

University of Turku

# Health Predictor 1.0 User Manual

**A Vaadin Application for doctors to manage patient Profile and diagnose general medical condition**

**Developers:**

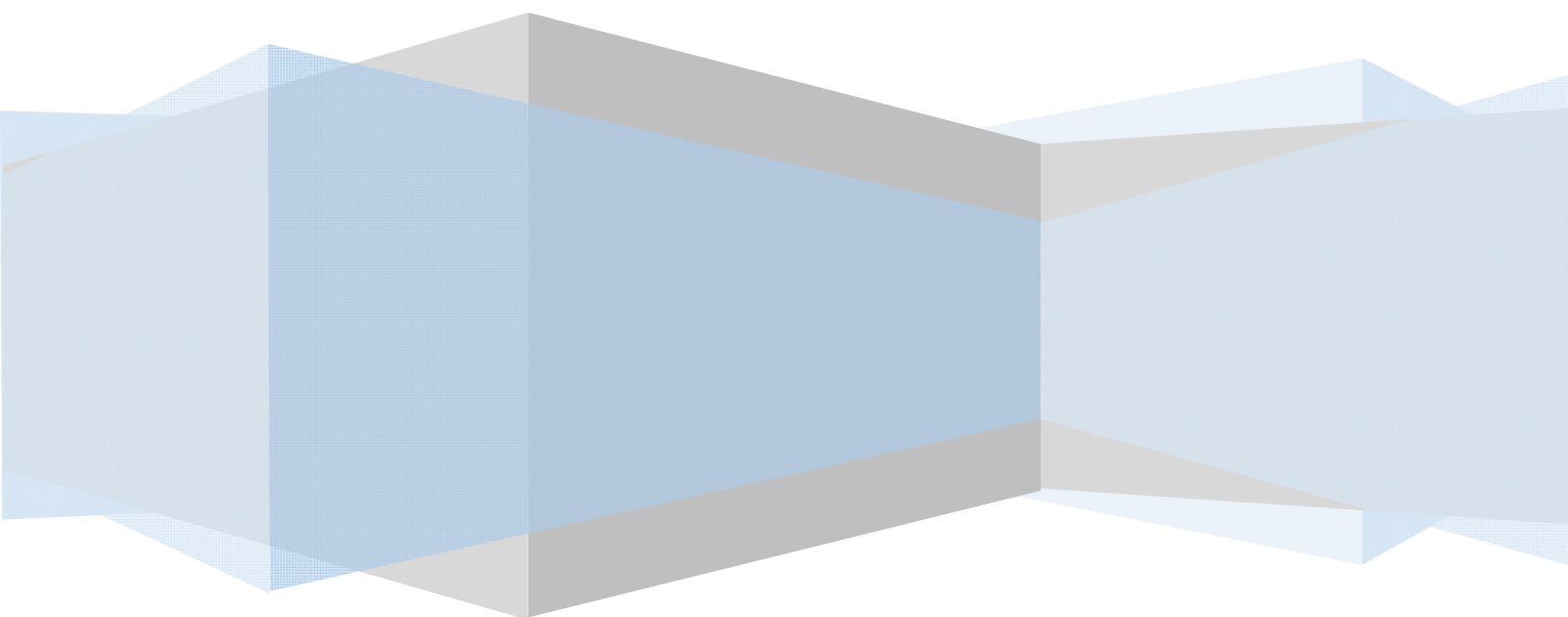
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# USER'S MANUAL

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## **1.0 GENERAL INFORMATION**

