



# Medical Information System



# Teamwork:

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# Content :



# Problem definition

- Nowadays, we face the problem of disability to maintain the medical history of the patient.
- So it is possible that the doctor may stuck in faults within diagnosing patient condition.
  - i. Wrong medication
  - ii. May happen confliction with other disease



# Objectives

- We decided to create Medical Information System web application to maintain patient history (diagnosis , Radiology , Medical analysis , treatments , Drugs ) .
- User can create his own account that include his medical history.



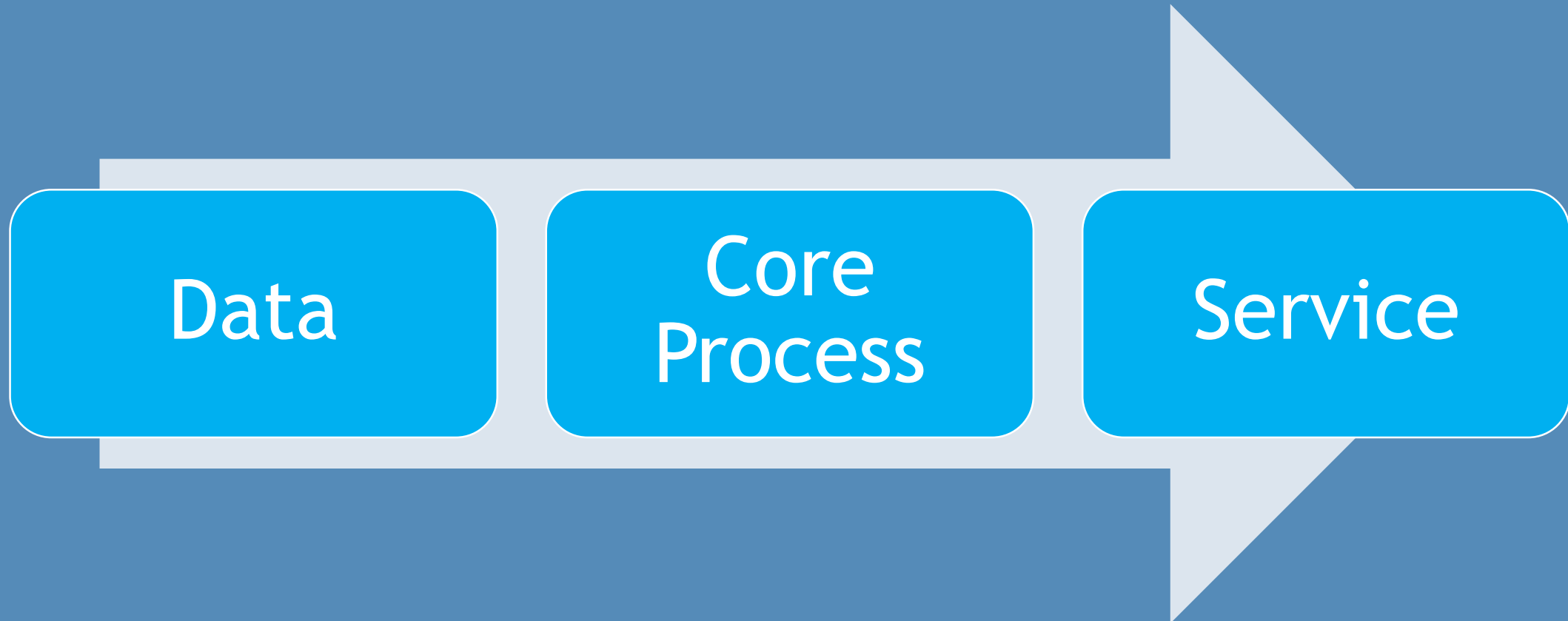
# Motivation

- Our system is more secure , flexible and easy to use.
- Facilitate the process for the doctors to present the best solution to the patient through analysis and processing of patient medical history.



