

**CS102****Summer 2014/2015**

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Criteria	TA/Grader	Instructor
Presentation		
Overall		

## **User Interface Report**

**( final)****10 July 2015**

### **1. Introduction**

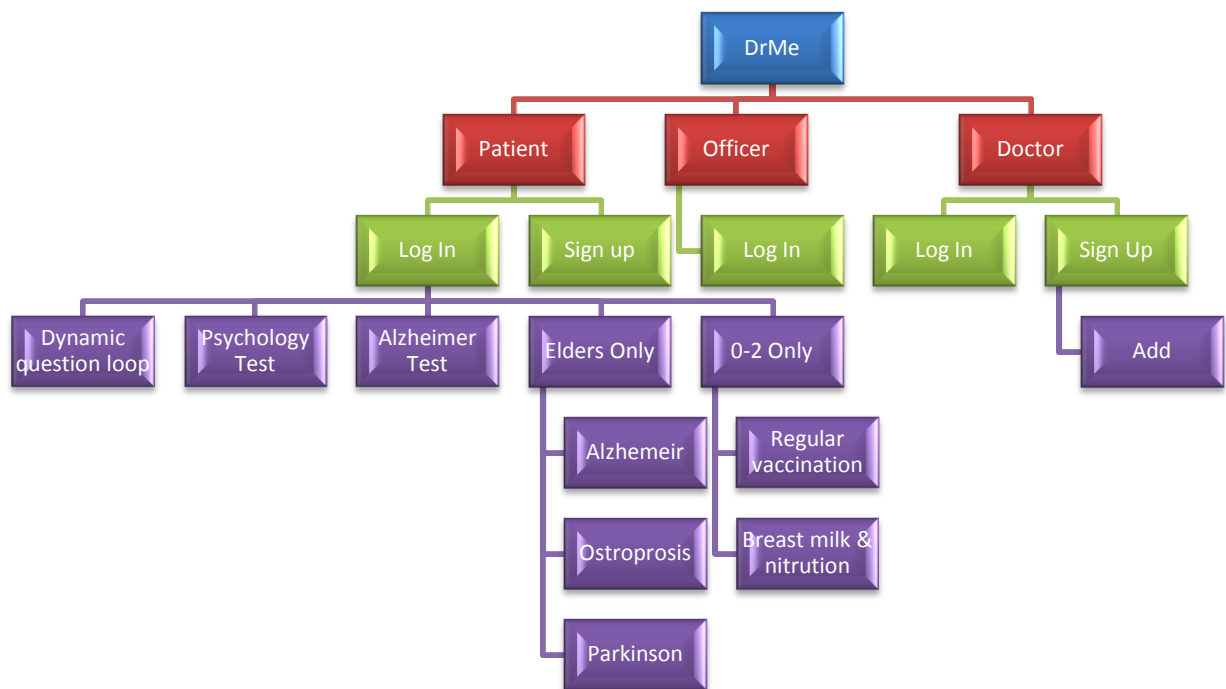
Medication of illness' and healthcare services maintain people a long life. Delivery of these services is an important issue to ensure the permanency of human kind. Public and private hospitals, health facilities, polyclinics, family doctors and pharmacies provide health services. However there are people who cannot receive these services due to transportation problems, iatrophobia (fear of going to doctor) etc.. Thereby our presented/proposed project Dr.Me , aims to advice/lend assistance people about their diseases.

Dr.Me which is a Desktop Java Application informs about illnesses considering their related symptoms and prognostic factors. Consecutively Dr.Me App, using the users' personal info, provides an access to related branch of hospital/healthcare by making appointments. Considering available diseases and their symptoms' list in this program, treatment of one disease will be faster for doctors, too. In large scale, educational data can be developed further by doctors. In case of an emergency situation, nearest hospital display and call-112 services are enhanced by Dr.Me. Moreover separate medical tests which are available for infants(Regular vaccination schedule and breast milk nutrition facts), for elders(Alzheimer test, Ostroprosis and Parkinson test),psychology test and an application which will provide the blood needed for health organizations like Kızılay are included in our program Dr.Me.

