Tasks

1. Add SOS Contacts:

- Permission to access contacts.
- Make a read/writable db to store them.

2. Microphone and GPS integration:

- Permission to use microphone and location services.
- Make a read/writable db to store both recordings and geographic coordinates temporarily.

3. Noise Detection:

- Train the model.
- Test it.
- When the model identifies a true positive/false positive , it will ping the notifier.

4. Format Data:

   When pinged:-

- Access the noise input and the geographic coordinates of that particular time instant provided it has enough permissions to access the db.
- Format the data accordingly(to be specified later).

5. Send the SOS message to the designated SOS contacts:

- Access the SOS contacts.
- Send the formatted message to the SOS contacts.

6. Confirmation:

- The respective SOS contacts are then pinged with the SOS message.
- The user is then given the option to cancel the SOS message. To cancel the message , they have to insert a passphrase or a pattern one of which will be true and will cancel the distress message and the other will confirm the cancellation on the user's side but will confirm the distress signal for the SOS contacts.