

CovidSupport - Fight Together

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A clear overview about how the CovidSupport system works. The system will affect the patients and help providers. It provides the brief working model of the system. Some are the barriers that will face by the users. It is mainly used in the emergency situation when the patients need emergency for Covid. It is developed by considering the UN sustainability development goal which is for good health and well being. The goal is to provide help as soon as possible without any delay so that people will recover fast and also update information on portal so that time will not be wasted of patients or the help providers.

Additional Key Words and Phrases: CovidSupport, fight together, UN goals, sustainability development

ACM Reference Format:

Helly Shah. 2021. CovidSupport - Fight Together. 1, 1 (June 2021), 6 pages. <https://doi.org/10.1145/nnnnnnn.nnnnnnn>

1 INTRODUCTION/ BACKGROUND

CovidSupport is the web application which is mainly work as the connection between covid affected patients and NGOs or help providers to solve the emergency problem related to pandemic. Due to pandemic everyone are helping each other to get over the pandemic situation. But sometimes needy people can not connect easily to help providers or NGOs.

The CovidSupport will solve the problems of the patients who faces difficulty to get the help regarding medical equipment and after covid effect. Many countries are facing difficult situation of their citizens. People are facing death of them and their loved ones. People will connect through this platform sharing contact with each other and ask for the help. There are the people who take initiative to help the covid affected patients. And also there are number of NGOs who are already working for the covid relief. These help providers and NGOs are working in the different areas and they need to know about covid affected patients in their working area. And also patients need to know about which are the help providers and NGOs are working in their area of living and what services they have for the patients[1].

CovidSupport development is inspired through the UN sustainability development goal number 3 which is for good health and well being. This goal is working to ensure the health lives of the people and promote the well being for all at all ages. Through this CovidSupport web application, there will be small contribution towards the UN sustainability development goals.

2 METHOD/ EXPLORATION

CovidSupport web application is developed based on the patients requirements and help provider or NGOs working module. In the pandemic time, patients are uploading or posting their emergency need to the social media like whatsapp, instagram, twitter etc. After posting their emergency need to the social media, they have to wait for the reply of someone for getting help or wait for some leads to contact the help providers or NGOs[1].

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XXXX-XXXX/2021/6-ART \$15.00

