



ONLINE CARDIAC E-SOLUTION SYSTEM

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ABSTRACT

Cardiac solution is very essential to doctors to handle the patient reports and their issues. It is very useful for doctors to get the appropriate advice from the experts. The system is helpful for taking advices from expert doctors which can be taken by general practitioners. Cardiac problems can be recognized by ECG (Electro Cardiogram). General Practitioners cannot recognize or read ECG reports of patient. So General Practitioners can take expert advice by uploading reports on the Cardiac Solution Website. By these advices the GP's Knowledge also gets improved.

The GP initiatives have encouraged developing this system to facilitate their day to day checkups. The online cardiac solution will help in quickly advices about the patients and the various doctors (Experts) can give their advices.

With the effective use, any Doctor can apply the "Cardiac Solutions" for Quick Advices and can save a life.

Keywords:- Cardiac, ECG reports

INTRODUCTION



Heart and blood vessel disease - also called heart disease - includes numerous problems, many of which are related to a process called atherosclerosis. Atherosclerosis is a condition that develops when a substance called plaque builds up in the walls of the arteries. This buildup narrows the arteries, making it harder for blood to flow through. If a blood clot forms, it can stop the blood flow. This can cause a heart attack or stroke.

A heart attack occurs when the blood flow to a part of the heart is blocked by a blood clot. If this clot cuts off the blood flow completely, the part of the heart muscle supplied by that artery begins to die. Most people survive their first heart attack and return to their normal lives to enjoy many more years of productive activity. But having a heart attack does mean you have to make some changes. The doctor will advise you of medications and lifestyle changes according to how badly the heart was damaged and what degree of heart disease caused the heart attack.

An ischemic stroke (the most common type) happens when a blood vessel that feeds the brain gets blocked, usually from a blood clot. When the blood supply to a part of the brain is shut off, brain cells will die. The result will be the inability to carry out some of the previous functions as before like walking or talking. A hemorrhagic stroke occurs when a blood vessel within the brain bursts. The most likely cause is uncontrolled hypertension. Some effects of stroke are permanent if too many brain cells die after a stroke due to lack of blood and oxygen to the brain. These cells are never replaced. The good news is that some brain cells do not die – they are only temporarily out of order. Injured cells can repair themselves. Over time, as the repair takes place, some body functioning improves. Also, other brain cells may take control of those areas that were injured. In this way, strength may improve, speech may get better and memory may improve. This recovery process is what rehabilitation is all about.

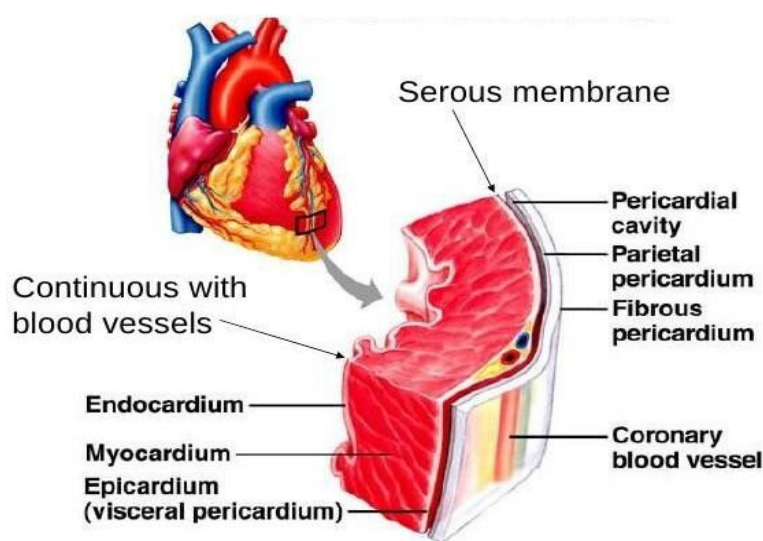


Fig.1.2 Cardiac Structure

LITERATURE SURVEY

The system which is used now days has some drawbacks which need to be improved for better performance. Village doctors have not much knowledge about cardiac solution. This difficulty solves in this project by creating forum. In this forum doctor asked their query & another specialist doctor give response to doctor's query. This communication is very effective for un-knowledge doctors.

The main objective of this application will provide the forum like question answer type. When we visit website then 1st time opens the home page of user dashboard. In this page some highlights are displayed. In about us page some information about cardiac solution. Then afterwards in contact we page some basic details about cardiac forum like address, contact no & email address. In sign up page is nothing but a registration page means doctor 1st register their basic details like name, email address, contact no, clinic name & etc. Then afterword doctor sign in on website. When doctor sign in on website then open user dashboard page. In above webpage some menus are displayed like my forum, my forums post, change password, my profile & knowledge section. In my forum module we can see the doctors asked question & their respective answers. In my forum post module doctor can see their own post. In change password module doctor can change their password any time.