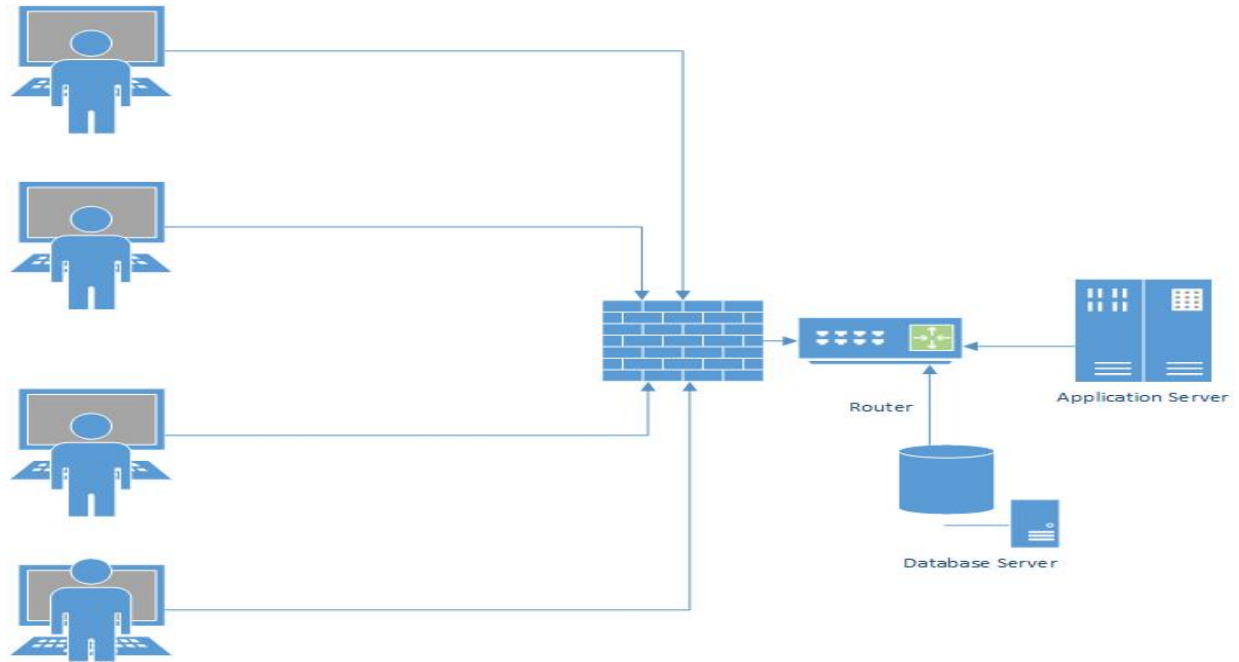
Health Predictor 1.0 web application software based on Multi-Tier Client/Server Architecture model. It is designed and developed for doctors for automatic and fast diagnosis of general ailment of patients. It allows doctors to keep track of patients anytime, anywhere.

### **1.1 System Overview**

- Who are the users?
  - Doctors and only doctors
- Why they need this application?
  - To manage and monitor patient profiles and diagnose simple medical condition

## 2.0 ARCHITECTURE REPRESENTATION

### 2.1 System Configuration



### 2.2 System Views

Views	Description
Home Page	This is the Default view which contains a calendar and a Notepad for the doctors to keep a note
Patient Dashboard	This view shows the list of patients which the current User is treating. It also gives the user a function to edit the patient profile
Create Patient Profile	A view with fields to create a new patient profile
Run Diagnosis	This view give the functionality for run diagnosis on patients

