

JEEVAN ONLINE HEALTH APPLICATION

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Abstract:

The importance of health care is immense in society and over the past years, this sector has been evolving to produce a more efficient and computerized system. On our health service website, we try to develop software in which a patient registers on the website. then the patient is introduced to different features of the website such as health care tips, medication tips, pandemic awareness, nearest hospital location, blood availability and blood availability, and many more. Our software even allows patients to book a bed in a hospital and also allows the patient to buy blood from the nearest blood bank. Moreover, our software provides clear and actionable information for all users.

This application maintains the entire data in a centralized and secured database server to maintain consistency in report generation and allows users to access it from any location. This is an online application that allows multi-user access to the system and to track or manage the data simultaneously. Various roles and authentications have been provided and access to various areas in the tool is restricted according to the role given to users. This system design is modularization into various categories. This system has enriched UI so that a novice user did not feel any operational difficulties. This system mainly concentrated on designing various reports requested by the users as well as higher with export to excel options.

INTRODUCTION

The importance of health care is immense in society and over the past years, this sector has been evolving to produce a more efficient and computerized system. On our health service website, we try to develop software in which a patient registers on the website. then the patient is introduced to different features of the website such as health care tips, medication tips, pandemic awareness, nearest hospital location, blood availability and blood availability, and many more. Our software even allows patients to book a bed in a hospital and also allows the patient to buy blood from the nearest blood bank. Moreover, our software provides clear and actionable information for all users.

On this website, the patient and admin login with his details. the login page checks these credentials and redirects the user to the dashboard based on the credentials given. both patient and admin have different dashboards. the patient is only given access to the patient dashboard but the admin have access to both admin and patient webpages.

OBJECTIVE

The COVID-19 pandemic have had a major impact on the capacity of health systems to continue the delivery of essential health services. While health systems around the world are being challenged by the increasing demand for care of COVID-19 patients, it is critical to maintaining preventive and curative services, especially for the most vulnerable populations, such as children, older persons, people living with chronic conditions, minorities, and people living with disabilities

EXISTING SYSTEM

The existing system only provides information about the specialist and their area of expertise. and it takes too long to book a slot and even takes too long to process and receive confirmation. the patient even don't know whether the slot is even available

Disadvantages

- Difficulty in maintaining employee individual rating information in an excel sheet.
- Difficulty in co-relating different ratings.
- Doesn't provide effective communication between different levels of jobs.
- Doesn't provide security.
- Difficulty in generating the reports

PROPOSED SYSTEM

In the new system, the patient can check for slot availability. the new system also provides geolocation of the nearest hospital and the patient can book a slot in the nearest hospital. the new system also provides basic tips for seasonal diseases.

Advantages

- Faster processing when compared to the existing one.
- Centralized database helps in avoiding conflicts.
- Easy to use GUI that does not require specific training.
- Provides facility for the user (appraise) to post their rating details which will be forwarded to their appraiser effectively.
- Allows the appraiser to re-rate the hospital ratings.
- Helps in generating different reports within no time.

