

**USER'S
MANUAL**

***Heart Disease
Prediction System***

USER'S MANUAL

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1.0 GENERAL INFORMATION

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General Information section explains in general terms the system and the purpose for which it is intended.

1.1 System Overview

Heart Disease Prediction System is an java application which provides assistance to the doctor. This application collects the user data to provide correct prediction of whether the user suffers from heart disease or not. Application also helps the user to find remedy for the related heart disease.

1.2 Organization of the Manual

The user's manual consists of five sections: General Information, System Summary, Getting Started, Using the System, and Reporting.

- General Information section explains in general terms the system and the purpose for which it is intended.
- System Summary section provides a general overview of the system. The summary outlines the uses of the system's hardware and software requirements, system's configuration, user access levels and system's behavior in case of any contingencies.
- Getting Started section explains how to use the system. The section presents briefly system menu.
- Using The System section provides a detailed description of system functions.
- Reporting section describes in what way information collected by the application are presented and how to access the information.

2.0 SYSTEM SUMMARY

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System Summary section provides a general overview of the system. The summary outlines the uses of the system's hardware and software requirements, system's configuration, user access levels and system's behavior in case of any contingencies.

2.1 System Configuration

Heart Disease Prediction System operates on desktop devices with windows operating system. The application requires connection to server (Wampp) in order to get access to database. The application requires Eclipse IDE and Tomcat server for proper working of JSP pages. After installation on the device, can be used immediately without any further configuration.

2.2 User Access Levels

Everyone can use application, but user need to register itself.

2.3 Contingencies

In case of lot of user request the server may crash because of unable to handle such request.

3.0 GETTING STARTED

3.0.GETTING STARTED

Getting Started section explains how to use the system. The section presents briefly system menu.

3.1 Installation and Logging In

Heart Disease Prediction System is an java application. User needs to install JDK, Eclipse, Tomcat Server and Wampp Server. After installing above softwares, user has to import the java code in eclipse and user has to then import the sql file for database .Now the user is free to use the application.

3.2 System Menu

Heart Disease Prediction System application mainly consist of two Buttons as shown in figure 1. These buttons represent each module of our system.

3.2.1 Home

This page consist of many tabs such as Checkup and History.

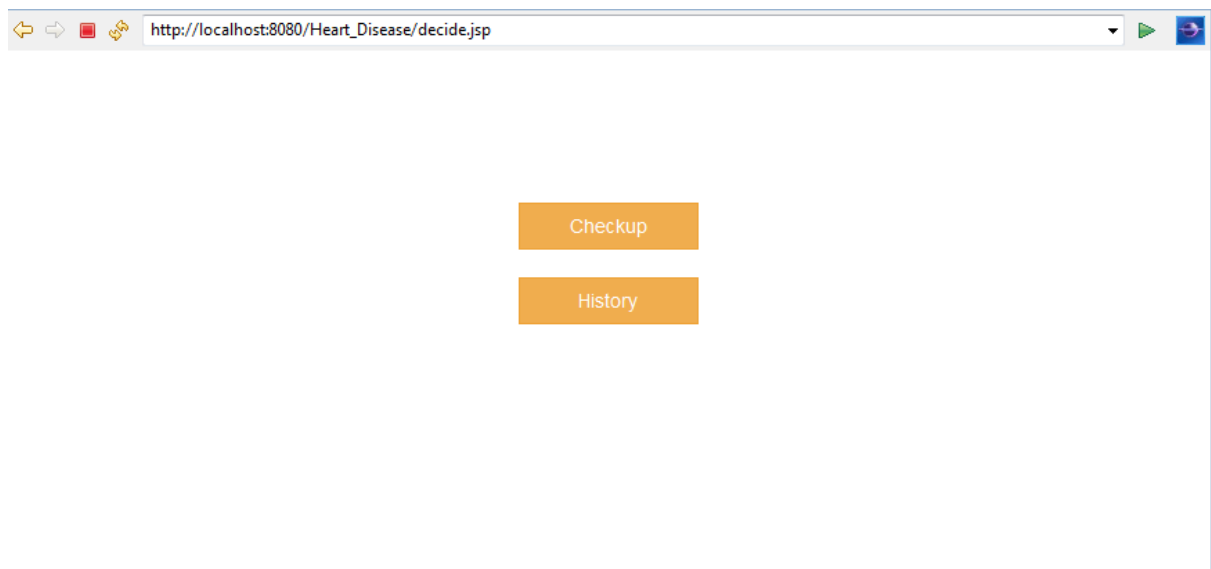


Fig1: Home page

3.2.2 Register

This page is the most essential tab for the user to register itself on our application. Tab consist of 3 fields and a register button. It accepts the important data needed from the user to register them on the application.

