Project Concept Document

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Project Title	Mosquito Corridor Identification and Visualization
Document	DASS Project Concept Document
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Description

Software system to establish and visualize paths frequented by mosquitos in IIIT-H campus and thus avoid potential environmental hazards and wastage of resources due to their rampant usage all over the area. The system, using an established map, would help in determining effective eradication methods and alert users whenever they approach a populated area.

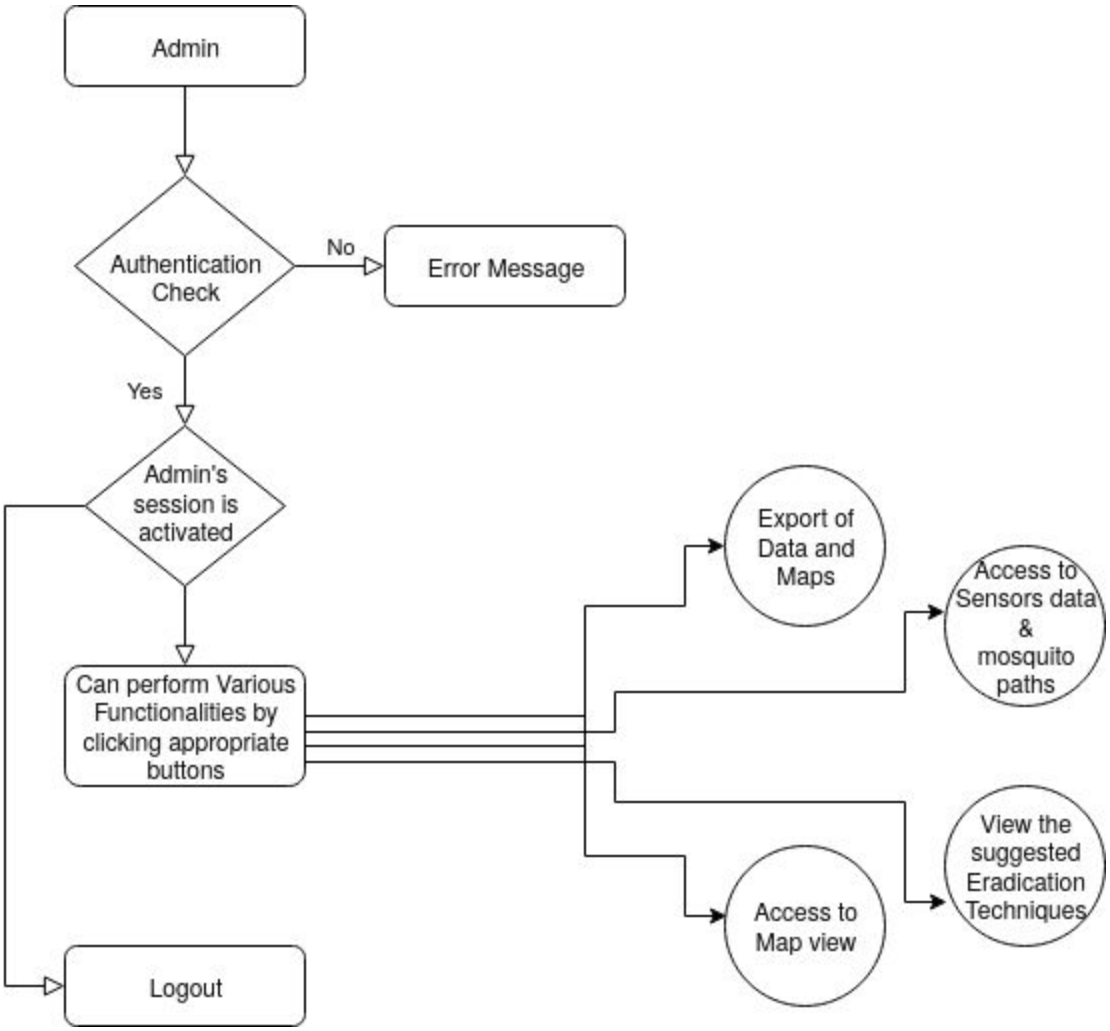
Profile of Users

Our system primarily has three types of users.