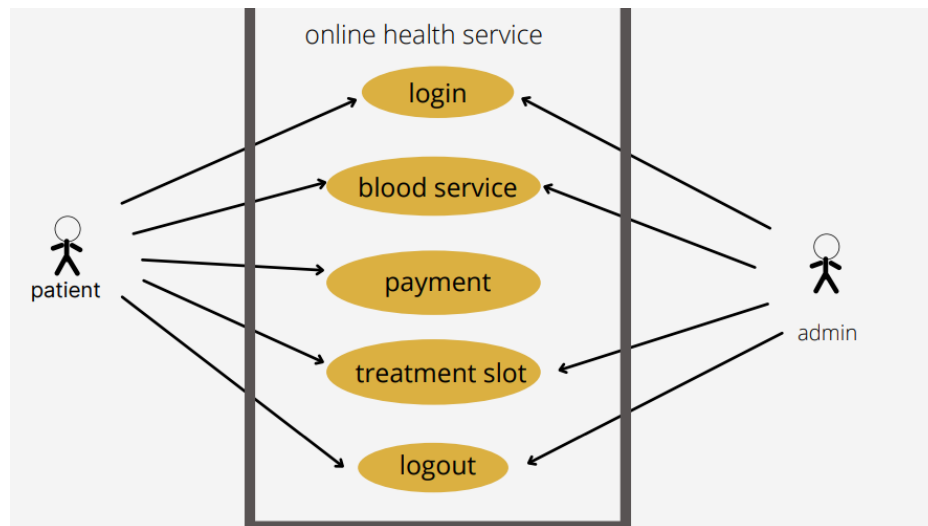
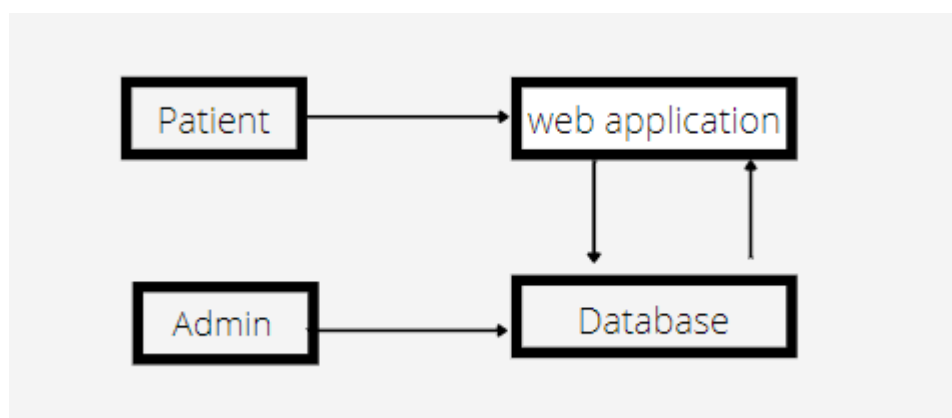


Fig1.SYSTEM ARCHITECTURE

A system architecture diagram would be used to show the relationship between different components. Usually they are created for systems which include hardware and software and these are represented in the diagram to show the interaction between them. However, it can also be created for web applications.



.Fig.2 Architecture diagram for Jeevan health application

TEST CASES

Req_id	Tkt_id	Req_description	Expected Output	Actual output	Req_tckt_status
1	101	Username verification	Redirect to home page	Redirected to home page	pass
2	102	Password verification	Allow access to home page	Access allowed	pass
3	201	Patient slot booking	Send conformation massage	Conformation message sent	pass
4	202	Updating patient treatment history	Send updated notification	Conformation message sent	pass
5	203	Auto data updating	Data uploaded	Data uploaded	pass
6	204	Manual data updating	Data uploaded	Data uploaded	pass

RESULTS

The screenshot displays a web browser window with the URL `localhost/jeewan2/register.php`. The page features a red background and a white central registration form. The form is titled "Create Account" and "Or Use Your Email For Registration". It includes input fields for "NAME", "EMAIL", "Phone", "ADDRESS", and "PASSWORD", each with a corresponding label. Below these fields is a prominent "REGISTER" button. The browser's address bar shows the URL, and the page is zoomed to 110%. The Windows taskbar at the bottom indicates the system time as 20:58 on 17-11-2021.