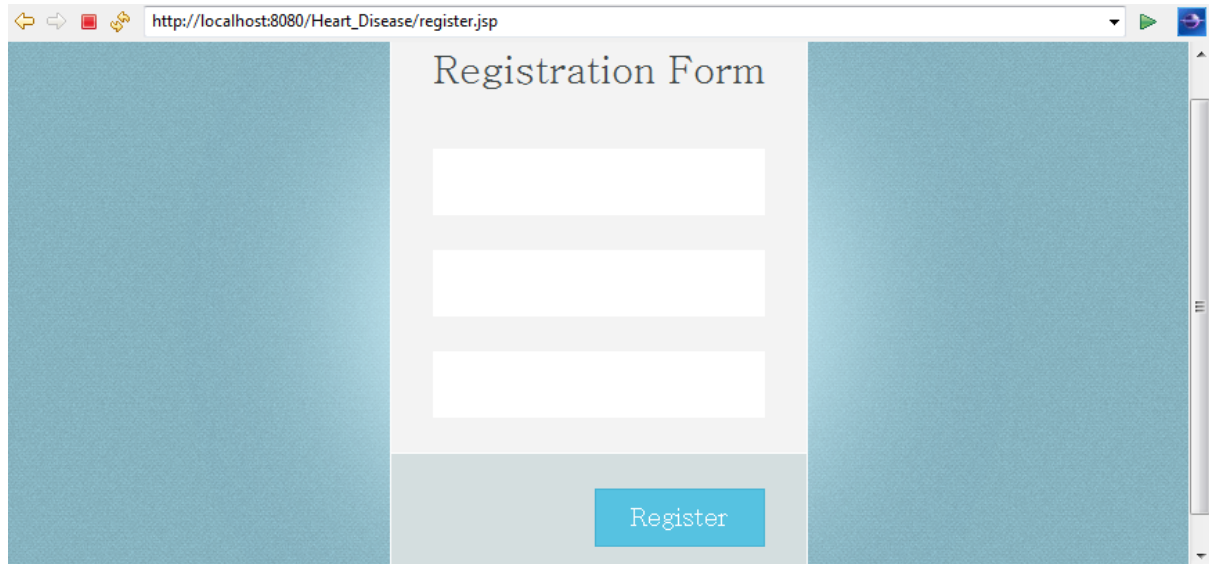
A screenshot of a web browser displaying the 'Registration Form' page. The browser's address bar shows 'http://localhost:8080/Heart_Disease/register.jsp'. The page has a light blue background. In the center, there is a white rectangular box containing the title 'Registration Form' in a serif font. Below the title are three empty white input fields stacked vertically. At the bottom of this box is a blue button with the text 'Register' in white. The browser's status bar at the bottom is empty.

Fig2: Register

3.2.3 Login

Once the registration is done, user can login to the website using the username and password as shown below.

