

- 3) The cloud transfers data to hospitals that is provided by the patients through PHC which basically contains patients medical information and reports which is taken by hospitals as a case.
- 4) After studying the case the hospital reverts back with available resources, schedule, estimated cost and other details to the cloud.
- 5) Now cloud has information from all the hospitals which are interested to take up the case, which is then forwarded to the network.
- 6) The network decides where to forward hospitals response depending on the tags and respective gram panchayat ids, to the PHC concerned.
- 7) Simultaneously hospital responds to PHC regarding the government schemes that the patient is applicable too.

The cloud also provide security to whole network by monitoring the data flow through it. This monitoring is done by third party nobody else than administrator which in server back office keeps a track of data flow, connection establishment and management, network security using firewall, and security from network attacks.

3. Importance and Motivation

The benefit of this is very clear, no one needs to be tied to a computer or phone.

All that is needed is a way of accessing the data and that can be done from any machine.

Like laptops, smartphones, tablets, or any other device capable of accessing data

- To reduce the paperwork of the hospital and patients.
- To reduce time spent over transportation.
- To reduce interdependency of hospitals over patients and vice versa.
- To introduce fast and efficient information sharing and response remedy.
- To increase dependency on technology.

4. Design of the System

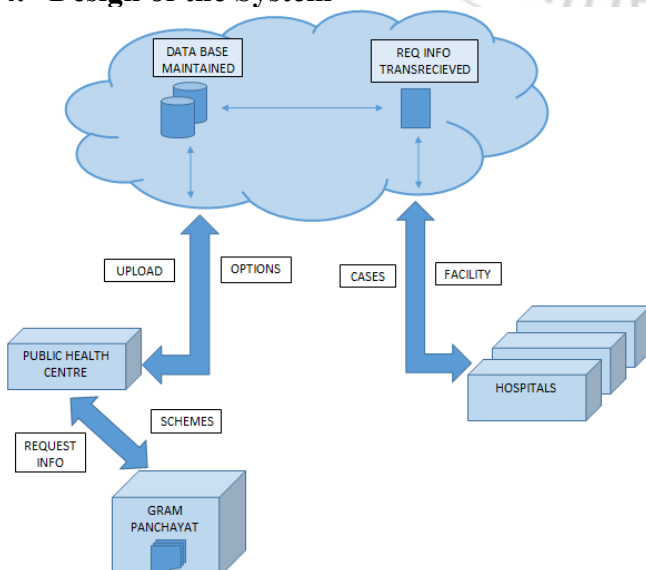


Figure 2: Structure of the project.

The Public Health Centre does the job of uploading the patients health related information on Cloud.

This information on the cloud is further passed to the Hospitals and Gram panchayat which they can access through their log in.

Once the hospital gets the information of the cases related to the patients it replies with the facilities provided by them on the particular disease.

Further the Public Health Centre decides on from the particular hospital which will avail aid to the patient and the Gram Panchayat sends the schemes and government facilities that the patient can avail from the Government.

By using this we can even provide facilities to the village at its particular Gram panchayat center on weekly basis depending on the need of the villagers.

5. Hardware & Software Requirements

Laptop/Desktop

It is required for installation of various software required to generate cloud and different assisting applications. It will act like server and data storage for the cloud. A device compatible for accessing server is required by the host user (Gram Panchayat & hospital) to communicate for data transmission to and from with server.



MySQL

MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other "AMP" stacks)..it is a software that will be used to manage the database for the cloud.

Microsoft SQL Server

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications which may run either on the same computer or on another computer across a network (including the Internet). Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

Visual Studio

Microsoft Visual Studio is an integrated development environment from Microsoft. It is used to develop computer programs for Microsoft Windows as well as websites, web applications and web services. Visual Studio uses Microsoft

software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code. Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works both as a source-level debugger and a machine-level debugger. Other built-in tools include a forms designer for building GUI applications, web designer, class designer, and database schema designer. It accepts plug-ins that enhance the functionality at almost every level—including adding support for source-control systems (like Subversion) and adding new toolsets like editors and visual designers for domain-specific languages or toolsets for other aspects of the software development lifecycle (like the Team Foundation Server client: Team Explorer).

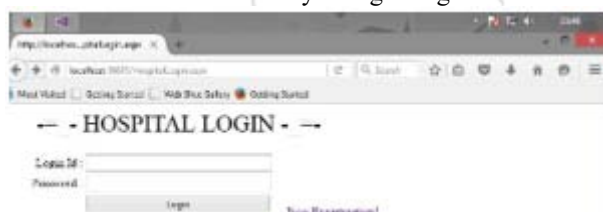
6. Work Done

Web page development and database storage is done. The project is working few webpages are as below:

Home Page



Gram Panchayat Login Page



Hospital Login Page



Hospital Registration Page

7. Conclusion

This saves the time of the patient in travelling to the hospitals in the cities.

The information accessed through the cloud server in the hospitals will state the health of any patients and treatment facilities can be availed for the same.

This project can be implemented for betterment of people mostly in Rural areas.

This will make sure that the doctors and hospital staff will be made available in that locality. For proper and efficient functioning of the resources provided.

8. Future Scope

First level security is provided in the form of user id and password for individual Gram Panchayat, Primary Health Centre and Hospital, it can be further improved by installing firewalls.

For efficient working we can use biometric authentication government hospitals and maintain attendance for doctors and staff.

Medicinal and vaccination supply can be regularly checked and maintained in rural area.

Emergency beacons in the form of shortcuts can be provide which will call for closest ambulance.

Database generated can be maintained which will digitize medical status of the patient and can be utilized for future medical issues of the same person.

Database if maintained properly will also support other governmental programs like Census etc. and governmental schemes like sarvashiksha abhiyan, pradhan mantri jan dhan yojana etc.

This procedure saves time, money and efforts of a patient to travel to several hospitals at different locations for various facilities.

The information accessed through the cloud server in the hospitals will state the health of any patients and treatment facilities can be availed for the same.

This project can be implemented for betterment of people mostly in rural areas.

This will make sure that the doctors and hospital staff will be made available in that locality. So for proper and efficient functioning of the resources provided.

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