## 2. User-Interface Design

### A General Look To The Interface

Figure 1: General look to program



Program provides the three interface of doctor, patient, health officer which are represented as users that holds specific ID's. If the user has been using Dr.Me desktop application (signed up before) , do not need to create any other profile.

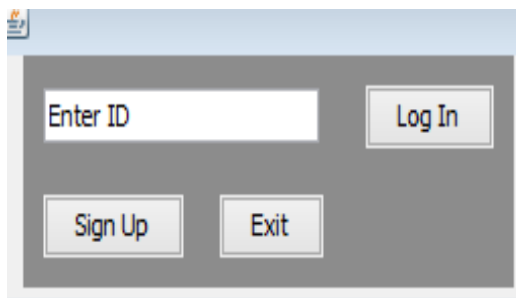
( data will be stored in the program ).



*Figure 2: Main Menu*

In Dr.Me's main menu;

- Users can easily access recent news via program's news feature, which is provided by the health officer.
- Users can log-in to or log off from their account (if they do not have an account, they can sign up in a few steps).
- All users will also be able to contact with emergency services in one-click.
- For some emergency cases, all users(no matter if they have any account or not) may get help about first aid by pressing "FIRST AID HELP" button.
- If users wonder about the program, Dr.Me application info is also accessible.

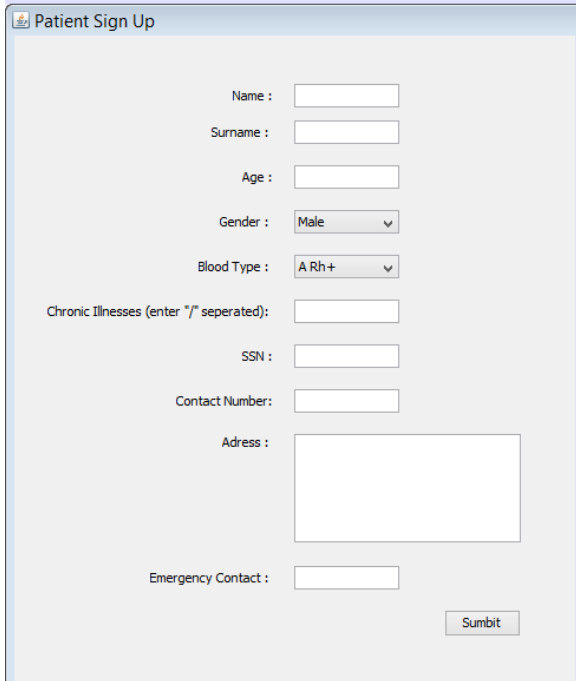


In log-in window, users should enter their ID number, which is given by the program automatically when the user signed up to Dr.Me.

To prevent some confusions, Dr.Me gives the ID numbers to users according to their account types. Patients' ID numbers start with "1", doctors' IDs start with "2", and "0" for health officers.

*Figure 3: Log-In Page*

This log-in page is common for all users (patients, doctors and health officers).



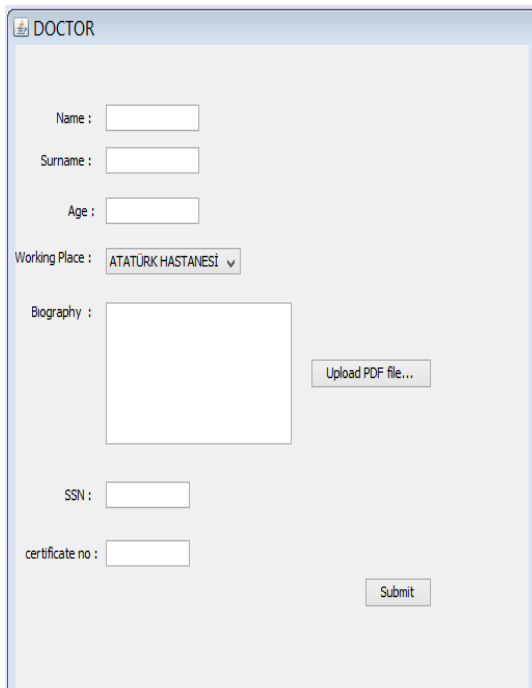
The 'Patient Sign Up' window contains the following fields and controls:

