first step in reversing the damage done to the environment. However, not all solutions are equal. Despite wind and solar power being the most popular green energy sources, they do not scale well and aren’t reliable enough to replace fossil fuels. Despite its poor public perception, nuclear power is the most feasible clean energy source currently at our disposal.

Nuclear power generation is extremely efficient, highly scalable, and far cheaper than other generation methods over time. Nuclear power is also incredibly safe, having caused not even a single death within the last decade. Public opinion, however, remains skeptical.

The Modeling Michigan’s Energy Future website contains an interactive map which allows users to view the different power plants within the state of Michigan. Users can interact with the plants and change the source of the power they generate before observing the estimated effects of their changes in real time.   
 Beyond this, the Modeling Michigan’s Energy Future website also provides the user with current statistics relating to Michigan’s actual electricity usage, generation, and prices. The user can also view projections of Michigan’s power supply and grid pollution where all fossil fuel plants have been transitioned to nuclear plants.

The front end is built using Next.js with React, while the back end utilizes Flask with Python. PostgreSQL provides data storage with panda’s handling data processing, and interactive mapping is implemented through leaflet while charting uses Recharts and Shadcn.

CSE498 | 8:00 a.m. – Noon Computer Science and Engineering, Third Floor | 3200/3300 Hallway

Anthropocene Institute

Modeling Michigan’s Energy Future