<https://doi.org/10.1145/nnnnnnn.nnnnnnn>

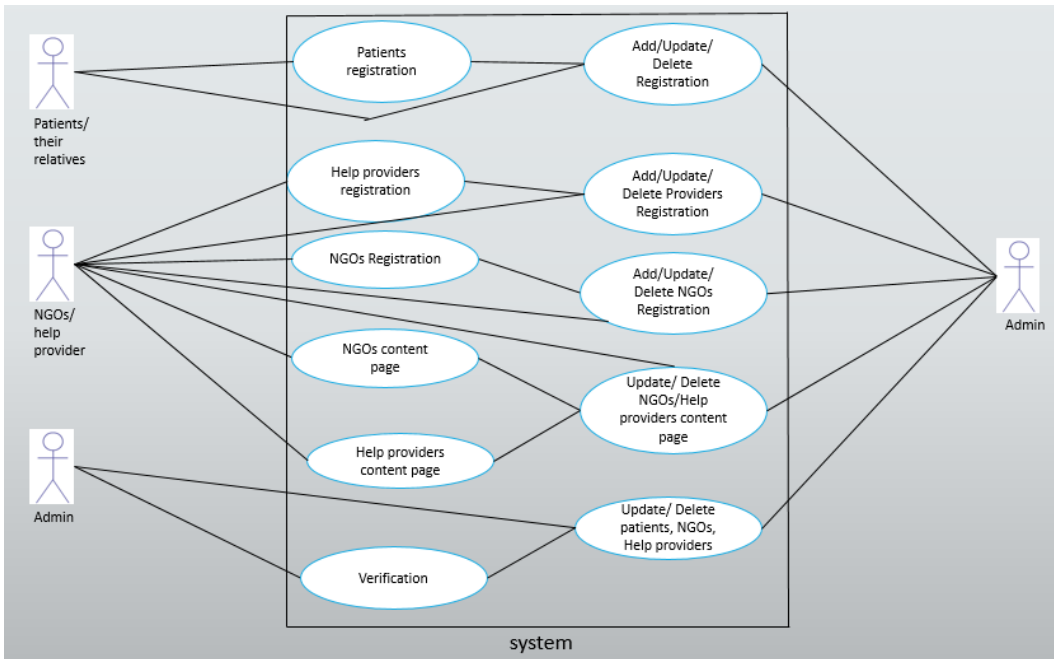


Fig. 1. Use-case diagram for the CovidSupport System

Instead of waiting, the patients get instant help through this platform and also they can see the list of help providers or NGOs so they can contact them with respect to their needs. NGOs and Help providers also can register into the CovidSupport system so they can see the list of patients also. After seeing the list of patients, they can also contact them to provide the help according to their needs. NGOs can also see the list of other help providers and NGOs. As per the figure 1 there are three main users which are patients or their relatives, NGOs or help providers and Admin panel. First of all, users have to register themselves into CovidSupport System. When user will successfully register into the system they need to login themselves to use the services of the CovidSupport. And for the login they have to choose the option whether they are NGOs and help provider or patient. After getting into the system, there is a description page for both the users. In the description page, they can write their more details and patients can write their emergency need and help providers can write more about what they have for the patients and what they have to serve for the people[6].

Patients can write the description like what they want for emergency situation, medical equipment, bed for quarantine, PPE kits, oxygen cylinders, injections, medicines etc. Admin panel will verify the patient that they are legitimate or not and there are add update and delete function for the description page. Figure 2 is providing the different tables for the CovidSupport System which also derives the connection of the users and connection of the entities. There are the different tables for the registration and it has fields which are name, age, email, contact no, gender etc. There is also the entity called description page where user have to mention their region of living or region of providing service. And other field is description in detail. Figure 3 shows the overall processing of the system. How the processes can be working out for the patients and help providers and NGOs. There are the main processes for the patients and help providers also that view description page, add and modify content in the description page and also share it to others.