- Name :
- Surname :
- Age :
- Gender :
- Blood Type :
- Chronic Illnesses (enter "/" separated):
- SSN :
- Contact Number:
- Adress :
- Emergency Contact :
- 

In patient sign-up window;

- Program asks personal information about patient such as name, surname, age, gender, blood type etc.
- The age field is designed to accept integers from 0 to 120. If user enters an integer out of this bound, program will give an error message when pressed "Submit".
- Users are also able to enter an emergency contact info for some urgent cases.
- When user pressed "Submit", the program gives an ID automatically and saves the user information into database.

*Figure 4: Patient mode sign up window*

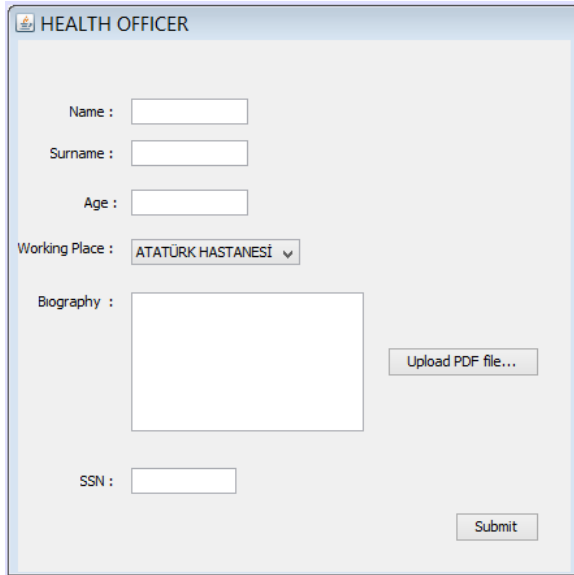


The 'DOCTOR' sign up window contains the following fields and controls:

- Name :
- Surname :
- Age :
- Working Place :
- Biography :
- 
- SSN :
- certificate no :
- 

*Figure 5: Doctor mode sign up window*

Doctors' sign up mode is certificate no. required in order to prevent unreal sign up to doctor mode.



HEALTH OFFICER

Name :

Surname :

Age :

Working Place :

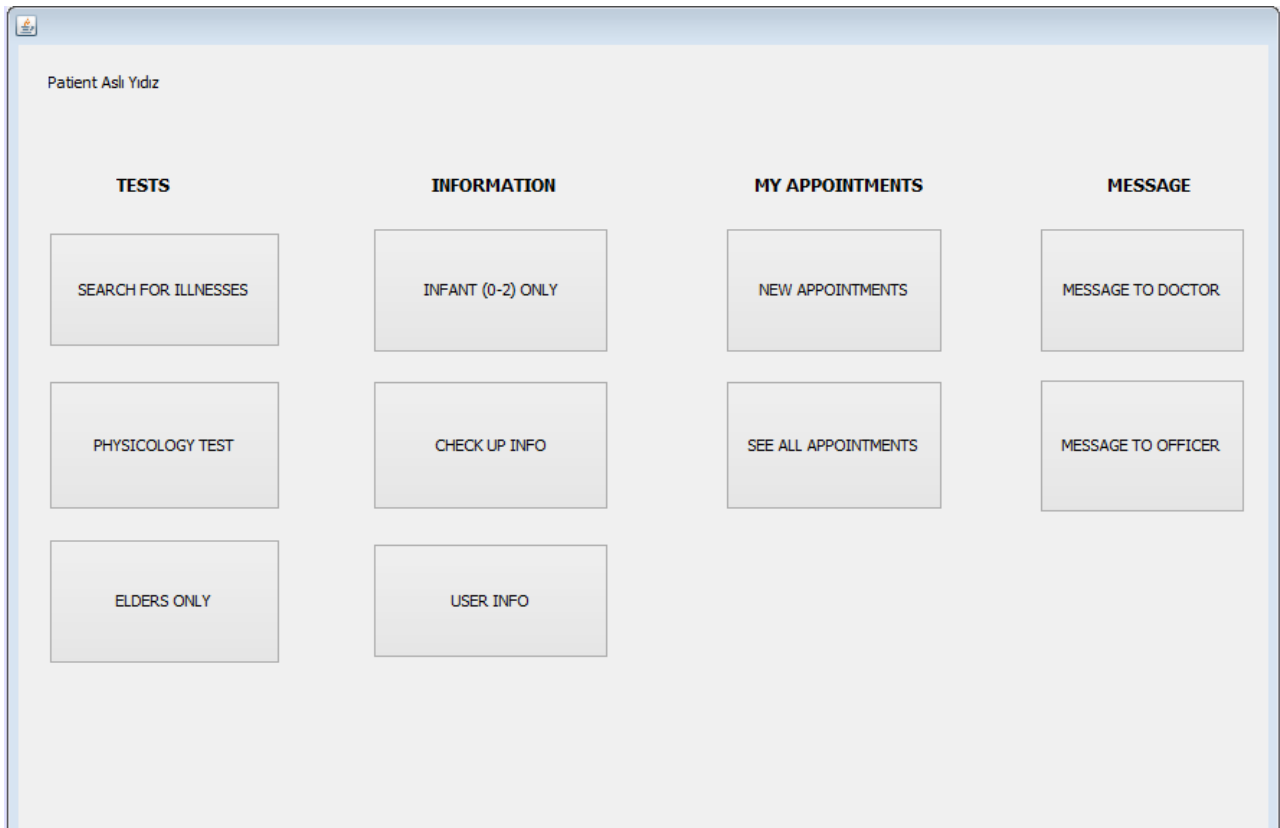
Biography :