	based on previous medical history as well as new medical conditions
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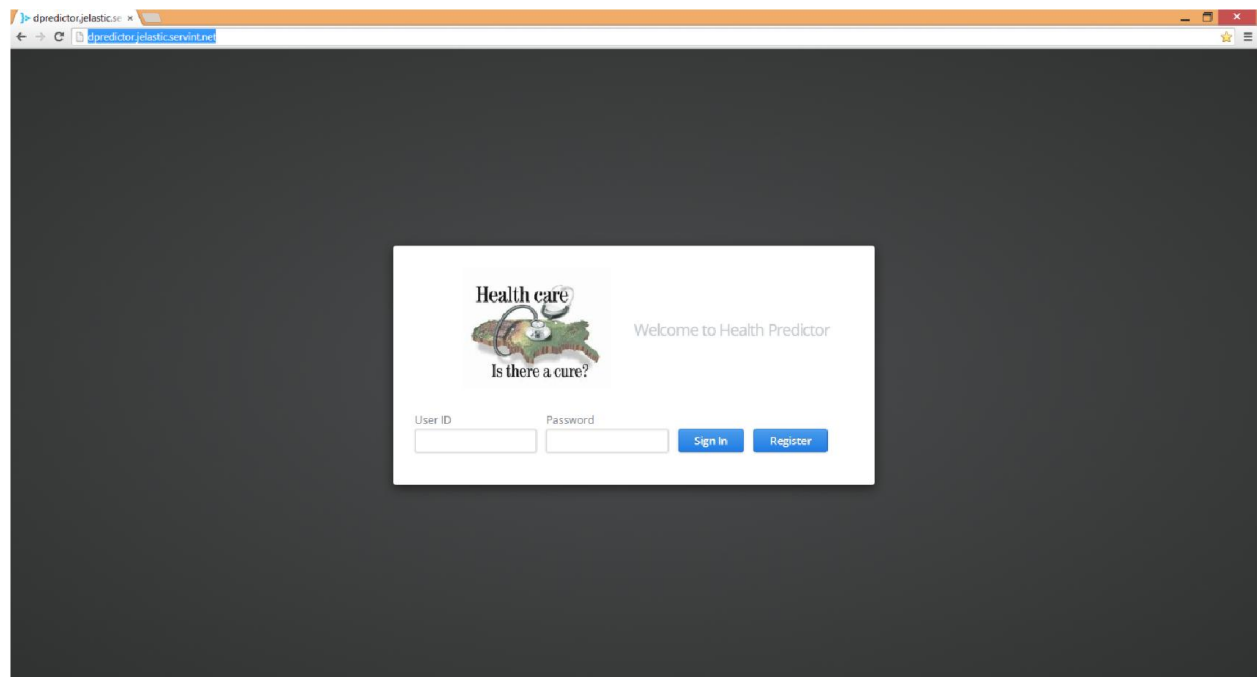
## 3.0 GETTING STARTED

### 3.1 Login to the system:

To login to the application you need to click or type the below URL:

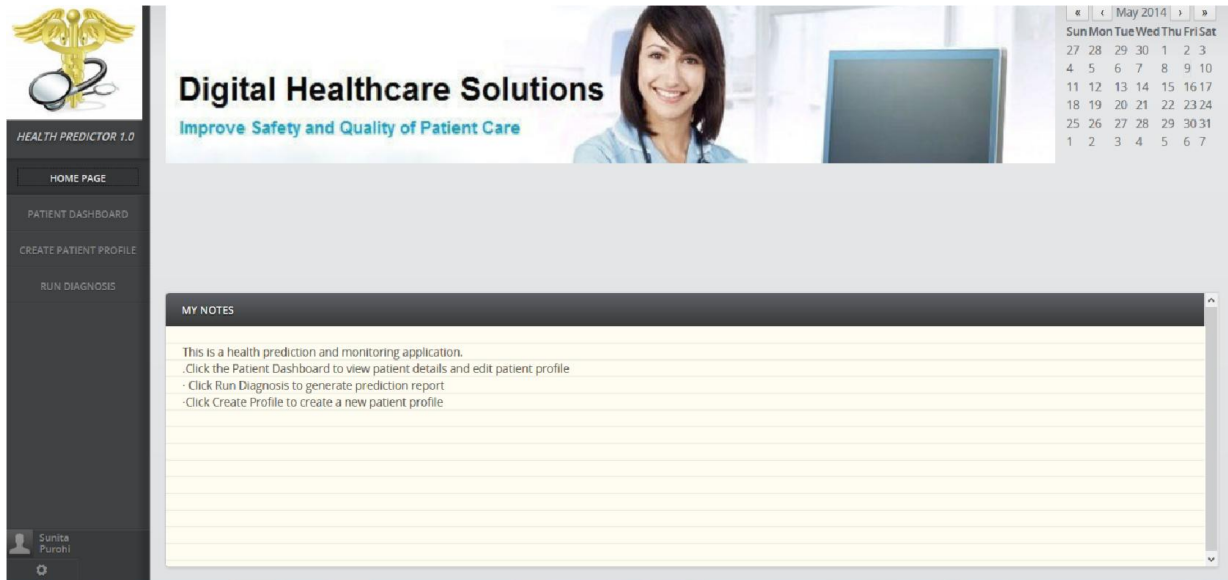
<http://dpredictor.jelastic.servint.net/>

