Project Title

Studio Project: Climate Data Visualisation

Team Members: Suhas Srinivasa Bharadwaj & Parth patel

Course: COSC3106

Project Overview

- Our project addresses the challenge of making complex climate data accessible and useful. The goal is to build a user-friendly, data-driven website tailored to specific personas and their needs.

User Groups & Needs

- • Sarah: Eco-conscious resident – wants bushfire alerts
- • Liam: Student – needs simple data for projects
- • Daniel: Data Science student – requires region comparison
- • Priya: Sustainability student – wants trend summaries

Key Features by Level

- Level 1: Static info pages
- Level 2: Filtered visualizations (e.g., region & metric)
- Level 3: Bookmarking, Alerts, Interactive Graphs

Wireframes Comparison

Improvements made after feedback:

- Clearer layout
- Color-coded indicators
- Glossary tooltips
- Enhanced graphs and tabs

Usability Testing Summary

- Conducted outside class
- Received feedback on navigation clarity and data readability
- Changes: Enhanced layout, improved filter dropdowns

Nielsen Heuristics

- Visibility of system status
- Recognition over recall
- Consistency & standards
- User control and freedom

Design Patterns

- Navigation: Tab menu, breadcrumb trail
- Layout: Card layout, collapsible sections
- Interaction: Search box, slider filters

ERD & Schema

- Database includes: Users, Alerts, Bookmarks, Metrics
- Relational schema designed for quick access to historical and region-based data

Tech Stack & GitHub

- Python (Flask), HTML/CSS, SQLite
- GitHub Repo: github.com/Suhasbharadwaj15/s4130368_s4148960-

My website : file:///Users/suhasbharadwaj/Downloads/ClimateAware_Website/index.html

Teamwork & Contributions

- Suhas: User research, wireframes, front-end
- Partner: Database schema, logic programming
- Used GitHub & MS Teams for collaboration

Final Demo

- Website includes Home, Data Dashboard, Bookmarking
- Fully functional with all levels implemented

Thank You

- Questions?