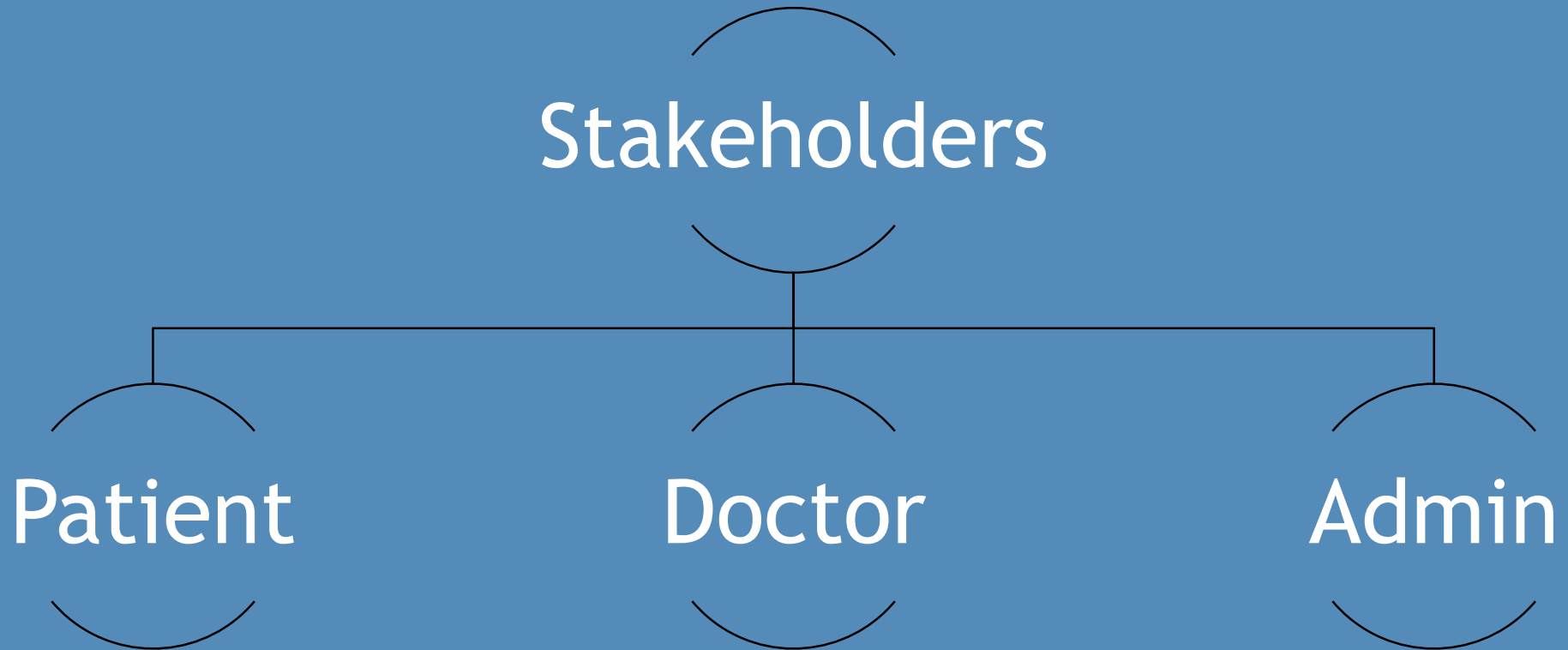
# Analysis

- Input/output.



# Analysis

- Input/output
- Stakeholders.





# Methodology

- Tools.
- Techniques.
- Technologies.
- Frameworks.



# Tools

- Visual studio 2013
- SQL Server management studio 2012
- SQL Express 2008
- Photoshop



