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Indian Early Notification System

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Abstract: Our Solution for the Mentioned Problem Statement Comprised of Different Modules such as Alert &Notification Module, Real-Time Data Collection Module from Authenticated Source, Precaution Module to Define and Broadcast Protocol to Disaster Affected Areas, Social Media Message Circulation (SMMC) Module. IENS (Indian Early Notification System) has been designed by our team to Get & Fetch Notification System as soon as Disaster Stuck or Popped-Up (Introduce/Originated) and notifies as well as channelize Related Information via Different Social Media Official Platforms.

I. INTRODUCTION

Our Solution for the Mentioned Problem Statement Comprised of Different Modules such as Alert & Notification Module, Real-Time Data Collection Module from Authenticated Source, Precaution Module to Define and Broadcast Protocol to Disaster Affected Areas, Social Media Message Circulation (SMMC) Module.

IENS (Indian Early Notification System) has been designed by our team to Get & Fetch Notification System as soon as Disaster Stuck or Popped-Up (Introduce/Originated) and notifies as well as to channelize Related Information via Different Social Media Official Platforms

To solve the proposed statement, here is our solution is mainly composed of 4 components, that are alert, Precautions, health care centers, first aid steps. Alert deals with gathering the information from the weather forecast department and broadcasting it to the users in the form of alerts on social media and our portal.

In case of man-made crises, the user will inform by capturing the actual situation with GPS. Considering the crises server will inform response teams and nearby health care centers. Now comes the first aid step here portal/app provides the user availability status of resources like nearest health care. Registered health care centers will update their availability status. Just for the user awareness portal/app also provide.

II. MOTIVATION

The big motivation behind this project is Smart India Hackathon 2020 this problem statement relies on Smart India Hackathon 2020 and here we find a solution for that problem statement.

We require something which will reduce the overstretch on health care and help peoples during emergencies so according to this statement, it gives us the motivation to develop this app and portal.

III.OBJECTIVES AND GOALS

1) Product: our designed product (IENS) works to guard, open our awareness, and protect the citizens of the country from uncertain crises.
2) Our system keeps the track of all possible disastrous situations which may occur.
3) And Maps that Real-Time Monitoring Emergency System Services Sync with IENS Mobile App Server.
4) It disseminates and notifies information of alert to wider audiences especially at high risks through social media platforms, according to precaution modules.
5) And also makes the fastest digital interaction with the public and gets a better sense of what is happening on the ground during a crisis.
6) Then Communicates with response teams and make arrangements for First Aid Services by providing the Current Occupancy and Medical Resource Status of nearby Hospitals.
7) This gives Quick Help Providence by Acknowledging the Government and response teams based On Impact Severity.
8) Basically, in sense of innovation, it functions like virtual HE-MAN to our society who rescues and alerts them at time of emergencies just at one touch.
9) Helping and making people aware of Emergency disasters. Providing National/International Alerts according to country, district, and state.
10) Making people conscious using social media and our personalized App.

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IV. MODULES AND THEIR DESCRIPTION

To solve the proposed statement, here is our solution is mainly composed of 7 modules.

1) *Admin:* Admin performs the role of Database Administration and performs intermediate role between chatbot and response team. Admin is a higher authority in the project so they can verify hospitals by checking all the documents and assign them a secret key for accessing the portal so it will avoid fraud hospitals to get register here.
2) *Alert:* Alert deals with gathering the information from the weather forecast department or server and broadcasting it to the users in the form of alerts/notifications on social media and our portal.
3) *Precautions/ First Aid Steps:* We are providing precautions and first aid tips through the government verified social media platforms and in our app/portal
4) *User Dashboard:* In the user dashboard we are providing a google authentication sign-in option with a form of user information and user can find their nearest health care along with Google Maps also they can check for availability of beds in the hospital.
5) *Health Care Centres:* We have only verified hospitals and we verified them with the secrete key. We are providing dashboards for the hospitals to add an update on their availability status of beds. Through this, we are reducing overstretch problems of healthcare.
6) *Chat Bot:* We are providing a chatbot option on the portal to easily get connected with users and to provide the fastest help to the victims through our response team.
7) *Social Media Platform:* Nowadays social media platforms becoming a wide range of spreading the news so here we are using social media platforms to spread awareness to people and aware them about an upcoming situation or crisis and also providing precautions about it.

V. EXISTING SYSTEM AND PROPOSED SYSTEM

A. *Drawback with the Existing System*

1) When people need medical help during an emergency they just directly go to health centers and create an over-stretch problem on health care because of this system get disturbed and they will not be able to provide services.
2) Lack of awareness about the upcoming emergency.
3) People could not get alerts or notifications about upcoming situations.
4) Victims could not able to connect with the response team.
5) They are just showing a list of different health care.
6) They do not have user-friendly app/portals.

B. *Drawbacks of the Present System*

1) In a man-made situation user could not able to inform us.
2) It is more expensive because of the real-time server database.
3) We are not able to send wireless emergency alerts.