In my profile module doctor can see their own profile & in this we provide also update of doctor details. In knowledge module provide some updated information about cardiac solution.

Admin dashboard provide for admin only. In this module some menus are listed like dashboard, user details, change password, user post, knowledge section, news highlights admin dashboard is same like as user dashboard. In user details module admin can see registered doctors in this module we give status section. When admin approved the status section then only doctor post their query & so on. In change password admin can change their password at any time. In user post module admin can see doctors post & in this module admin have some authority i.e., doctors post is not correctly/appropriately then admin delete their post. Knowledge section is same like as user dashboard. In news highlights admin post news related on cardiac solution which is displayed on users home page.

METHODOLOGY

In this there are two modules:

- Admin
- User

1. Admin:

Admin have their appropriate user-id & password .so with the help of user-id and password admin can sign-in and go to the admin dashboard. In dashboard have five sections-

User Details:

It shows the registered doctors & their basic details.

Change Password: In this section admin can change their password with old password.

User Post: This section shows doctors post means doctors query.

Knowledge Section: In this section, some updated information displayed on cardiac solution. Information is like pdf file, images etc.

News Highlights: In this section admin displayed some latest news on website .

2. User:

User/doctor have their appropriate user-id & password .so with the help of user-id and password doctor can sign-in and go to the user dashboard.

In dashboard have five sections-

My Forum: It shows the doctors query & their respective answers.

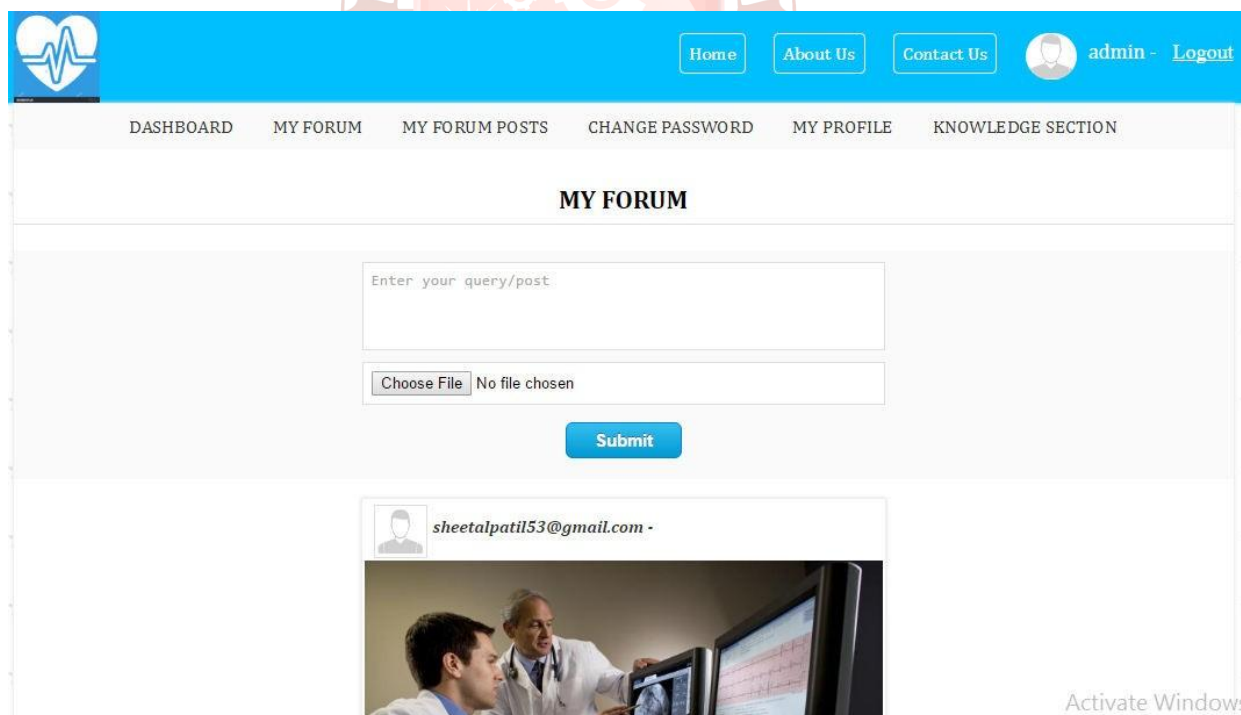
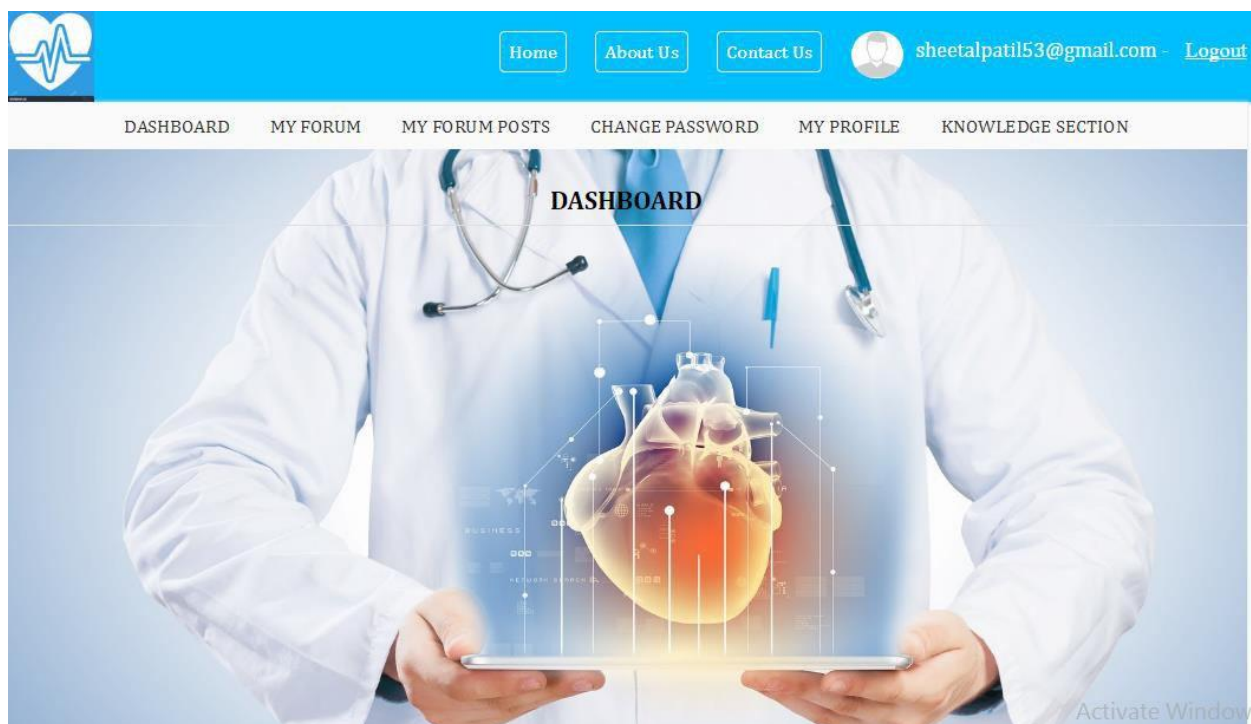
My Forum Post: In this section user can see only their posts.

