VU Advanced Software Engineering

HOW TO

Workgroup 0102

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To start the program, there are two options:

Option 1 (Runnable JAR in the "implementation" folder):

The executable JAR file can be downloaded from the git repository and can then be saved locally. By the means of a double click on the executable JAR file or running the JAR with the help of the command line (*java -jar telemed.jar*), the application can be run. The WindowBuilder Application starts and the Login Window is opened. From this point of time onwards, the various use cases, which were depicted in the use case diagram, can be accessed, depending on the type of user you choose to register and to log in.

Option 2 (download of git repository hierarchy and running the application in the Eclipse IDE):

The repository can be pulled from git and imported into Eclipse IDE as an EMF Modeling Project. The prerequisite to import the EMF Project is that the Eclipse Modeling Framework is already installed in the Eclipse you use.

At the beginning, the following libaries should be added:

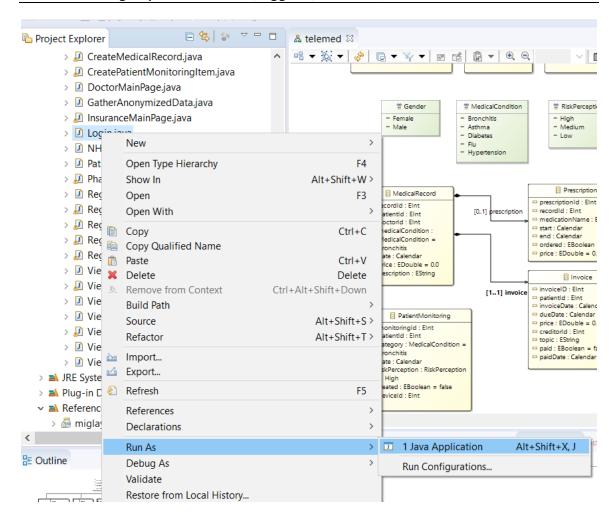
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- commons-collections4-4.1.jar
- commons-csv-1.5.jar
- jdatepicker-1.3.4.jar
- miglayout-src.zip
- miglayout15-swing.jar
- ooxml-schemas-1.3.jar
- plugin.properties
- 🔊 plugin.xml
- poi-3.17.jar
- poi-ooxml-3.17.jar
- userlist.ser
- xmlbeans-2.3.0.jar

The first one is necessary for the GUI layout, and the second one is necessary for the date picker format in the GUI form where dates need to be entered by the user.

WindowBuilder / SwingDesigner needs to be installed, so that the GUI can be run.

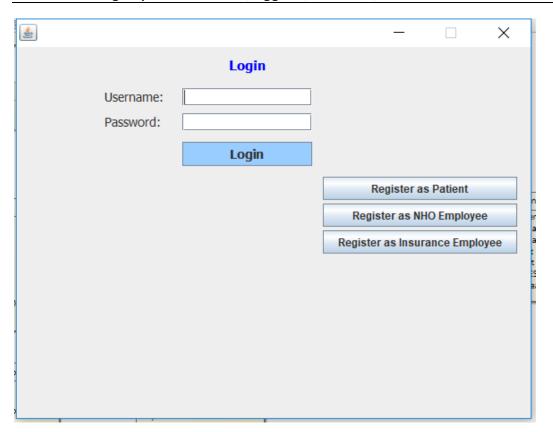
The GUI window "Login" is the first window, which is started when running the application. Therefore, this window should be used to run the project as a Java Application, as it is showed below:



Using the GUI:

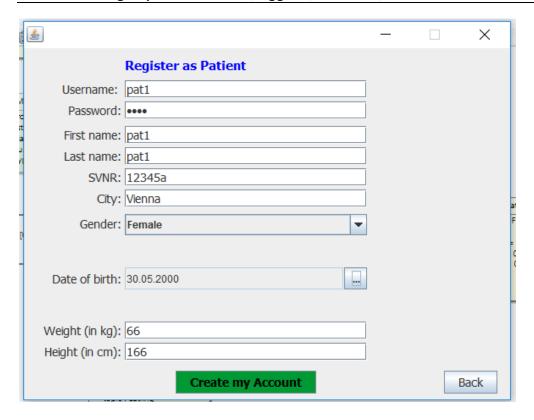
Login:

If you run the Login application window, the login opens and you are requested to either register as a Patient, NHO Employee or Insurance Employee and then login or to directly login with existing user data (see screenshot below). The Patient, the NHO Employee, the Insurance Employee and the Doctor are all User types, but have different use cases available in their corresponding main page menu.



