HΣRMΣS

Your Injury Response and Relay Service

Team-Justice League

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Inspiration

We wanted to create a device that would help to communicate with victims of natural calamities in real-time. The prime motivation is to help and evacuate them as soon as possible.
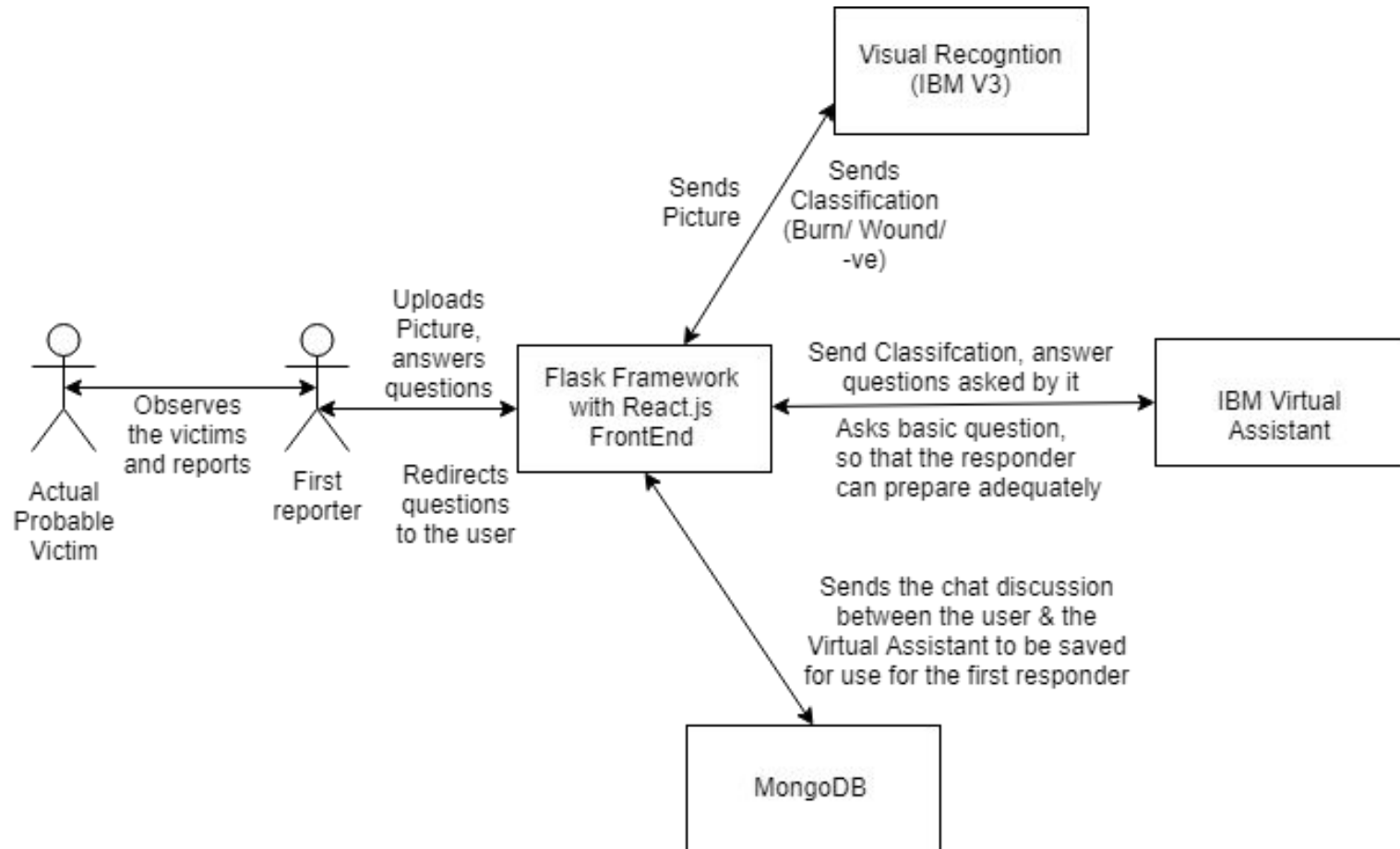
Objectives

❖ This app will make it easier for the first responder to prepare medical drugs & instruments for the victims, and to prioritize the victims requiring immediate medical attention.

❖ By asking further medical questions as done by the IBM assistant, one can determine the criticality of internal injuries.

❖ One can even determine the likelihood of false reports by gathering adequate info through the QnA chat.

What it does

- Image classification to identify injuries

- Gather information through questions asked to the victim

- Relay of the above information and the location to first responders

Process

Implementation

- Flask was used for the main application
- The user interface was developed with Node.js and React
- We used IBM Visual Recognition (machine learning API) to analyze affected areas and type of injuries
- IBM Watson Assistant was used to converse with and better understand the victim's situation and immediate health needs
- Mongo Atlas Cluster was used to store the gathered data
- The complete architecture was microservices-driven and all the rest endpoints have been tested used Postman tool.

Challenges Faced

Our team was new to API's and Front-end and our project involved a lot of IBM cloud API calls which were limited to lite mode. It was difficult to integrate the backend and frontend, in the beginning, we struggled a lot in getting desired results, understanding the platform, and creating a model.

Learnings

We are so proud of the whole project itself. We were able to fit all the pieces together and create a working MVP. Given the diversity in our team, we enjoyed a lot.

We learned how technology can help in making a powerful impact in today's world. Most of us were first-time hackers and we learned to keep working hard! We even understood the importance, a good mentor can bring to the success of any project.

Future Scope

There are lot of improvements planned for Hermes:

- Convert the conversational AI agent to drone agent for an immediate solution

- Make a Prediction for natural calamities.

- In-depth analysis of conversation between the stakeholders to be prepared and help efficiently.