

HEALTH-MITRA

by

Team: Backtracking



Theme: e-Mitra

Team: Backtracking

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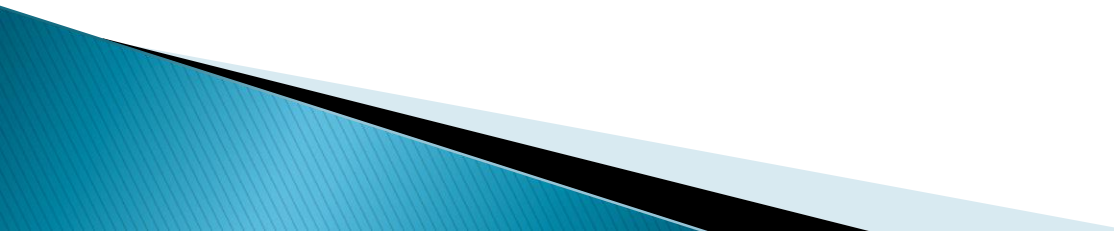
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Pitch

»» Unique and Trustworthy

Problem

- ▶ Currently, e-Mitra does not have any complaint registry system for the services offered by it.
 - ▶ It also lacks a healthcare section where citizens can know/ask about various health related issues/services and in turn representatives of the same sector help them.
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Our Solution

After Researching the current E-Mitra Android App, We wish to add the following two modules to E-Mitra for the betterment of citizens -

▶ Healthcare Module

Features provided

location



Video chat



Map



Blood
help



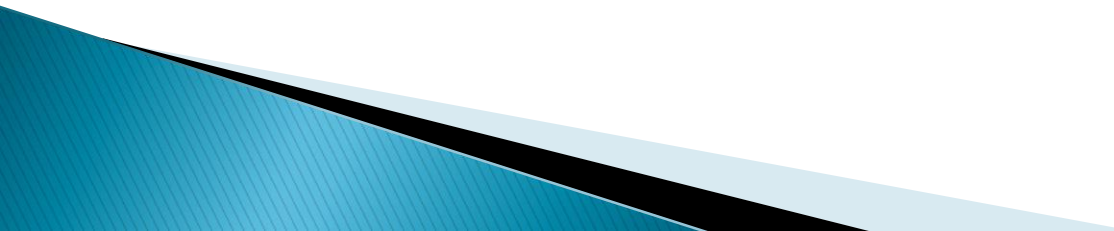
Ask a Dr



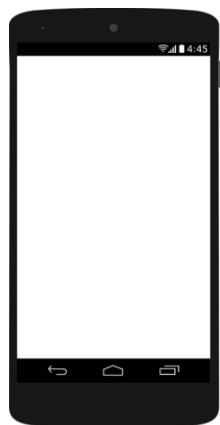
Health news



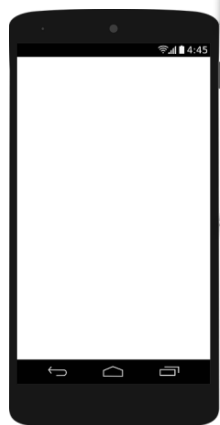
HealthCare Support Module

- ▶ A general section in which Users can know about various common diseases and necessary precautions to take. The information about same will be set by doctors who will be provided a different interface & IDs
 - ▶ In case there is a widespread of some disease, doctors can declare the area as danger zone affected by some disease X and may also guide the local people about the necessary precautions to be taken
 - ▶ One-one service for users who need emergency help from doctors in which a chat system will be developed and based on token mechanism, users will be appointed respected doctors who have registered in the app.
 - ▶ Different stats will be there represented in the form of charts & graphs which will help users to understand the spread of various diseases.
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Doctor's Interface