Fig3. Admin and user login page of Jeevan Health Application

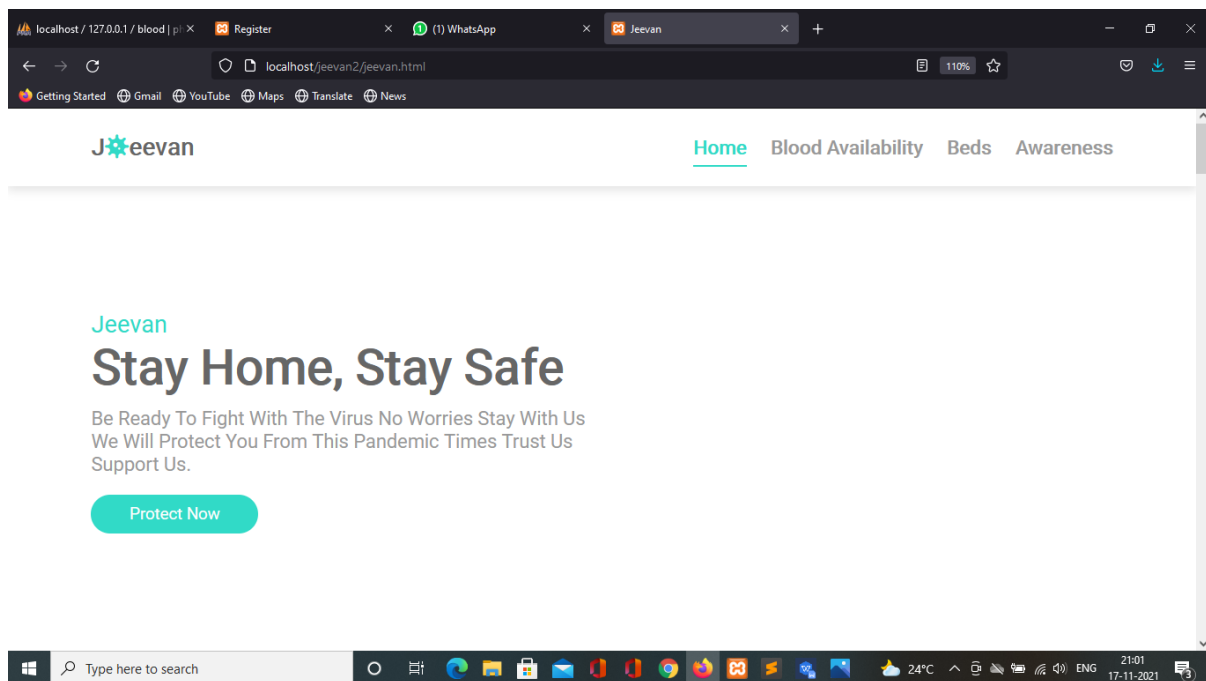


Fig4. user dashboard page of Jeevan Health Application

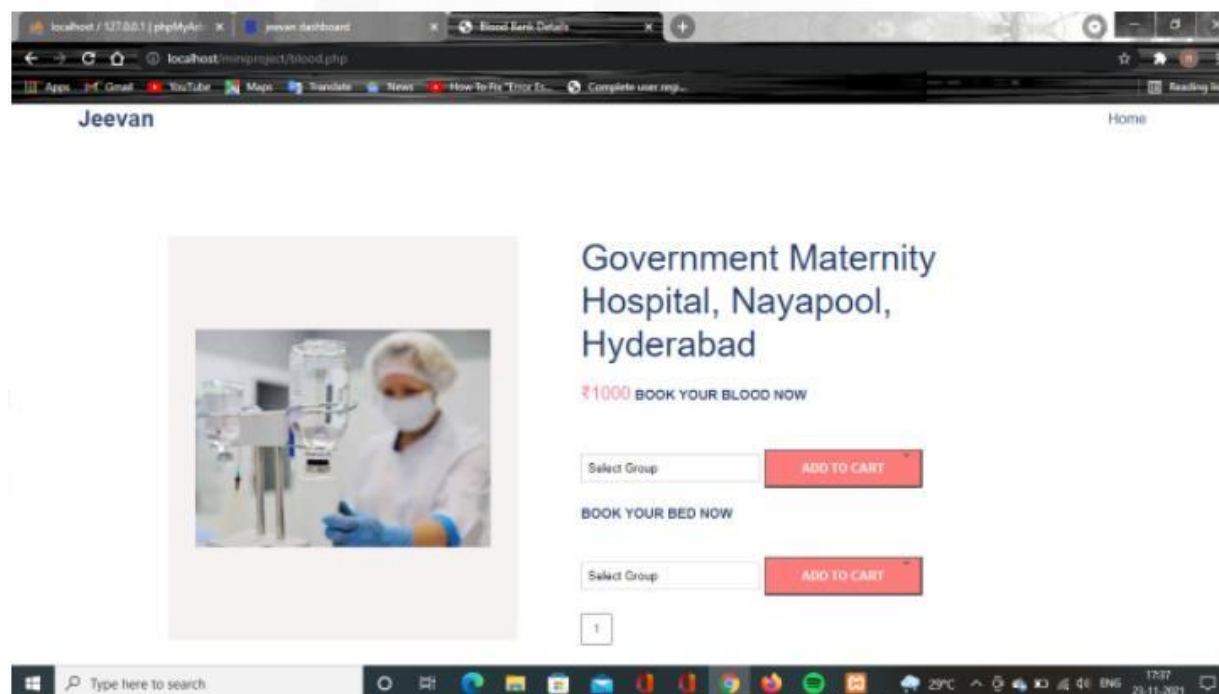


Fig5. Hospital Details of Jeevan Health Application

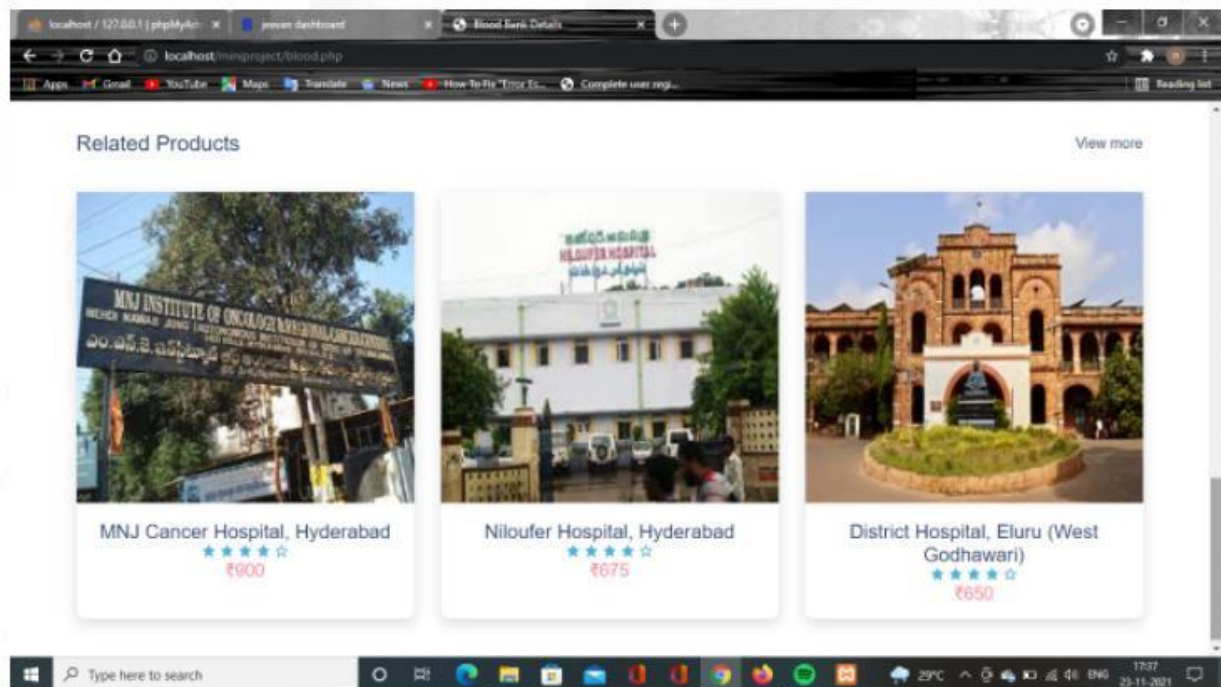


Fig6.List of Hospitals of Jeevan Health Application

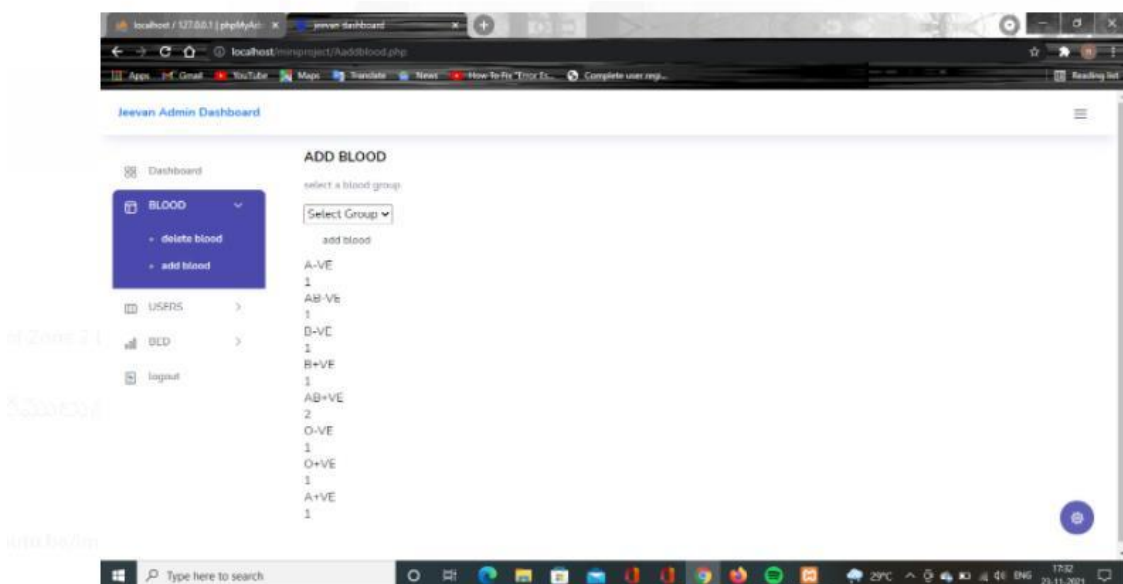