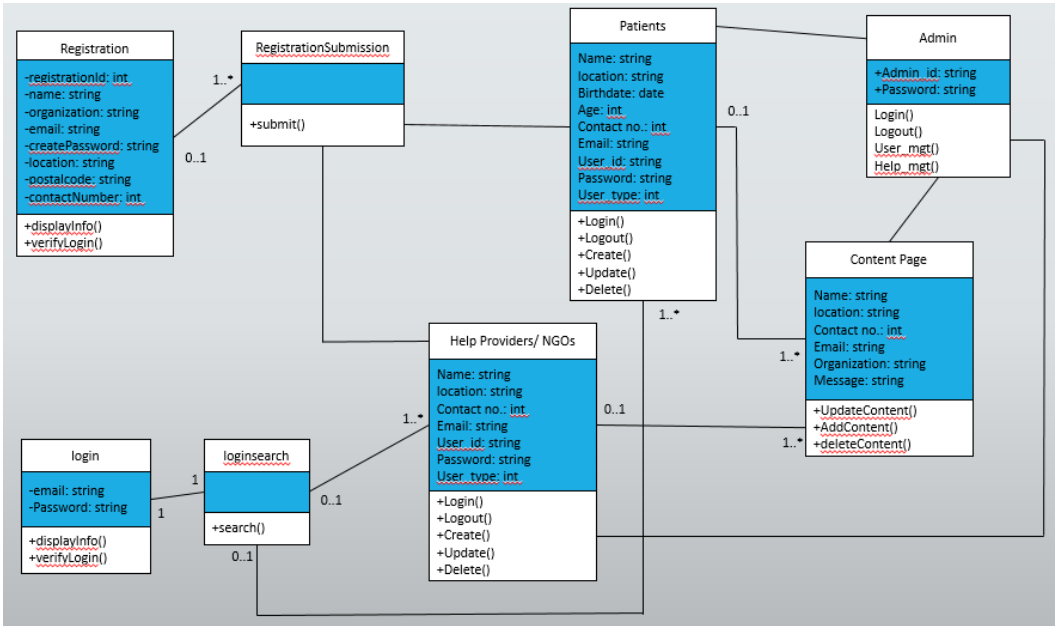


Fig. 2. Class diagram for the CovidSupport System

3 RESULTS & DISCUSSION

There are many features of the CovidSupport which are blog post, about page and search criteria. As per the figure 4 blogpost page will give the information about the recent news about the covid and it will also motivate the users to how to get over it, what things you need to take care of when you get infected and many other thing which it contains[4]. It will also give you the information about the author of the blog post and user can share it to the others also. In the blog post page user can comment on it and contact them for the further information also. There is a other page which gives information about the CovidSupport. The about page contains all the information regarding the UN Sustainability development goals[9]. To click on the particular UN goal, it will redirect the user to the more detail about the UN goal. This page will give user the brief details about how system will work and it focus on the goal number 3 which is good health and well being, how patients and NGOs can connect with each other[3].

There is a register and login system into the CovidSupport as per the figure 5. The users have to register themselves for having access of the services of the system. After successfully register into system, user have to login into the system and after choosing the user type user have description page. For patient’s description page they have to mention the region of living and description about what they need for emergency help[8]. There is also description page for the help providers also and they have to mention the region of service providing and description of what they have for the covid affected people. The user will have a feature like they can post their descriptions, edit their description and also delete their description also[5]. The extra thing that patient have to upload is to their prescription from the doctor that they need oxygen, injection etc. and they also have to upload their government id proof for verifying them as they are legitimate user or not. CovidSupport system have to verify that if they dont have any fake entries of the user.

Whenever patients post their needs they can see the list of help providers or NGOs as shown in figure 6 so that they can contact them in the emergency situation. The list is having their contact