The following page will appear



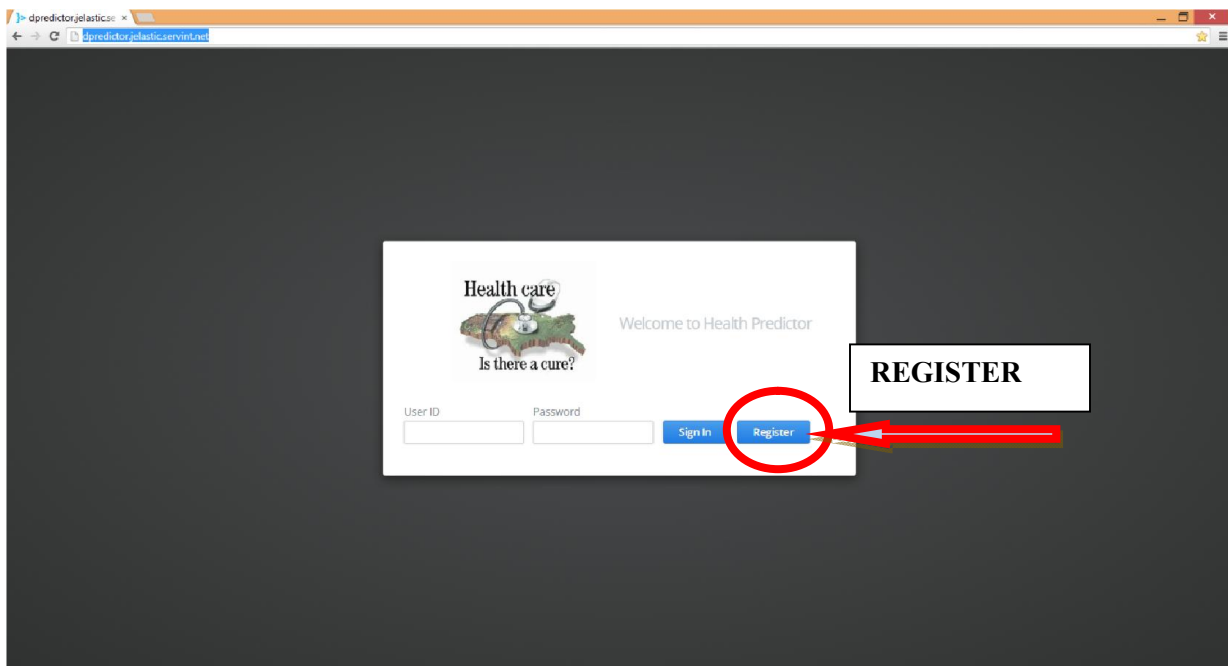
You need to type in your User ID and the Password to login into the application. The user id is generated at the time of registering.

After you have successfully logged in you will see the below page:

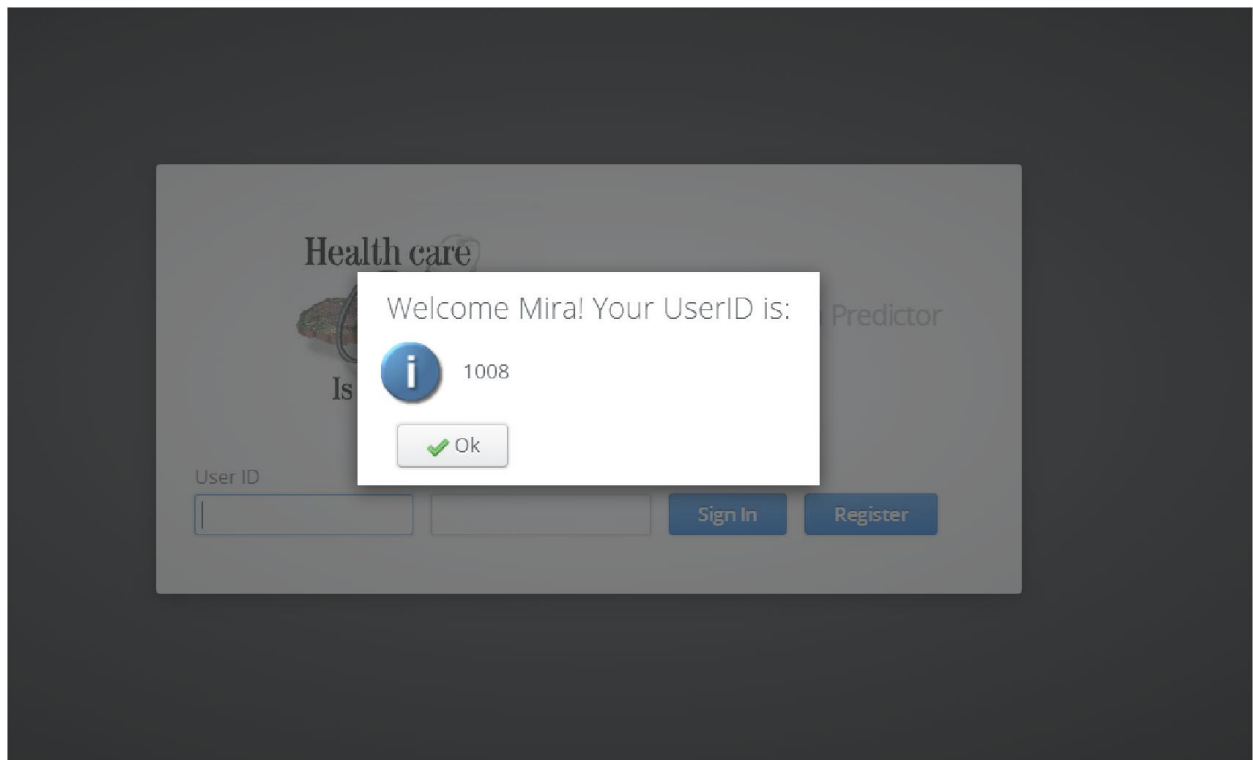


### 3.2 Register New User:

After you open the application beside Sign In button there is a Register Button which is used to register a new user to the system as shown in the below figure




When the register button is clicked a new popup window opens with the fields needed to create a new user. After filling the form click save button to create a new user. The User ID of the new user will be generated automatically and displayed on screen as shown below.



### 3.3 View and Update Patient Profile:

To View the patients list Click the Patient Dashboard Tab as shown below.



HEALTH PREDICTOR 1.0

HOME PAGE

PATIENT DASHBOARD


CREATE PATIENT PROFILE

RUN DIAGNOSIS

Sunita Purohi

Patient_ID	Patient_Name	Sex	Patient_Age	Patient_PhNo	Patient_Address
10	Mike	M	24	23,457,889	Turku
11	Mia	M	56	13,435,768	Turku
12	Reema	F	35	23,346,576	Helsinki
14	Bineet	M	29	1,134,567	Turku
17	mikkola	F	29	1,234,567	Turku
18	rety	F	23	1,234,567	Turku
19	reto	F	67	234	Turku
23	Ville	M	78	123	Turku

When you select a particular patient from the list, the **Detail view tab** shows up in the same page .Next to the **Detail view tab** there is an **Edit tab** which is used to update the selected patient details.