SSN :

*Figure 6: Health officer mode sign up window*

In health officer sign up, officer is validated by asking for officer in his/her workplace by SSN.

### Patient Mode:



Patient Aslı Yıldız

TESTS	INFORMATION	MY APPOINTMENTS	MESSAGE
<input type="button" value="SEARCH FOR ILLNESSES"/>	<input type="button" value="INFANT (0-2) ONLY"/>	<input type="button" value="NEW APPOINTMENTS"/>	<input type="button" value="MESSAGE TO DOCTOR"/>
<input type="button" value="PHYSIOLOGY TEST"/>	<input type="button" value="CHECK UP INFO"/>	<input type="button" value="SEE ALL APPOINTMENTS"/>	<input type="button" value="MESSAGE TO OFFICER"/>
<input type="button" value="ELDERS ONLY"/>	<input type="button" value="USER INFO"/>		

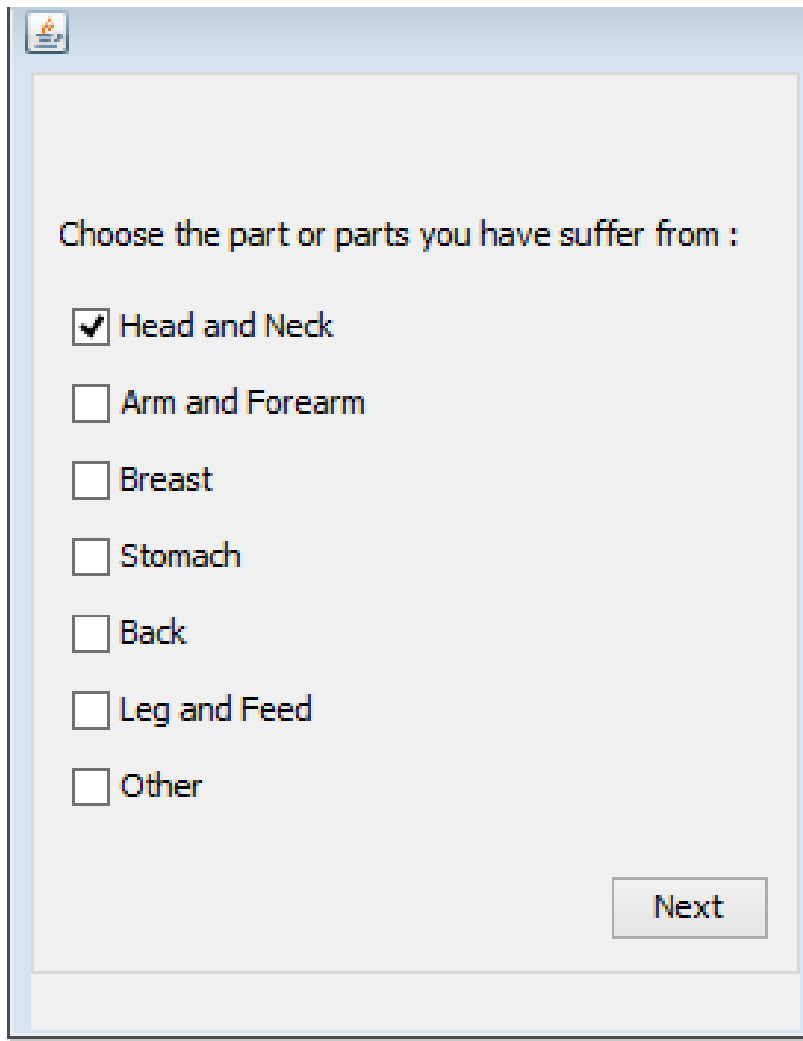
*Figure 7: Patient Mode home page*

Patient mode home page includes;

- A tabbed pane on top to make selections easier.

- In tabbed pane there are four tabs (test, appointments, check up info ,and user info).
  - Test tab include illness search, elders only etc.