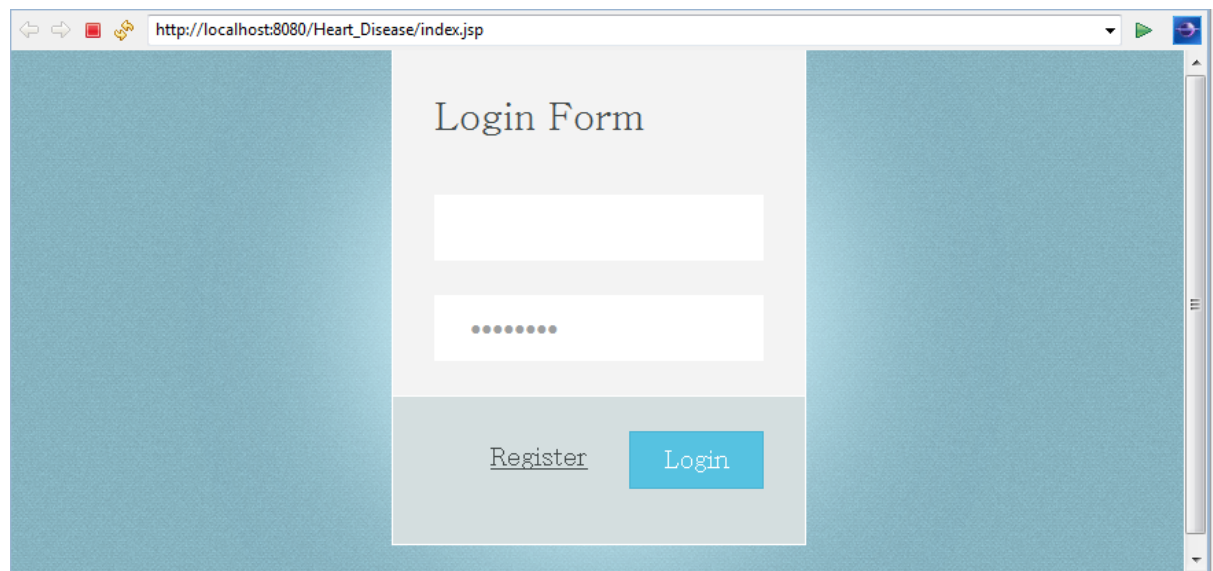
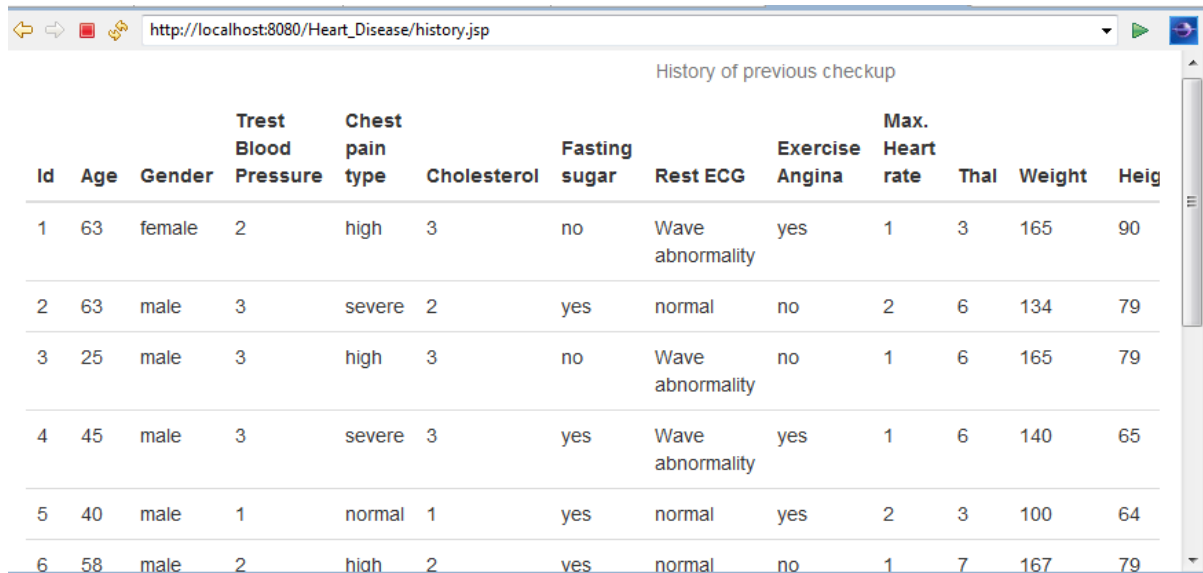
A screenshot of a web browser displaying the 'Login Form' page. The browser's address bar shows 'http://localhost:8080/Heart_Disease/index.jsp'. The page has a light blue background. In the center, there is a white rectangular box containing the title 'Login Form' in a serif font. Below the title are two input fields: the first is for a username and the second is for a password, indicated by a series of dots. At the bottom of this box are two buttons: a blue button labeled 'Register' and a blue button labeled 'Login'. The browser's status bar at the bottom is empty.

Fig3: Login

3.2.4 History

This page allow user of the website to view the registered users with their data according to the different attributes they entered and the result of previous predictions.