C. *Proposed System*

1) We are providing a dashboard for hospitals so they can easily add or update the status of bed availability so this can reduce the over-stretch problems on health care systems.
2) We provide government verified social media platforms so through it we are spreading awareness to the people about upcoming crises or precautions.
3) Those who are using our IENS app or portal so there we are sending alerts or notifications about emergencies.
4) Also we improve the feature of providing availability status of beds and with that we are proving Google Maps also for finding the nearest health care.
5) Using chatbot we are giving a real-time option for the user to get connect with the response team.
6) So using a chatbot, real-time database, and availability of bed makes our portal or app more user-friendly.

VI. CONCLUSIONS

The setting of the communication between victims & survivors during the disaster. It will solve the overstretched problem of health care centers. Alert deals with gathering the information from the Server and broadcasting it to the users in the form of alerts on social media and our portal. In case of man-made crises, the user will inform by capturing the actual situation with GPS. Considering the crises server will inform response teams and nearby health care centers.

Using social media shows actual crises of the situation and efficiently deals with it.

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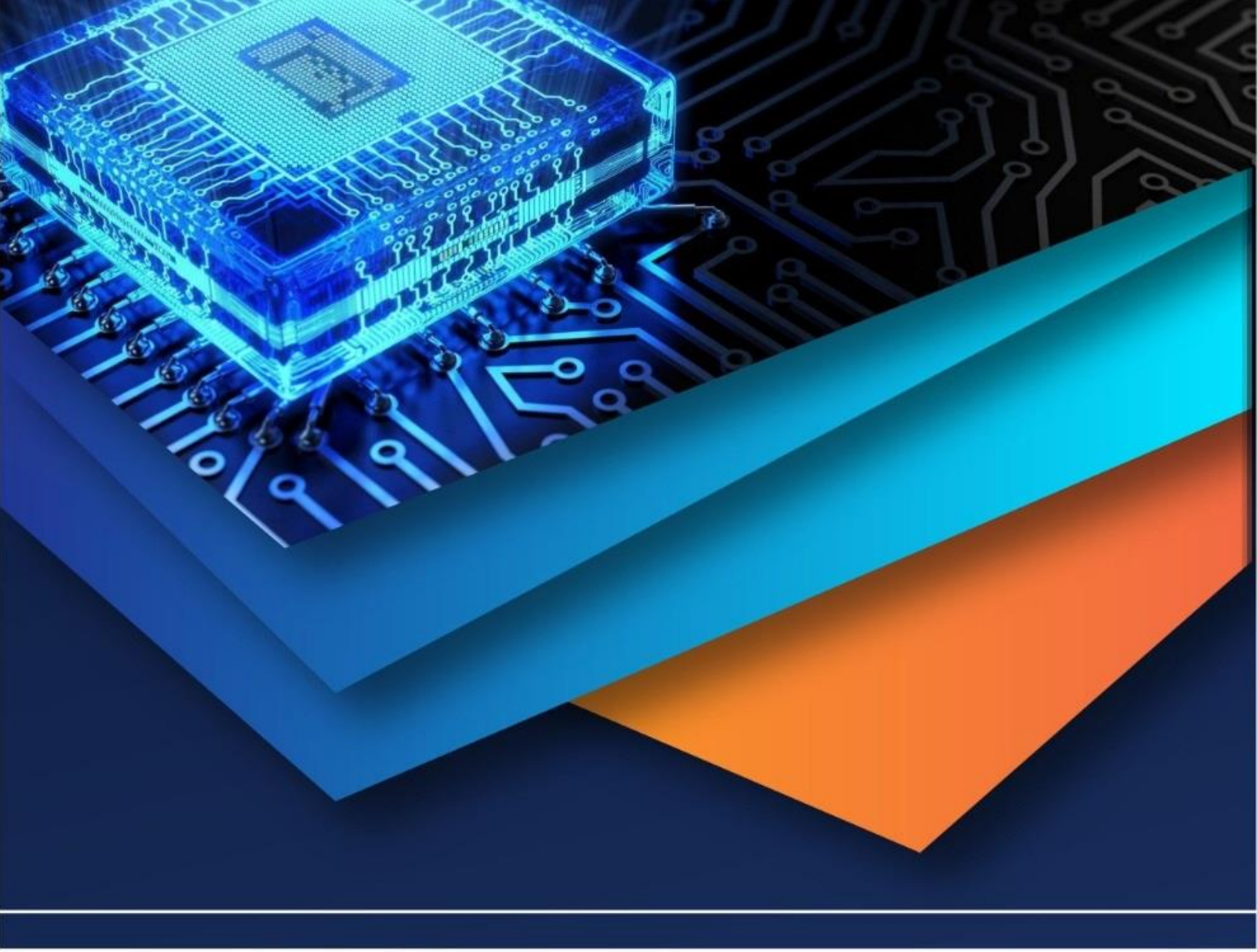

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