Explore Earthquakes

Project 3 Group 2

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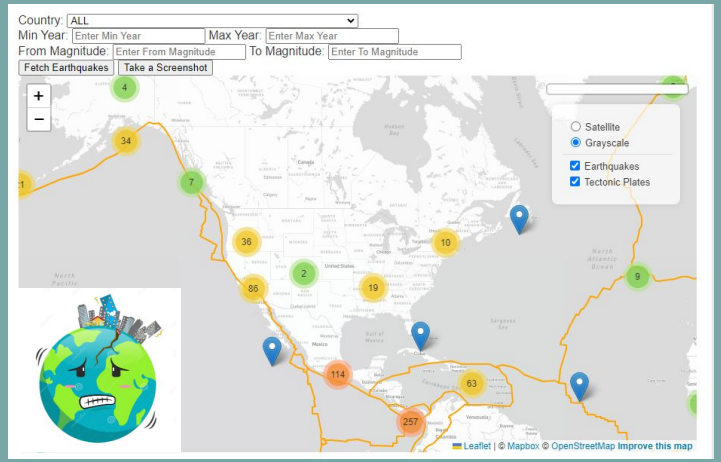


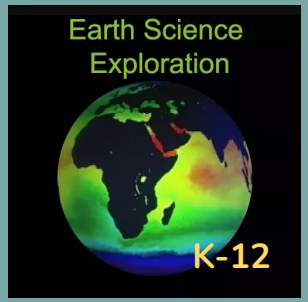
Outline

- Background
- Objective
- Audience
- Data Sources
- Application Diagram
- Website Demo

Background

- K-12 Science Curricula globally, including in various Canadian provinces, highlight earthquakes as a key topic promoting STEM practices. Aligned with educational frameworks from Alberta Education (2014), tand the Ontario Ministry of Education (2008), this integration emphasizes the significance of earthquakes knowledge in a broader educational context.

- Despite substantial efforts to develop interactive web tools for specialized audiences, there must be more in guiding teachers, students, and the public to explore earthquakes. This project looks to enhance engagement and promote a more active and informed approach to earthquake education.



Objective

- The project aims to enhance the educational experience for K-12 students that will be the future generations of scientists, engineers, and policymakers by thoroughly understanding the context of earthquakes through main variables, such as location, magnitude, damage, number of deaths, and the comparison of historical earthquakes.

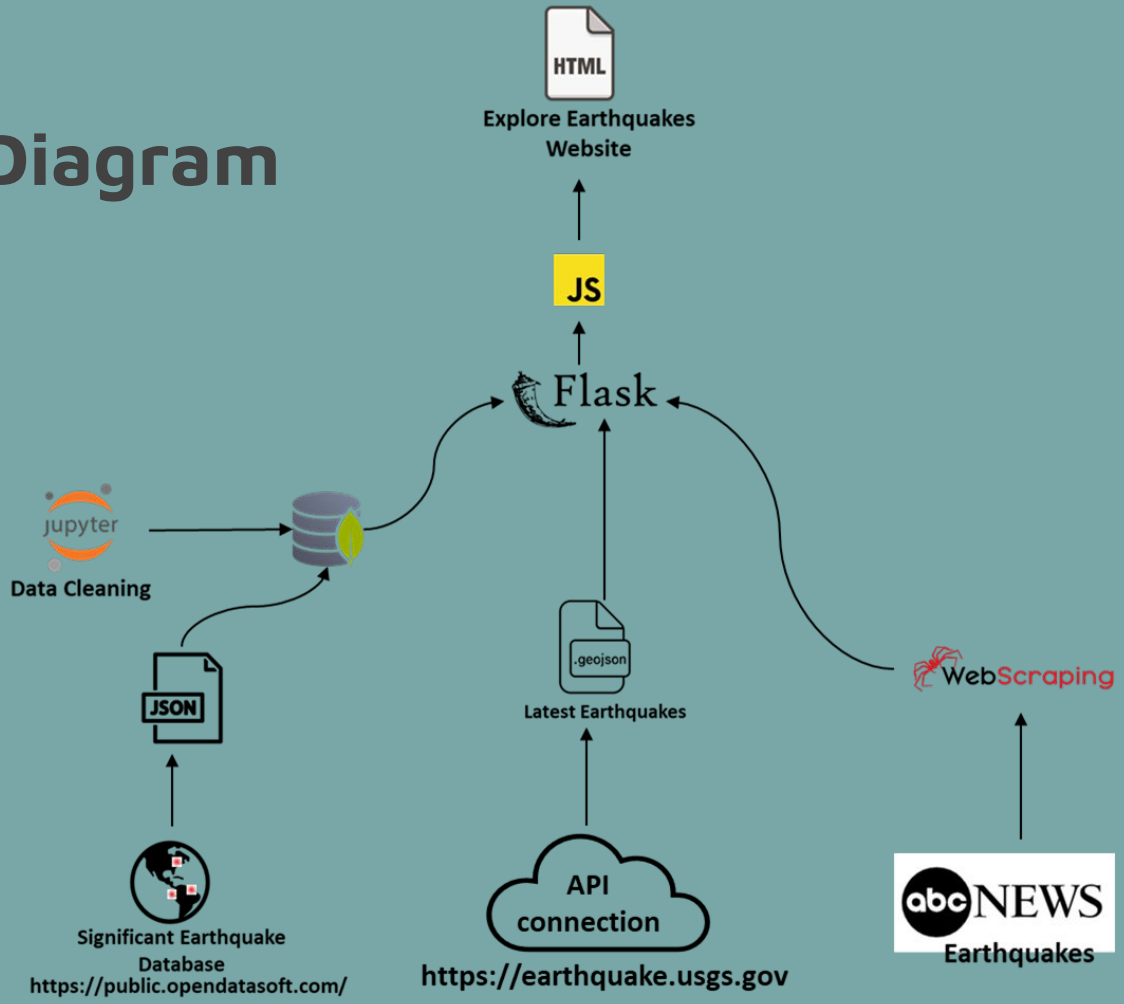
Audience

- K-12 Science and Math Teachers
- Public education
- Public Interest on Earthquakes

Questions for Our Project

- **Question:** What information can be integrated into the map to enhance the student's understanding of the geographical distribution of earthquakes?
- **Question:** How can we visually represent the magnitude of earthquakes on the website in a way that will be engaging for K-12 students?
- **Question:** How might we facilitate a user-friendly interface for students to compare and analyze data from two historical earthquakes?

Application Diagram



Demo

Thank you!

Q&A