CMPT272 SFU - Group 9 Final Project
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- Designed and implemented a secure admin login system utilizing MD5 hashing for password storage and validation.
- Developed sorting functionality and confirmation prompts for report deletion, enhancing usability in the reports list.
- Enhanced map interactivity by integrating a Leaflet map feature to dynamically display only markers visible within the current map view, and synchronized the reports list to show corresponding entries.
- Built a responsive details card overlay for the map, enabling users to view and interact with specific reports by clicking on map markers or list items.
- Designed and deployed an informative "About" page showcasing the team and outlining individual contributions to the project.
- Oversaw GitHub version control, ensuring efficient collaboration through pull request management and codebase integrity.

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- Developed an interactive Leaflet map that retrieves data from DOM local storage and enables users to view detailed event information on marker click.
- Managed GitHub version control to facilitate team collaboration, ensuring seamless integration and review through pull request management.
- Implemented functionality for the map to automatically zoom into the appropriate marker when a report is selected.
- Enhanced map usability by dynamically adding markers to reflect newly added reports.
- Coordinated project management by equitably assigning tasks among group members to ensure balanced workload distribution and efficient progress.

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- Built and integrated a dynamic form system with persistent data handling via localStorage, dynamic map points, and automated default field values.
- Implemented robust form validation using Zod to ensure data correctness and reliability, alongside advanced Canadian phone number checks with google-libphonenumber.
- Defined and optimized Data Models and DTOs to streamline frontend integration for across pages.
- Conducted foundational testing to deliver a reliable and user-friendly experience.
- Managed Github Version Control and Pull Requests

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- Developed an interactive map using Leaflet for the report page, enabling users to drop pins and retrieve accurate geographic coordinates for seamless integration into form data submissions.
- Implemented event handling to dynamically display coordinates upon interaction and efficiently managed the data flow.
- Administered GitHub version control, overseeing branch management and pull request reviews to maintain code quality and project progression.
- Ensured the team stayed aligned with project milestones by tracking progress, verifying task completion, and meeting functional requirements.

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- Established the GitHub repository and configured the project environment and architecture to ensure a robust development foundation.
- Designed the homepage UI, incorporating a Leaflet map and an emergency table for a seamless user experience.
- Implemented key features including the emergency table, navigation bar, page routing, and a toggleable light/dark mode for enhanced accessibility.
- Enhanced the emergency table functionality by enabling dynamic updates to local storage and table contents when the "Type" or "Status" fields are modified.
- Oversaw GitHub version control, managing pull requests and ensuring consistent collaboration and code integrity throughout the project lifecycle.