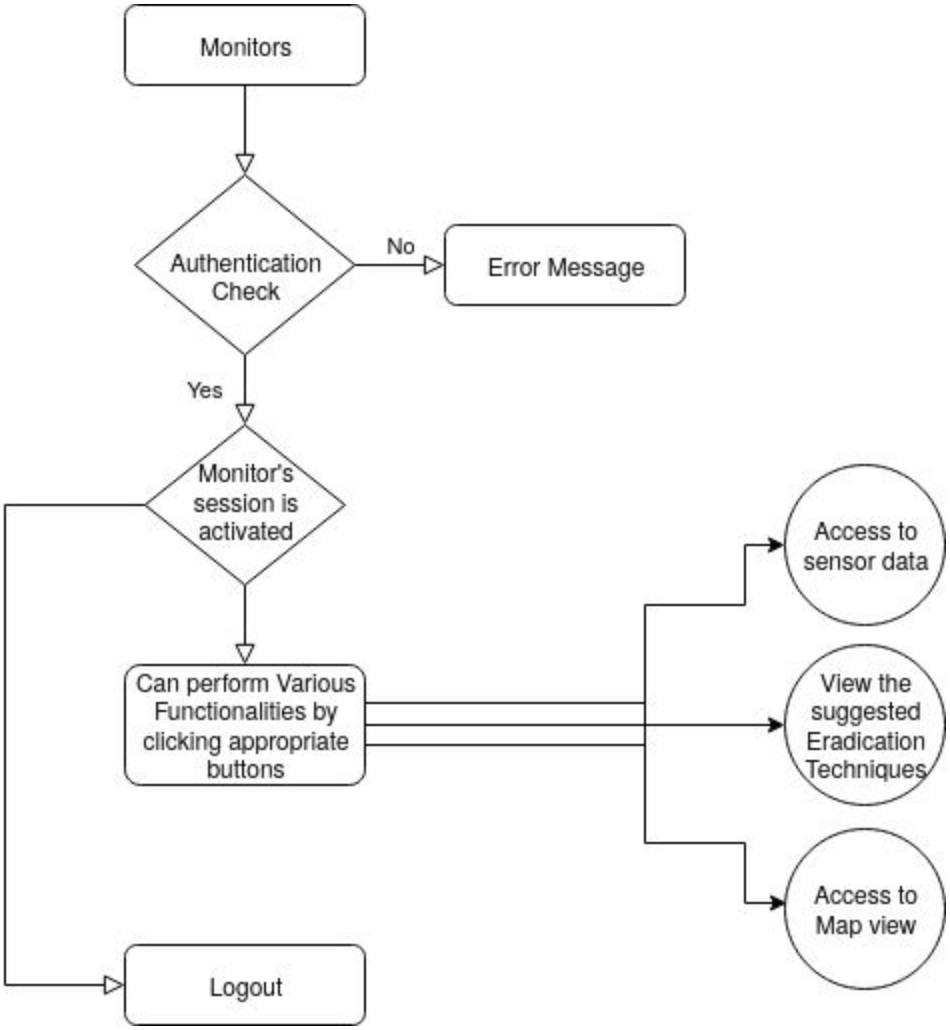
1. **Admin:** They mainly constitute the development team who have access to the data from the micro sensors, store records of mosquito paths. Hence, their access is protected via authentication.
2. **Monitor:** These users (whose access is protected via authentication) are allowed to view the corridor paths on the map. In addition to this, they are also provided with location, proper eradication technique to facilitate them in eliminating such corridor paths.
3. **Public:** These users utilize a mobile app which allows them to send a distress message indicating a mosquito outbreak in their area. Furthermore, users receive a notification whenever they arrive in the vicinity of a mosquito corridor path. Users' location access is required at all times by the app. This location access of various users is utilized by the system as a parameter in identifying possible mosquito corridor paths.

Usage Model and Diagrams

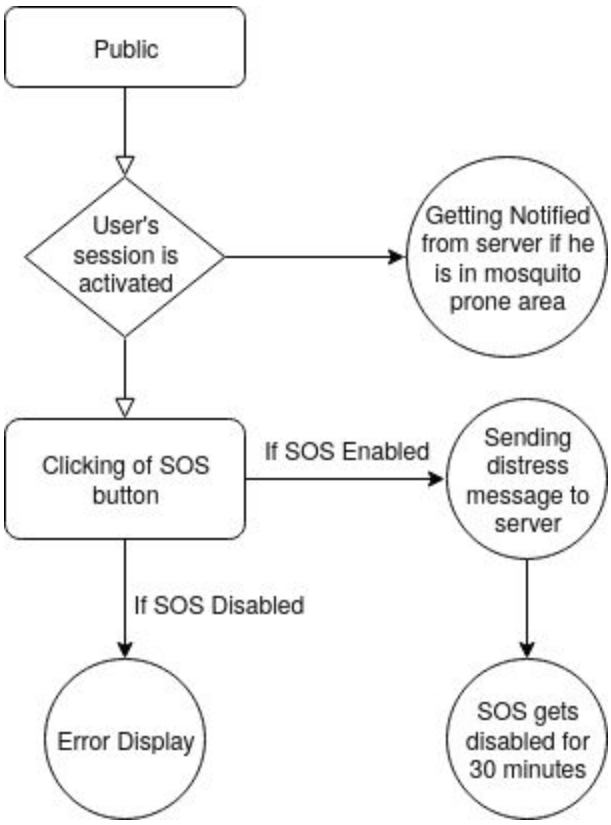
1. Admin



2. Monitor


Monitors
Authentication Check
No
Error Message
Yes
Monitor's session is activated
Access to sensor data
Can perform Various Functionalities by clicking appropriate buttons
View the suggested Eradication Techniques
Access to Map view
Logout

3. Public


Public
User's session is activated
Getting Notified from server if he is in mosquito prone area
Clicking of SOS button
If SOS Enabled
Sending distress message to server
If SOS Disabled
Error Display
SOS gets disabled for 30 minutes