Early Warning System

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Flowchart:

- User Input
- Initiate code
- Wait 60 seconds → Function: Get Hash
- Function: Get Hash
- Updates?
  - No → Wait 60 seconds
  - Yes ↓
- Initiate Early Warning Protocol
- Reads in Data
- Parses script for information
- Does the information fit the criteria
  - No → (back up)
  - Yes ↓
- Initiate SMS + Email Protocol
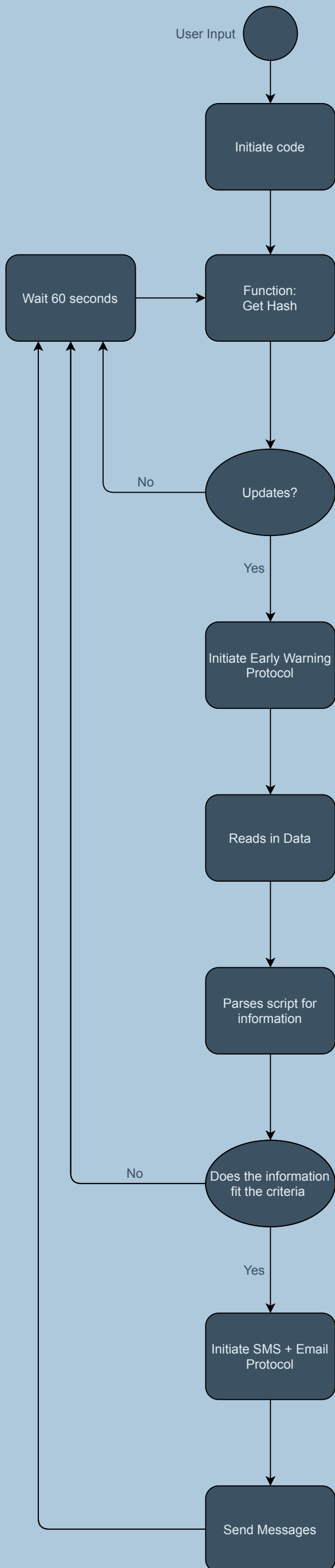- Send Messages

To use this program, please pull the code and accompanying information from https://github.com/TonySombrero/Geo-Haz_Early_Warning.git.

User Inputs: Users of this system have to input their phone number, email, and password for this system to run and send them a warning message.

Get Hash: This function obtains information from a given url or website on when it was last updated. It then compares the information to the info from the last time that it checked the url or website. If the new info matches the old info, the url or website was not updated. If the new info does not match the old, then the website was updated and the next function is initiated in the script.

Early Warning: This function organizes and reads in data from the .xml deliverable and collects the important information from it. Once the important information is pulled out of the file, the text and email messages are formed and the messaging protocol initiates.

SMS & Email Protocol: This section of code starts a secure server with an email account. It then creates, organizes, and prepares the messages for delivery. First message is sent as an SMS to a phone number, the second message is sent to an email with more information contained.

Note: This script is for demonstration purposes only. Do not rely on this system in the event of a true natural disaster as it relies on local power, internet, and cell communications.

Please follow the NTWC and PTWC Twitter and Facebook feeds for up to date information on Tsunami warning information.

Turn on Government Alerts on your phone for professional early warning messages and other important information. Research the natural hazard risks in your location to prepare with evacuation routes and emergency supplies.