Change Password: In this section user can change their password with old password.

My Profile: In this section, doctor can see their details & also update the details.

Knowledge Section: In this section, some updated information displayed on cardiac solution. Information is like pdf file, images etc.

RESULTS



CONCLUSION

By introducing the concept of desktop bases application using php technology in the Field of the communication we can make our communication more efficient and faster, with greater efficiency. We can display the messages with less errors and maintenance.

This system can be used for all degree doctors. This is very essential for those doctors who have not enough knowledge about cardiac solution. This is health related website. This website created one forum for all doctors who have post query & get answer for appropriate query.

REFERENCES

1. "Cardiologists in Delhi NCR".Full Details Information. 26 March 2019.
2. "Specialties & Subspecialties".American Osteopathic Association.Archived from the original on 2015-08-13.Retrieved 23 September 2012.
3. Hamblin, James (January 27, 2015) What Doctors Make. theatlantic.com
4. Fauci, Anthony, et al. Harrison's Textbook of Medicine. New York: McGraw Hill, 2009.
5. Braunwald, Eugene, ed. Heart Disease, 6th edition. Philadelphia: Saunders, 2011.
6. "Trends in Causes of Death among Older Persons in the United States" (PDF).
7. Golomb Beatrice A.; Dang Tram T.; Criqui Michael H. (2006-08-15)."Peripheral Arterial Disease".Circulation. 114 (7): 688–699. doi:10.1161/CIRCULATIONAHA.105.593442. PMID 16908785.S2CID 5364055.
8. Yazdanyar, Ali; Newman, Anne B. (2010-11-01). "The Burden of Cardiovascular Disease in the Elderly: Morbidity, Mortality, and Costs". Clinics in Geriatric Medicine. 25 (4): 563–vii. doi:10.1016/j.cger.2009.07.007. ISSN 0749-0690.PMC 2797320. PMID 19944261

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