

Connor Barrett

Ethan Brown

Aldre Fearon

James Routhahn

Team Project Iteration 0

Problem Statement: Help users locate properties and assess risk due to environmental disasters through historical data to project future risk. Helping users to weigh the benefits and risk of buying property in a particular location.

Scope of Project:

The Software will:

- Accept user address used to locate the user's county
- Generate a risk report on the county level
- Display a breakdown of the report

The Software will not:

- Locate address pinpoint accurate addresses
- Give advice on what to do with the given information (user takes risk for what they do with data)
- Offer active weather updates or real-time disaster alerts
- Does not consider property prices in risk evaluation

Functional Requirements:

1. Ability to create user profiles to save favorites and user data
2. Let's user input a correct address
3. Convert a user given address to a specific county/state identifier
4. Pulls risk data from the FEMA Resilience Analysis and Planning Resource Center
<https://rapt-fema.hub.arcgis.com/pages/data-sources>
5. Generates a risk score report based on data
6. Risk score will be accompanied by info explaining what the score means
7. Let's users download the risk score report as a PDF
8. Will let users "favorite" certain counties for future use

Non-functional Requirements:

1. 95% of the time will correctly locate the county of the inputted address.
2. Will find the county of an inputted address within 10 seconds.
3. Will create the climate risk report within 10 seconds.
4. Will be programmed in latest stable release of Java.