# Technologies

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graph TD; Technologies --- Design; Technologies --- Development; Technologies --- DataModel[Data Model]; Technologies --- DBEngine[DB Engine]; Design --- DesignList[HTML, CSS, JavaScript]; Development --- DevelopmentList[C#, ASP.NET]; DataModel --- DataModelList[C# Entity Frameworks, LINQ, ADO.Net]; DBEngine --- DBEngineList[SQL];
```

Design

- HTML
- CSS
- JavaScript

Development

- C#
- ASP.NET

Data Model

- C# Entity Frameworks
- LINQ
- ADO.Net

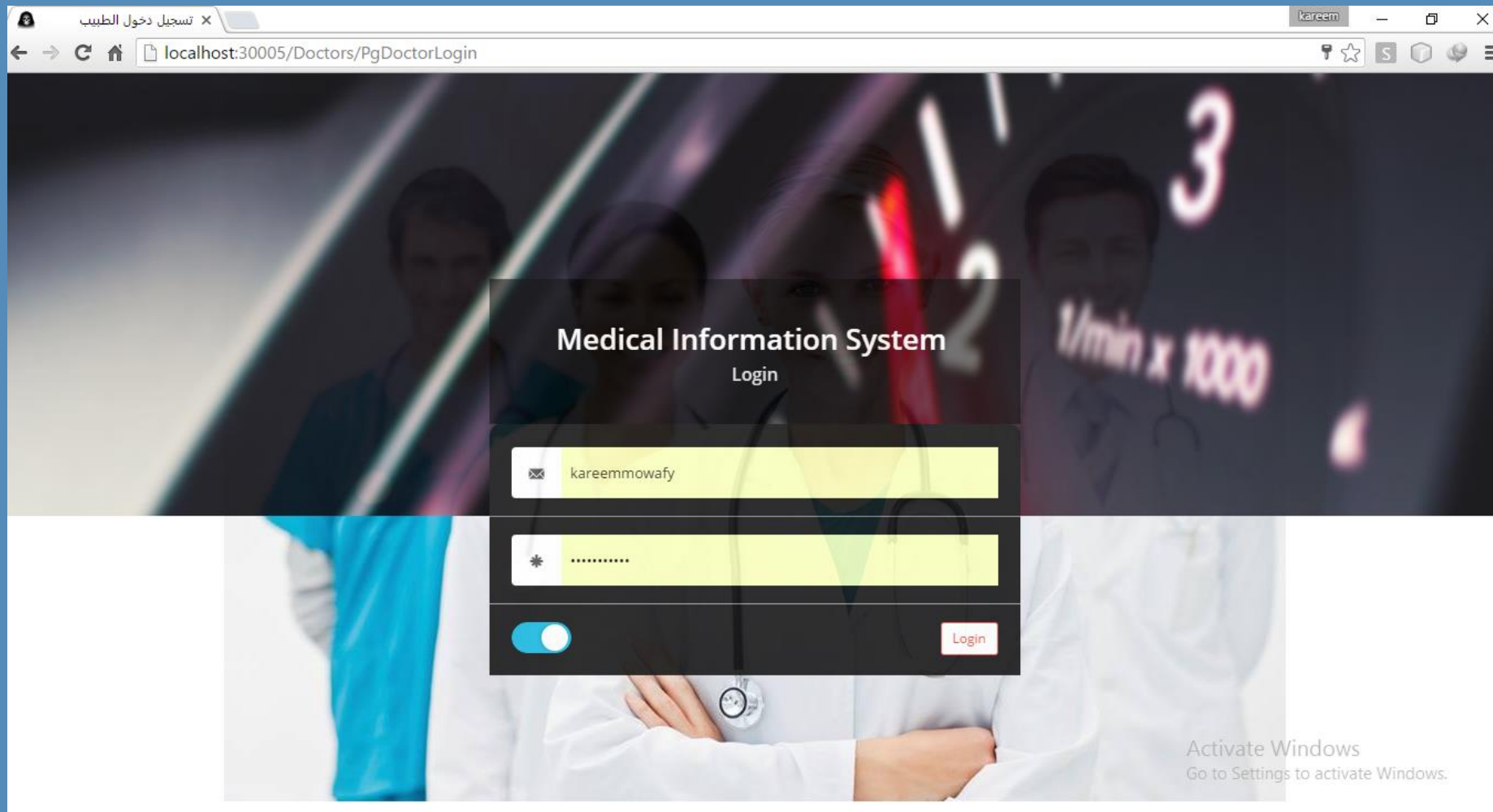
DB Engine

- SQL



# Test.

A doctor login and make search for a patient



# Test

Then he search for patient his name starts with Ahmed

Patients Search

Patient Name

Ahmed

Q Search

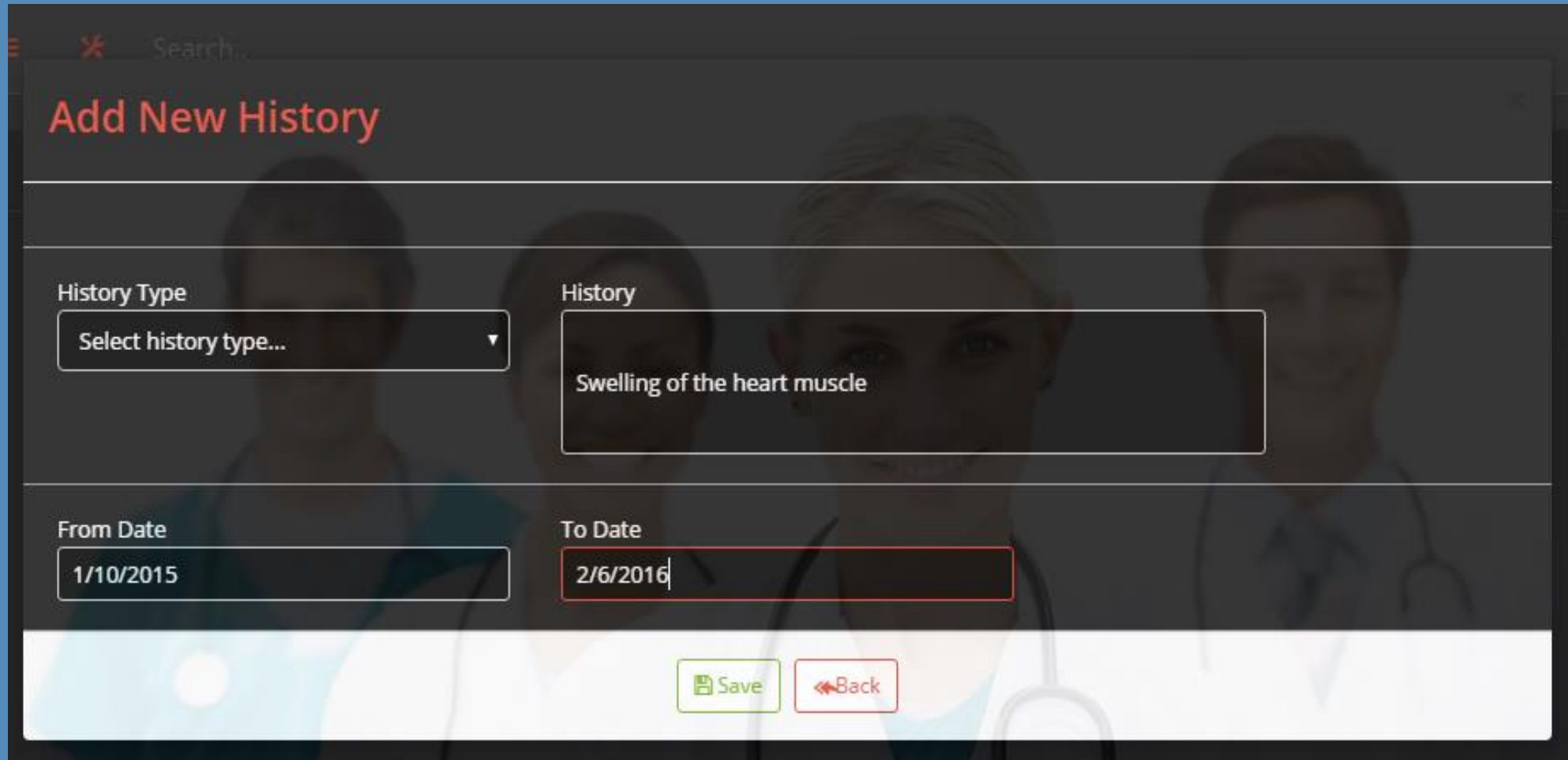
Patients

Patient Name	SSN	Phone	Email	View	History
Ahmed mohammed elsaid	2526954512115	0125369485	ahmedelsaid@yahoo.com		
Ahmed Ali Mahmmoud	236985874251	01236459875	mohamedkhaled@yahoo.com		
Ahmed Hossam Ibrahim	2536948175263	01236459875	ahmedhossam@yahoo.com		

Activate Windows

# Test.

Then doctor add medical history to his patient



The screenshot shows a web application interface for adding new medical history. At the top, there is a search bar with a magnifying glass icon and the text "Search...". Below this is a section titled "Add New History" in red text. The form is divided into two main sections. The first section has two fields: "History Type" with a dropdown menu showing "Select history type..." and a downward arrow, and "History" with a text input field containing "Swelling of the heart muscle". The second section has two date fields: "From Date" with a text input field containing "1/10/2015" and "To Date" with a text input field containing "2/6/2016". At the bottom of the form, there are two buttons: a green "Save" button with a floppy disk icon and a red "Back" button with a left arrow icon.

Search...

## Add New History

History Type

Select history type...

History

Swelling of the heart muscle

From Date

1/10/2015

To Date

2/6/2016

Save Back

# Conclusions

Finally we designed a web application that save every patient history such as :

- Medical history data.
- The results of laboratory tests.
- Diagnostic.
- Radiology.

These web application enable doctor and patient to login and make doctor be able to search patient ,add patient and add history to his patient .

Every doctor and patient stores his personnel information including his name , SSN, phone number ,location and birthdate .



# Future Work

- Attaching the android application to the Web application through a web service.
- Completing the Dashboard to Control and manage the web application.
- Cross Mobile application.
- Rating the Web application.





**THANK YOU**