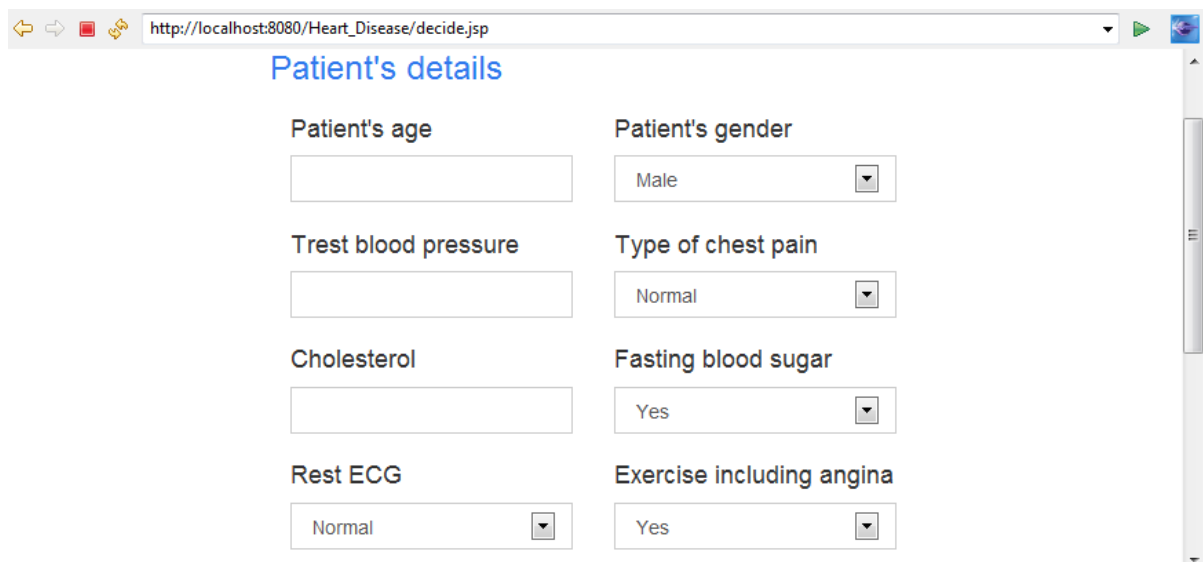


Id	Age	Gender	Trest Blood Pressure	Chest pain type	Cholesterol	Fasting sugar	Rest ECG	Exercise Angina	Max. Heart rate	Thal	Weight	Heig
1	63	female	2	high	3	no	Wave abnormality	yes	1	3	165	90
2	63	male	3	severe	2	yes	normal	no	2	6	134	79
3	25	male	3	high	3	no	Wave abnormality	no	1	6	165	79
4	45	male	3	severe	3	yes	Wave abnormality	yes	1	6	140	65
5	40	male	1	normal	1	yes	normal	yes	2	3	100	64
6	58	male	2	high	2	yes	normal	no	1	7	167	79

Fig4: History

3.2.5 Patient Details

This page consist of various fields and one submit button. This page allows logged in user to add data interms of various attributes.



Patient's details

Patient's age	Patient's gender
<input type="text"/>	Male <input type="button" value="v"/>
Trest blood pressure	Type of chest pain
<input type="text"/>	Normal <input type="button" value="v"/>
Cholesterol	Fasting blood sugar
<input type="text"/>	Yes <input type="button" value="v"/>
Rest ECG	Exercise including angina
Normal <input type="button" value="v"/>	Yes <input type="button" value="v"/>

Fig5: Patirnt Details

3.3 Exit the System

Heart Disease Prediction System application can be closed by selecting the back action on the browser.

4.0 USING THE SYSTEM

4.0. USING THE SYSTEM

This section provides a detailed description of system functions.

4.1 Home

This module is nothing but a website which consist of two tabs. Two tabs are Checkup and History.

4.2 Register

This tab is more important for the user to register themselves on system. It consist of 3 fields and a submit button. Once the user enters all the data and click on the submit button the system will check for the necessary validation. After validation it will register the user with history.

4.3 Login

Once the user is registered successfully they can login into the system using the login page. The user need to enter the username and password and click on the login button. The system will authenticate the hospital by verifying the username and password.

4.4 History

Once successfully logged in the user can search for previous history of the user. User can check for previous predictions regarding heart diseases of the user.

4.5 Patient Details

This page consist of various fields and one submit button. This page allows logged in user to add data. Once the registered user successfully login to the system then user can add the data in their database.

Age, Gender, Cholesterol , Chest pain are the fields present in this page that user need to enter in order to add the data.

5.0 REPORTING

5.0. REPORTING

Reporting section describes in what way information collected by the application are presented and how to access the information.

5.1 Report Capabilities

The data collected in the database can be viewed using History so that user will be aware about previous results.

5.2 Report Procedures

The report described in previous section can be accessed by typing [http://localhost:8080 /Heart_Disease/history.jsp](http://localhost:8080/Heart_Disease/history.jsp) in the address bar of the internet browser.