  - Appointments tab helps patients to see their appointments and make appointments if they want.
  - Check up info provides information about patient's previous check up dates and next necessary check up dates.
  - User info is to make user info editable and accessible easily.

Example Entrance of an illness search:



Choose the part or parts you have suffer from :

☒ Head and Neck

☐ Arm and Forearm

☐ Breast

☐ Stomach

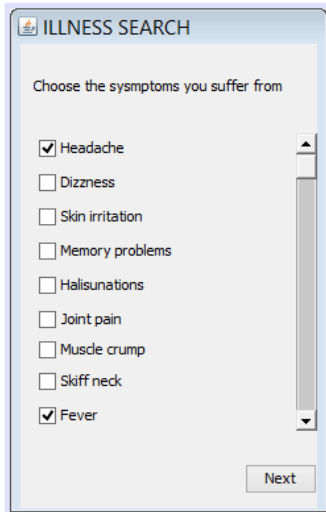
☐ Back

☐ Leg and Feed

☐ Other

Next

*Figure 8: Part of a body which is exposed to a symptom, is selected*



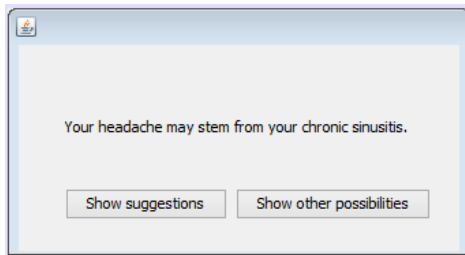
**ILLNESS SEARCH**

Choose the symptoms you suffer from

- ☒ Headache
- ☐ Dizziness
- ☐ Skin irritation
- ☐ Memory problems
- ☐ Halisunations
- ☐ Joint pain
- ☐ Muscle crump
- ☐ Skiff neck
- ☒ Fever

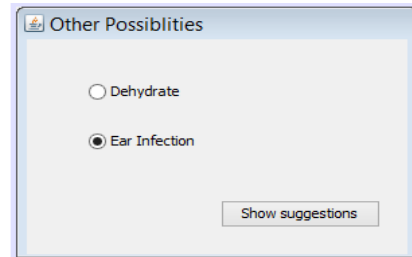
Next

Figure 9: Symptom selection with check boxes



Your headache may stem from your chronic sinusitis.