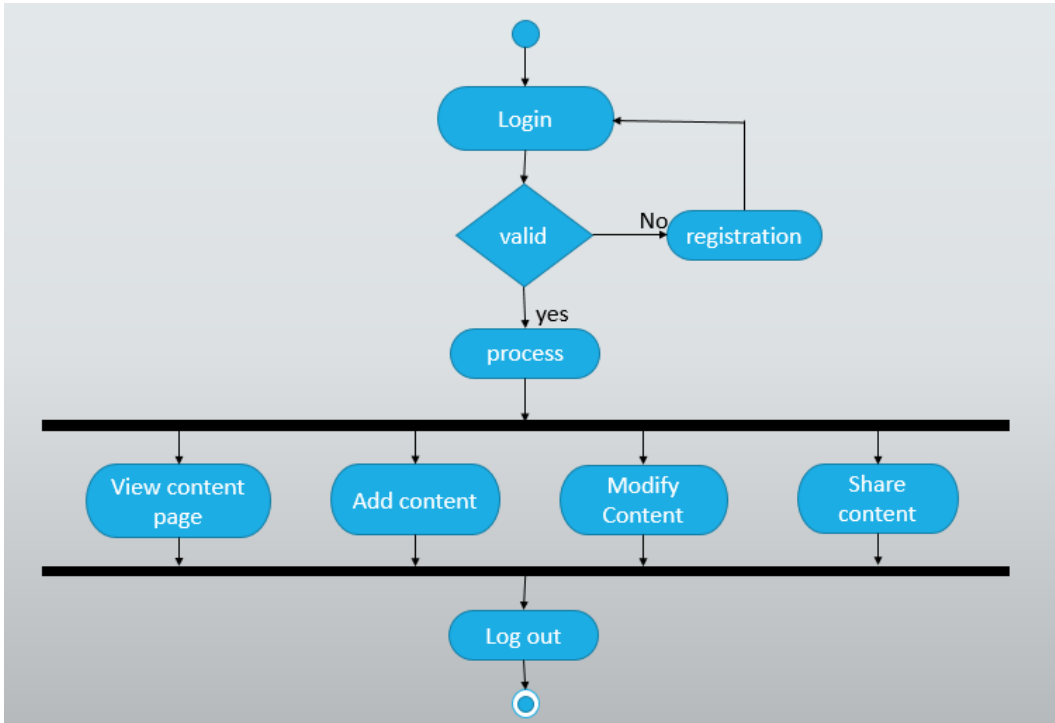


Fig. 3. Activity Diagram for the CovidSupport System

details. In the page of NGO list, system will have a search feature by which patients can search through the keywords. It can ease the work of the patients and also it can reduce the time for the patients to search through each pages or each help providers[7]. Same as the patients, NGOs can see the list of the patients and also other NGO or help provider list by which they can contact the patients for providing help or they can at least come to know about which region need more help for the covid situation. NGOs also have the search feature for the searching through the keywords. Both the users can also share this post to other social media or their relatives[2]. There is a connect section also there to comment by the patients or help providers also and after seeing the comment they can also reply to the users and this will also help on letter time to see the if user are legitimate or not.

3.1 Tools and Technology Used

For the designing part of the web application, HTML and CSS is used and for the backend purpose, there is PHP and Javascript is used. This web application needs the database and it uses the MySQL. All the source code are uploaded to the github and its link is <https://github.com/hellyshah27/CovidSupport>. There is also the project commercial video, which can be more understood by the users after seeing the commercial and its link is https://www.youtube.com/watch?v=Ga-IQb_Yccg. For the documentation purpose of CovidSupport, using the Overleaf tool which is cloud based latex tool. Prototype of the system is can be made using the JustinMind tool. And all the diagram which shows the working model of the CovidSupport, it can be design using the Dia tool.