Fig7.Blood Details of Jeevan Health Application

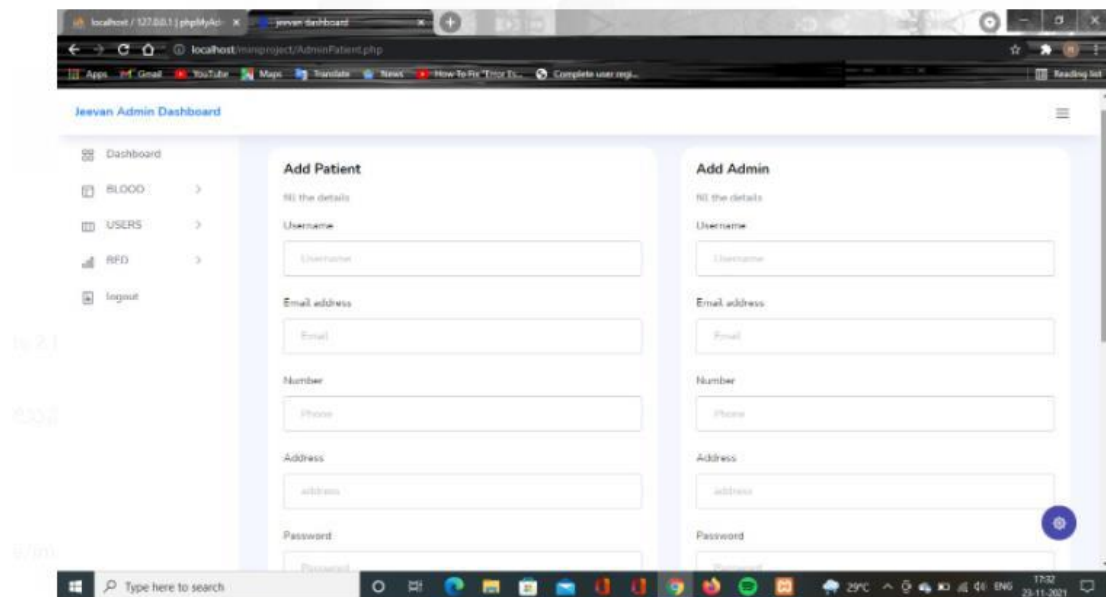


Fig8.Patient, Admin Details of Jeevan Health Application

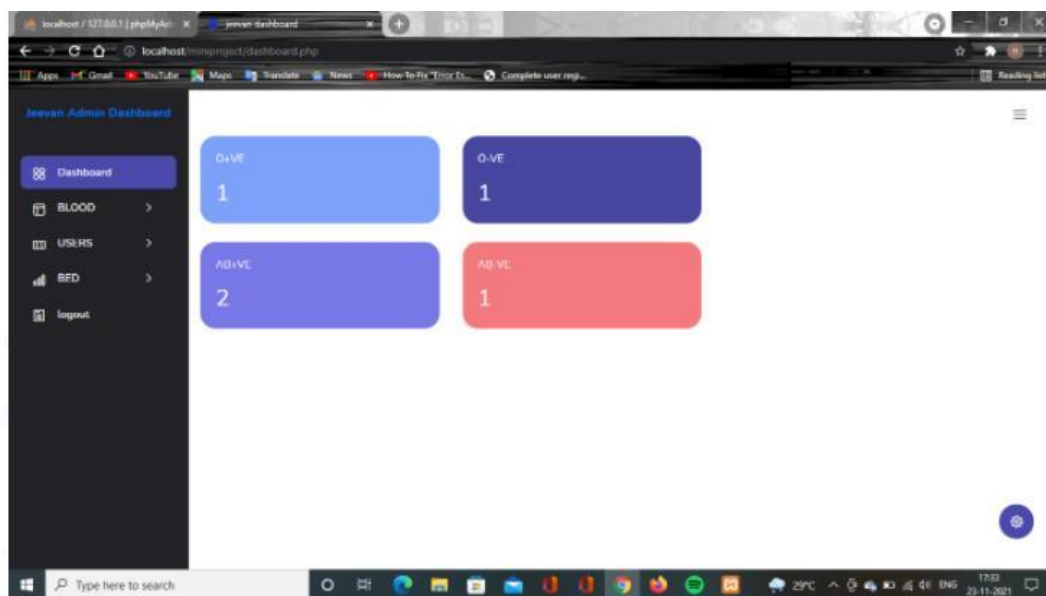


Fig9.Admin Dash board of Jeevan Health Application

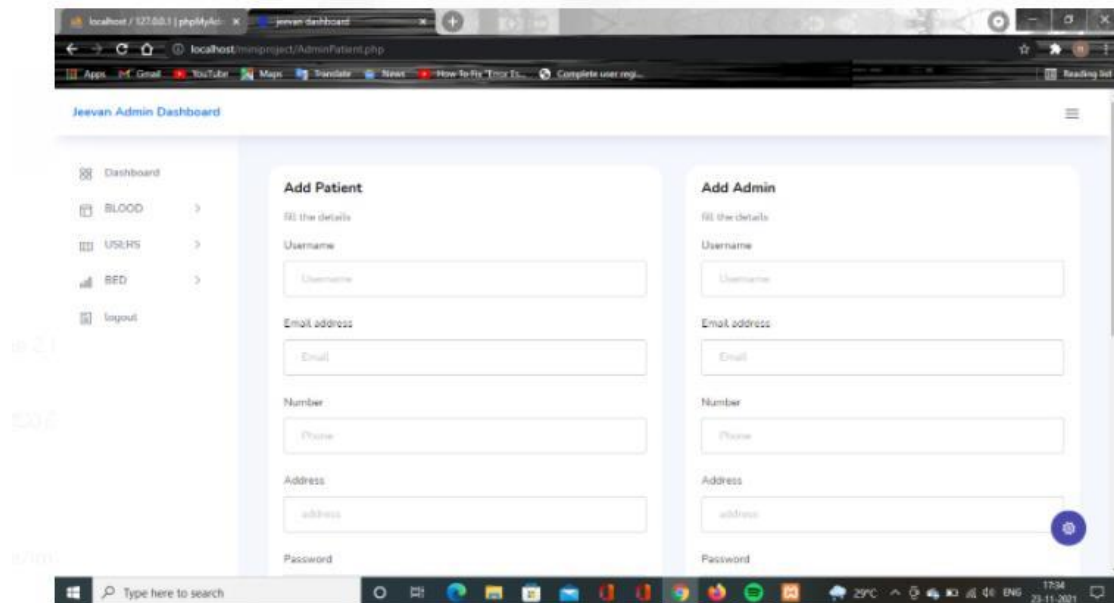


Fig10.Admin Opeartions of Jeevan Health Application

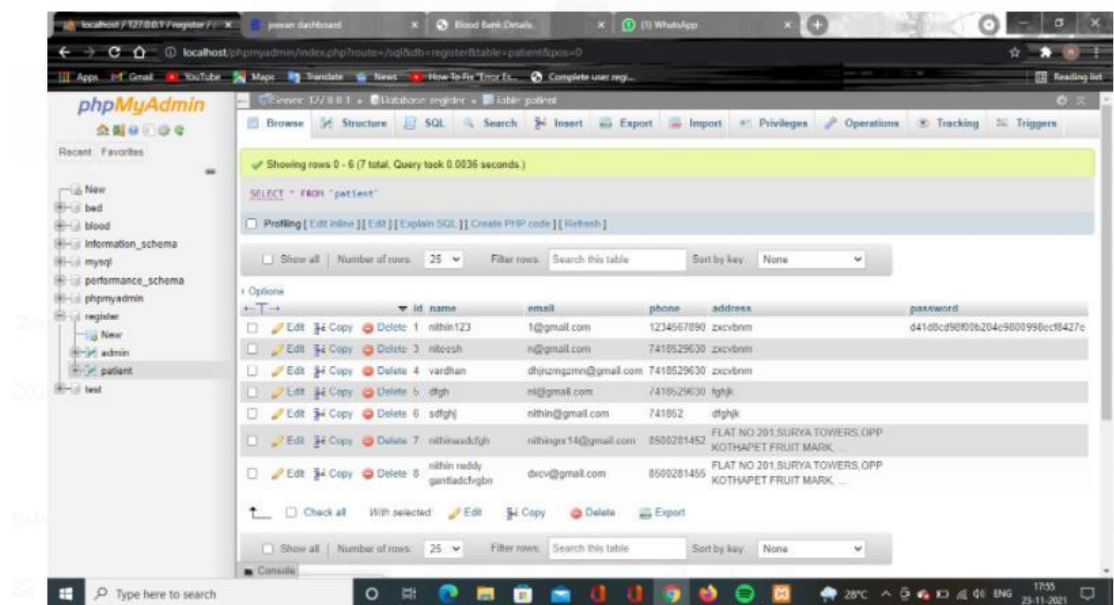