HEALTH PREDICTOR 1.0

HOME PAGE

PATIENT DASHBOARD

CREATE PATIENT PROFILE

RUN DIAGNOSIS

Sunita Purohi


Patient_ID	Patient_Name	Sex	Patient_Age	Patient_PhNo	Patient_Address
10	Mike	M	24	23,457,889	Turku
11	Mia	M	56	13,435,768	Turku
12	Reema	F	35	23,346,576	Helsinki
14	Bineet	M	29	1,134,567	Turku
17	mikkola	F	29	1,234,567	Turku
18	rety	F	23	1,234,567	Turku
19	reto	F	67	234	Turku
23	Ville	M	78	123	Turku

Detail view Edit

Details of selected patient:

Name: Mike  
 Age: 24  
 Sex: Male  
 Address: Turku  
 Phone Number: 23457889  
 Blood Pressure(mmHg-systolic): 23  
 Blood Sugar level(mmol/L): 45  
 Body temperature( degree F): 125  
 Cholesterol level(%): 123  
 Status: Alive





HEALTH PREDICTOR 1.0

HOME PAGE

PATIENT DASHBOARD

CREATE PATIENT PROFILE

RUN DIAGNOSIS

Sunita Purohi

Patient_ID	Patient_Name	Sex	Patient_Age	Patient_PhNo	Patient_Address
10	Mike	M	24	23457889	Turku

Details Edit

Edit the selected Patient's Data

Name:

Sex: ☐ Male ☐ Female

Age:

Address:

Phone Number(Only Numbers):

Blood Pressure(mmHg-systolic):

Blood Sugar level(mmol/L):

Body temperature( degree F):


Cholesterol level(%):

Status: ☐ Alive ☐ Dead

Save

### 3.4 Create New Patient Profile:

Click on the Create Patient Profile tab on the navigator to open form to create a new patient as shown below. When a patient is created successfully, by default the status of the patient is saved as **Alive**



HEALTH PREDICTOR 1.0

HOME PAGE

PATIENT DASHBOARD

CREATE PATIENT PROFILE

RUN DIAGNOSIS

Sunita Purohi

Create Patient Profile

Name:

Sex: ☐ Male ☐ Female

Age:

Address:

Phone Number(only Numbers):

Blood Pressure(mmHg-systolic):

Blood Sugar level(mmol/L):

Body temperature( degree F):

Cholesterol level(%):