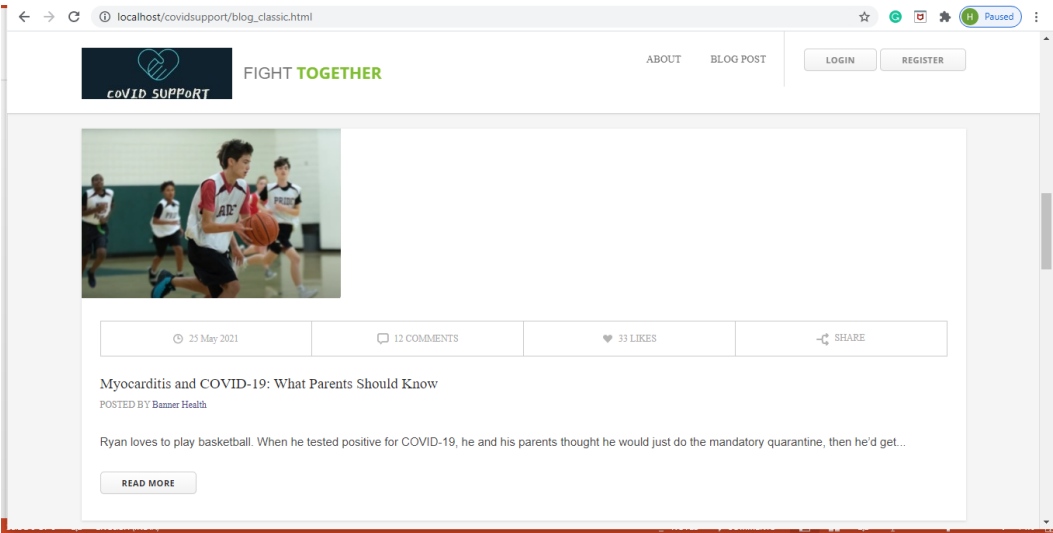


Fig. 4. Blog post page for Covid

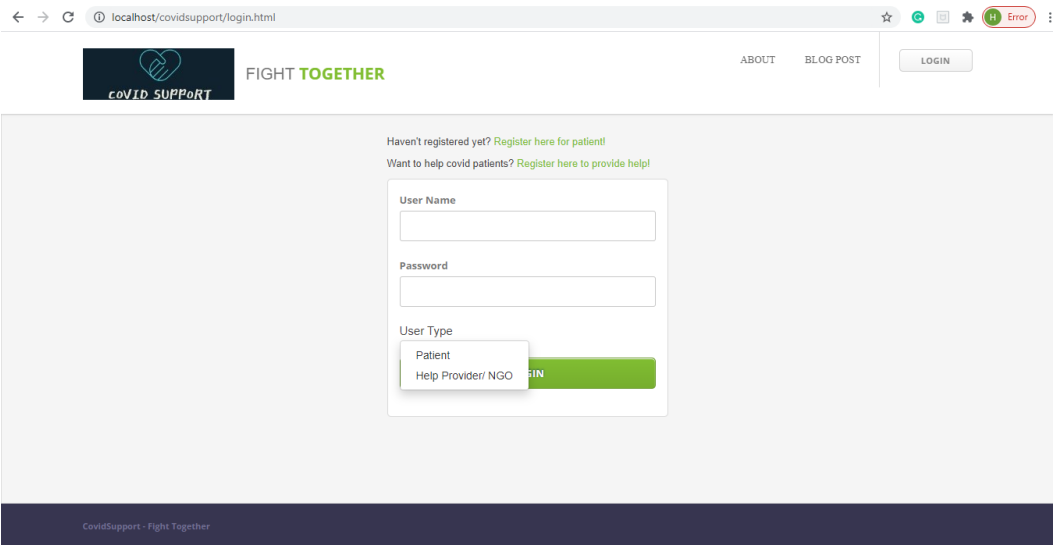


Fig. 5. Login into the CovidSupport system

4 CONCLUSION AND FUTURE WORK

To conclude the CovidSupport web application, it can be say, it is very good way to connect patients and help providers instantly due to the pandemic situation. It has one or many features which helps the patients to get over the Covid disease. It is a small contribution towards the community to have better system for good health and well being. It will save many lives by reaching out right people at right time for the emergency help.

The future work for the system is that the verification part from the admin side. It needs to verify that if the patients are legitimate or not and for that, it needs proof of the prescription and id. There

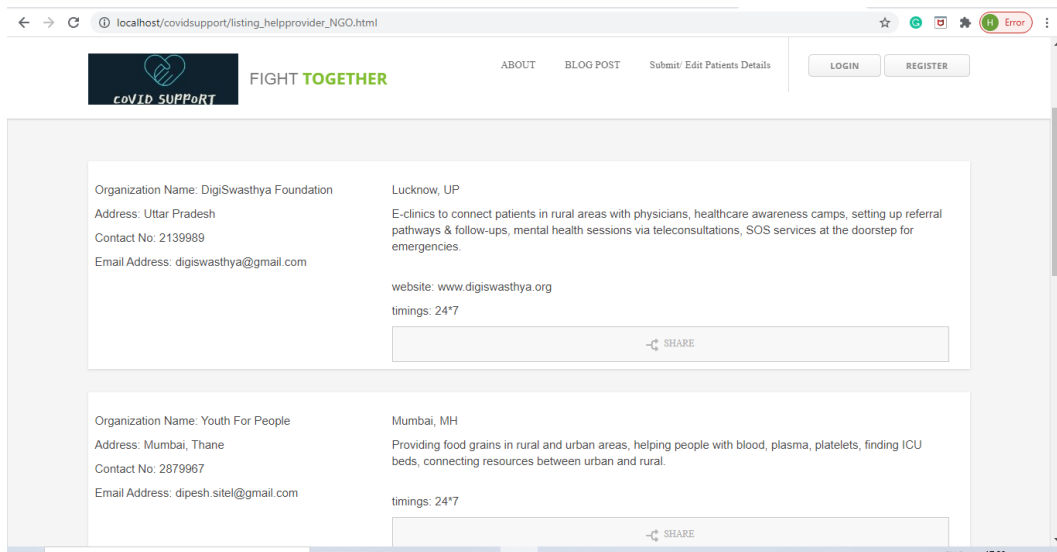


Fig. 6. NGO list after submitting what they have for the patients

has to be more secured database because it has the personal information about the patients so that it can not be vulnerable. There are the government norms for the patients that needs to be follow for accessing the personal information about the patients and also need to consider the privacy concerns of the patients about their diseases. There is also a vaccination section in which they can mention that if they are already immunized or not.

ACKNOWLEDGMENTS

The special appriciation to the professor Tim Maciag to alwayd guide for the CovidSupport system and always provide his valuable comment for the identifying which work needs to be done. The UN sustainability development goals are very helpful to get to know about the situation of all over the globe and influence by them to contribute towards the community.

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