Fig11.Registered Details of Jeevan Health Application

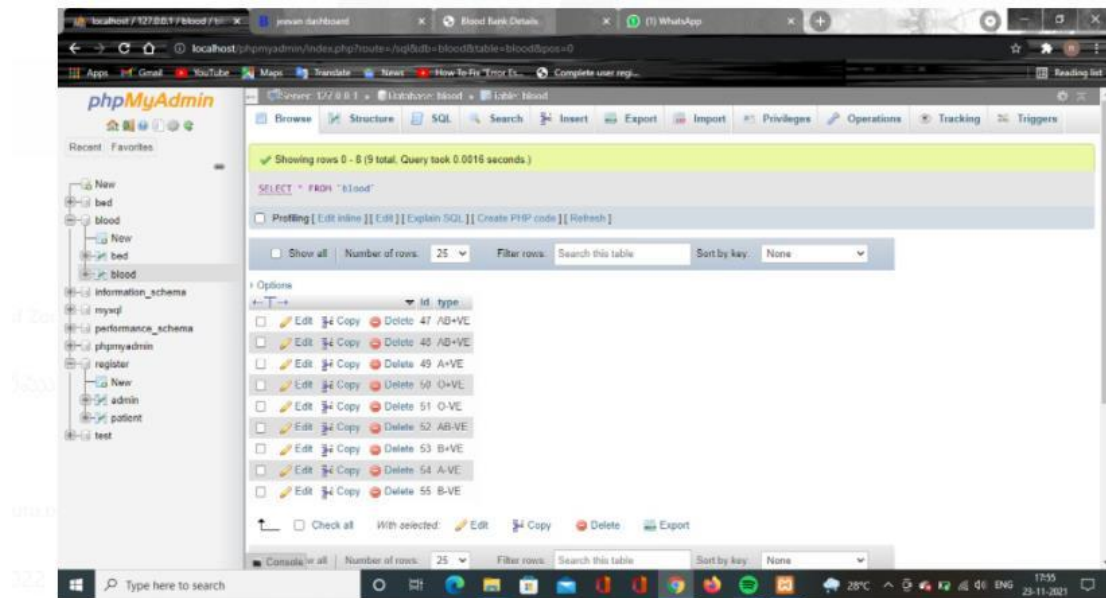


Fig12.Blood, Bed Bookings list of Jeevan Health Application

CONCLUSION AND FUTURE SCOPE

Conclusion

this technology is here to stay and will witness increased adoption in the future. Our system has been designed to cater to various requirements to provide better services for the patient through online. Going forward, it could have varied applications. This system saves costs, improves accuracy, reduces errors and could be up and running within no time, with 24/7 usability. The technologies used in the system have proven to be successful and are widely used in various similar systems. All the tests conducted gave positive results and the system was able to successfully fulfill patient needs, match it with the database and provide accurate results.

Future scope

In future more hospitals will be available on the website and more features will be added such as active and improvised geo location for tracking the nearest hospital, slot tracking ,patient history details, online pharmacy, online video call appointment and many more

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