## **Project Development Report**

Our CS 442 Database Systems team website was created to provide an overview of our group, introduce team members, and centralize resources such as links and branding assets. The site is structured with a home section, team profiles, a links page for external resources, and a branding section with downloadable logo files.

### **Development Process**

The foundation of the website was built using **HTML, CSS, and JavaScript**. The HTML provides a semantic structure for content, the CSS styles the site with a consistent desert-themed color palette, and the JavaScript adds interactivity such as:

* A mobile navigation toggle
* Smooth scrolling to sections
* Modal handling
* Automatic year updates in the footer
* SVG logo download functionality

### **Role of AI in Development**

AI had a significant influence on the development process. Specifically:

* **Code Generation**: AI was used to generate portions of the JavaScript logic (e.g., navigation toggle, smooth scrolling, and logo download feature).
* **Layout and Styling Guidance**: AI provided recommendations for page layout, color schemes, and responsive design patterns, which helped accelerate decision-making.
* **Workflow Efficiency**: By using AI to quickly create and refine code snippets, we reduced the time spent on boilerplate coding and were able to focus more on refining user experience and team-specific content.

### **Limitations of AI Usage**

While AI was highly useful in scaffolding the project, it was not a complete replacement for manual coding. Human oversight was necessary to:

* Ensure accessibility
* Align branding and content with team identity
* Correct AI-generated code where syntax or logic needed adjustment

### **Conclusion**

The inclusion of AI in this project streamlined the development process, improved workflow efficiency, and helped structure both the design and technical features of the site. However, critical thinking and manual intervention remained necessary to refine and finalize the implementation.