

Project Concept Document

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Project Title	Mosquito Corridor Identification and Visualization
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Description

Software system to establish and visualize paths frequented by mosquitoes 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