General IllnessSymptoms

☐ 100 degree F or higher fever or feeling feverish

☐ Cough and/or sore throat

☐ Headaches and/or body aches

☐ Runny or stuffy nose

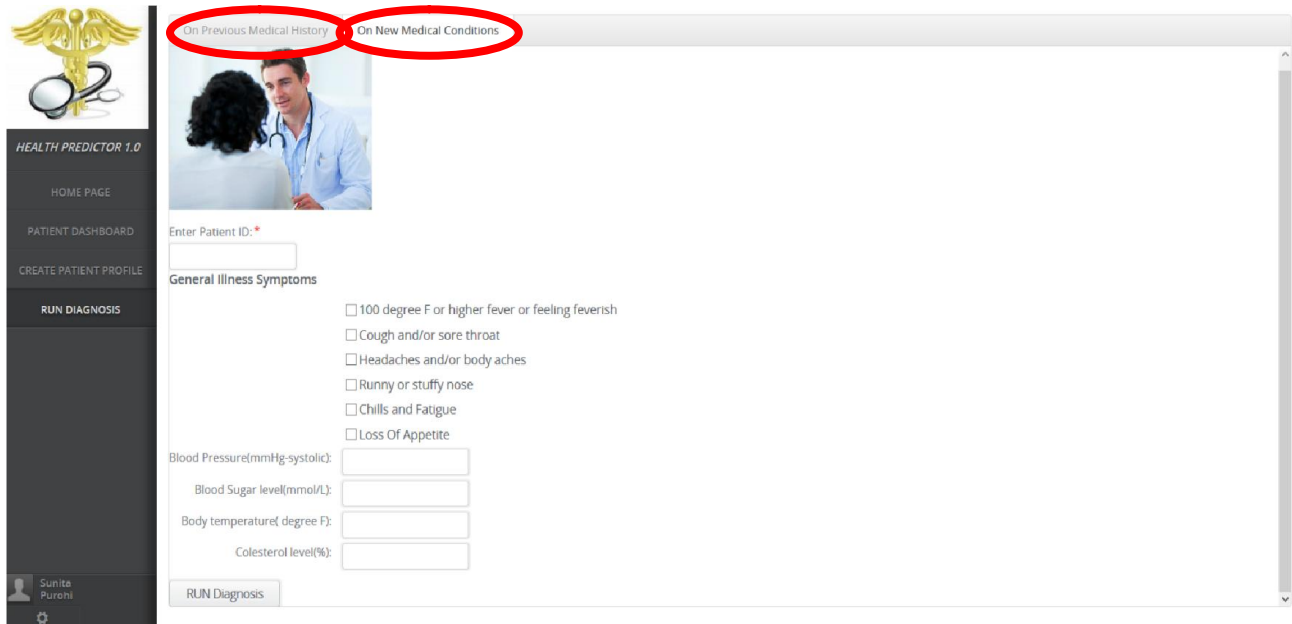
☐ Chills and Fatigue

☐ Loss Of Appetite

Save

### 3.5 Run Diagnosis:

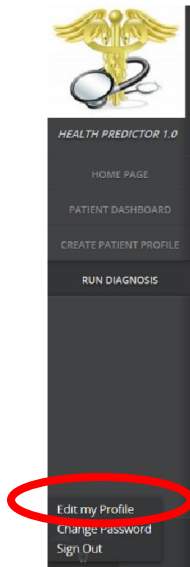
Click on the Run Diagnosis tab on the navigator to run a diagnosis on the patient medical conditions. You need to enter a valid patient ID and if the application will throw an error message if you enter a patient id and the patient is dead. You can perform a diagnosis on patient's previous medical history as well as new medical conditions. The figure shows the feature described above.



The screenshot displays the 'HEALTH PREDICTOR 1.0' application interface. On the left is a dark sidebar with a navigation menu containing: HOME PAGE, PATIENT DASHBOARD, CREATE PATIENT PROFILE, and RUN DIAGNOSIS (which is highlighted). At the bottom of the sidebar is a user profile for 'Sunita Purohi'. The main content area has a light gray header with two tabs: 'On Previous Medical History' and 'On New Medical Conditions', both of which are circled in red. Below the tabs is a header image of a doctor and patient. The form includes a text input for 'Enter Patient ID: \*'. Under the 'General Illness Symptoms' section, there are five checkboxes: '100 degree F or higher fever or feeling feverish', 'Cough and/or sore throat', 'Headaches and/or body aches', 'Runny or stuffy nose', and 'Chills and Fatigue'. Below these are five input fields for 'Blood Pressure(mmHg-systolic)', 'Blood Sugar level(mmol/L)', 'Body temperature( degree F)', and 'Cholesterol level(%)'. A 'RUN Diagnosis' button is located at the bottom left of the form area.

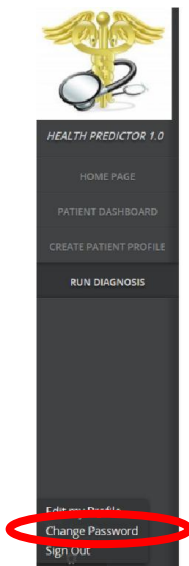
### 3.6 Edit User Profile:

Click the Edit My Profile tab as shown below and click save after making the changes

A dialog box titled 'Edit User Profile'. It contains four input fields: 'Name' with the value 'Sunita Purohi', 'Phone Number' with '343657676', 'Address' with 'Helsinki', and 'Speciality' with 'General'. At the bottom are two buttons: 'Save' and 'Cancel'.

### 3.7 Change Password:

Click the Change Password tab to change User password. The application throws an error message if the old password is incorrect

A dialog box titled 'Change Password'. It contains two input fields: 'Old Password' and 'New Password'. At the bottom are two buttons: 'Save' and 'Cancel'.

### 3.8 Sign Out:

Click the Sign Out tab as shown below



HEALTH PREDICTOR 1.0

HOME PAGE

PATIENT DASHBOARD

CREATE PATIENT PROFILE

RUN DIAGNOSIS

Edit my Profile

Change Password

Sign Out

On Previous Medical History

On New Medical Conditions



Enter Patient ID: \*

RUN Diagnosis