Show suggestions    Show other possibilities



**Other Possibilities**

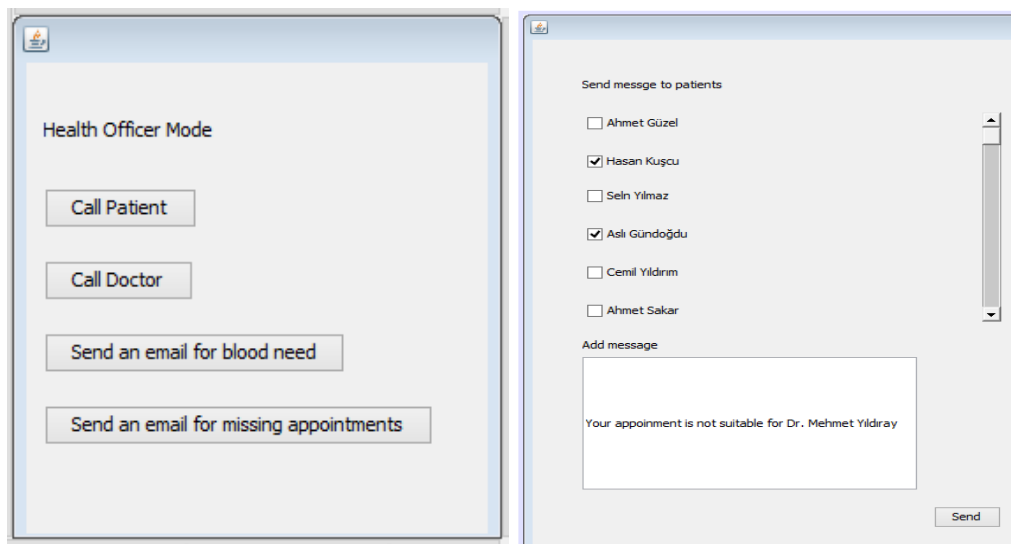
- ☐ Dehydrate
- ☒ Ear Infection

Show suggestions

Figure 10: Resulting illness and suggestions display

While showing results, users are given two options (show suggestions and show other possibilities). In show other possibilities section, user can select other possible illnesses and see suggestions for these illnesses.

### Health Officer Mode:



**Health Officer Mode**

Call Patient

Call Doctor

Send an email for blood need

Send an email for missing appointments

Send message to patients

- ☐ Ahmet Güzel
- ☒ Hasan Kuşcu
- ☐ Selin Yılmaz
- ☒ Aslı Gündoğdu
- ☐ Cemil Yıldırım
- ☐ Ahmet Sakar

Add message

Your appointment is not suitable for Dr. Mehmet Yildray

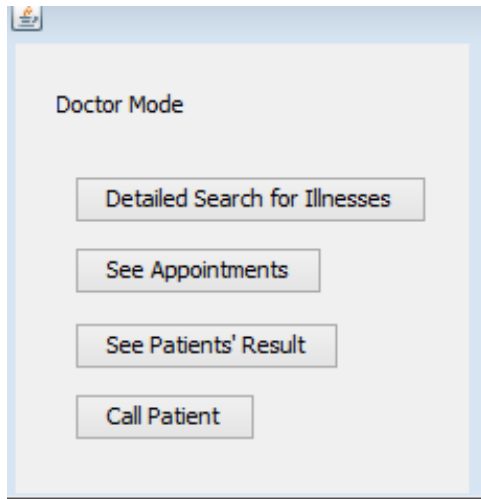
Send

Figure 11: Health officer selections display.

Health officer mode allows officer to contact with other users. For instance, pressing “call patient” shows a list of patients to the officer, and with check boxed list they can contact with patients easily.

#### Doctor Mode:

In doctor mode, doctors are able to search illnesses’ details, see his/her appointments, see patients’ illness search results and contact with patients easily by clicking the proper buttons.



*Figure 12: Doctor selections.*

### **3. Summary & Conclusions**

This report presents a user interface of our program Dr.Me which ensures the prediagnosis and provides advices about treatments. Buttons and active elements are used to enhance the GUI environment in Dr.Me. To conclude, Dr.Me helps its users to reach the medical information in regular and urgent cases, arrange appointments, alerts for checkups and medical examinations, and provide tests for common diseases for prediagnosis.

(NOTE: The sources and explanations do not refer any reference. (Original Text)).