Government's Interface



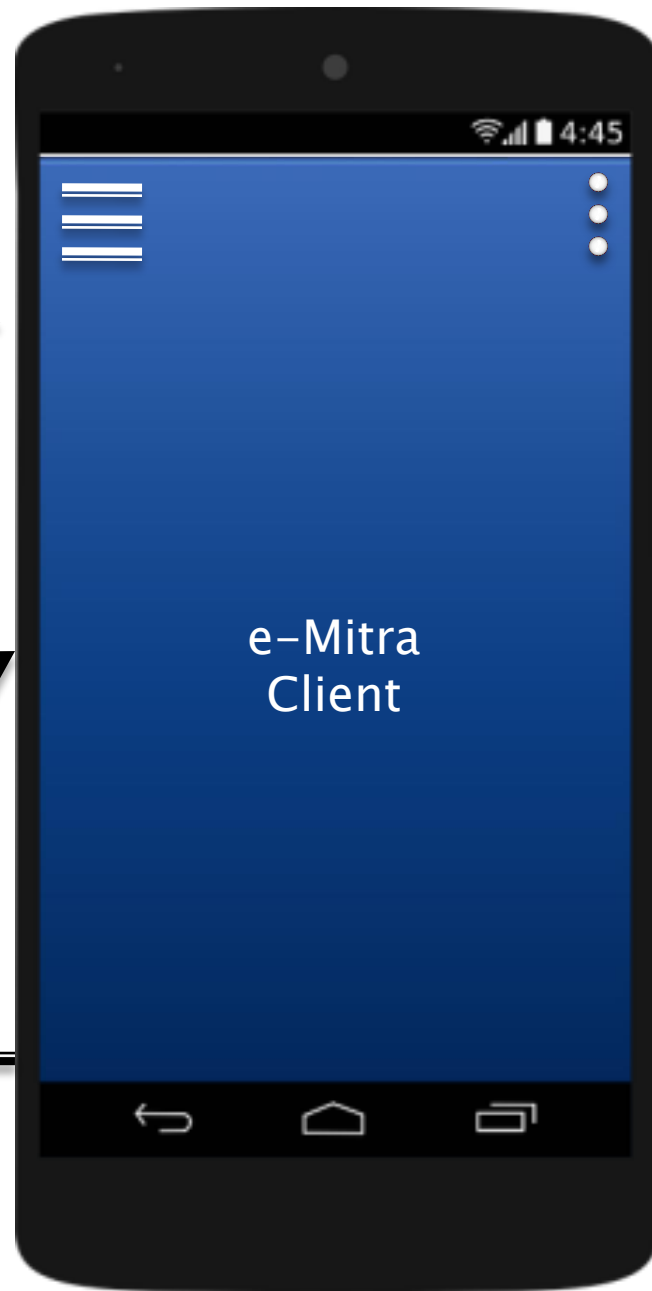
Firestore



flask scripts



e-Mitra Client



Notifications/
Chat
messages

Notifications/
Chat
messages

Updating
of required
health
related
information

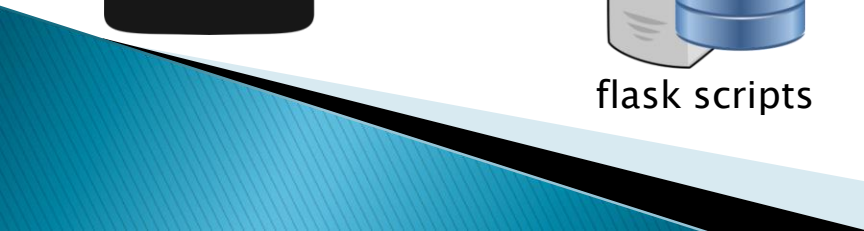
Complaints
addressing

Notifications/ Chat
messages

Push Notification request

Response of Request

CRUD Requests



Impact and Applicability

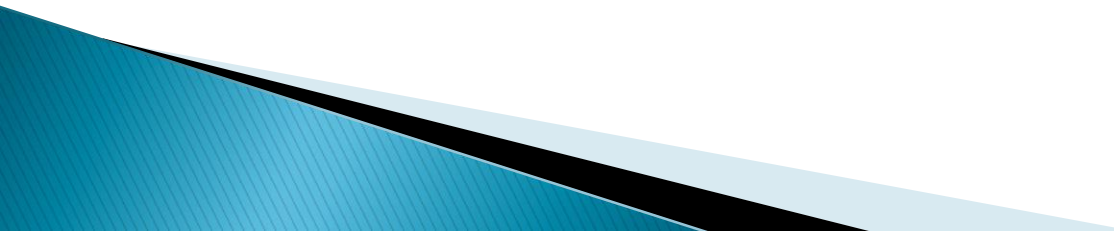
» Updated Technology & Design

Technology Stack

- ▶ **Client side:** The app will be an android + web app, so in the android app, **Android java** will be used along with some awesome libraries:
 - User Interface Libraries: [design](#), [boommenu](#), [gifDrawable](#) for good user interface
 - Google Maps APIs for displaying danger zones affected with some disease
 - For connection with server we will use [retrofit library](#).
 - For authentication, chat system and notification purposes [Firebase](#) services will be used.


Technology Stack

► App Server:

- A responsive website using HTML/CSS, JavaScript & Bootstrap framework in the frontend.
 - Python Flask Framework along with MongoDB will be used for the Backend Support
 - Various APIs like Google Maps API, Facebook Messenger API etc. will be used.
 - Charts.js will be used to represent Stats, Graphs etc
 - REST APIs will be built using Flask–Rest Library
 - Cloud Hosting (Heroku or PythonAnywhere) will be used to host the app.
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Benefits to User

► HealthCare:

- Precautions to take for widespread communicable disease:
 - Many people die in such spreads of any communicable disease, this module will not only prevent crowd in such areas but also lead to lesser loss of lives due to announced precautions.
 - Medical advice at ease. The most common diseases along with the precautions and natural treatment will be enlisted in the general healthcare section and will make people more aware about same.
 - Immediate service at emergency cases.
 - Stats will show the status of health(diseases prevailing) in the user's locality
 - Status of different government schemes related to healthcare and external links of how they can apply.
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Benefits to User

► Complaints:

- The module for registering complaint will be available for each user and hence they can be assured of being addressed
- Each citizen can register complaints following which they can resolve their queries
- Government will get to know the problems faced by the citizens.
- Different departments will be informed of the issues being posted by users.
- Each user will be provided the status of the complaint, the complaint number and registering the complaint with different privacy options (Public, Private etc.)

Thanks!