Register as Patient:

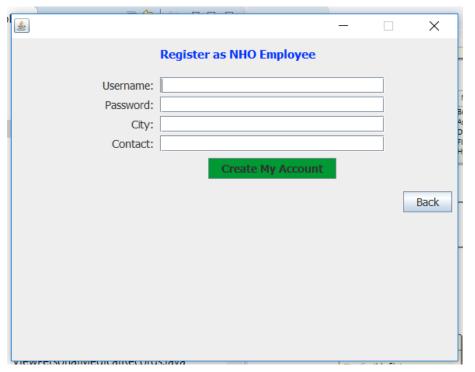
To create a Patient account, you need to enter username, password, first name, last name, svnr (= social insurance number), city, gender, date of birth, weight and height. Then click the button "Create My Account" and the registration will be completed and you will see a pop-up notification message. You will be forwarded to the login page automatically.



<u>\$</u>			_		×
	Register a	s Patient			
Username:	pat1				
Password:	••••				
First name:	pat1				
Last name:	pat1				
SVNR:	12345a	Create Patient Information	×		
City:	Vienna				
Gender:	Female	You are registered.			
		ОК			
Date of birth:	30.05.2000				
Weight (in kg):	66				
Height (in cm):	166				
		Create my Account		В	ack

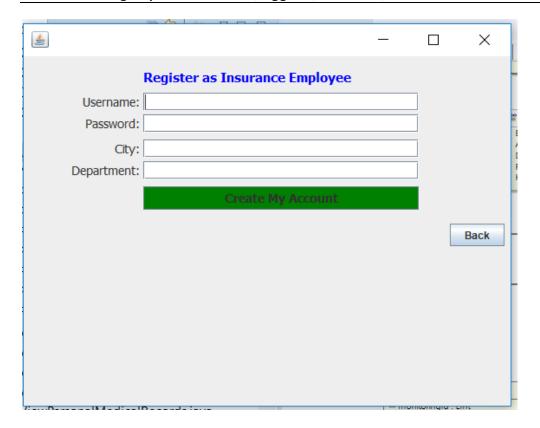
Register as NHO Employee:

To register as an NHO Employee, you need to enter a username, password, city and contact. Then click the button "Create My Account" and you will receive a notification whether the registration was successful.



Register as Insurance Employee:

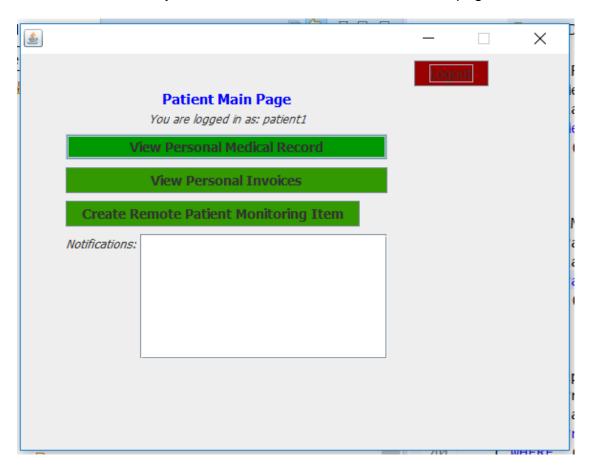
To register as an Insurance Employee, you need to enter a username, password, city and department information. Then click the button "Create My Account" and you will receive a notification whether the registration was successful.



Patient Main Page:

If you are logged in as a Patient, the username with which you logged in is displayed in the upper area. You can now logout at any time upon click on the "Logout" button. As a Patient user, you can view your personal medical records

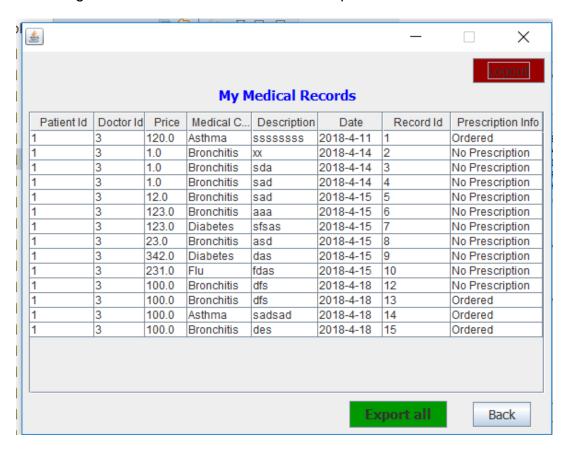
list and your personal invoices. If you feel you want to remotely enter medical information/requests to be reviewed by a doctor, you can create a remote patient monitoring item to communicate your medical condition. If important changes of information regarding your telemedicine system account have taken place, you will be notified directly in the lower section of the Patient main page.



Patient Main Page > View Personal Medical Records:

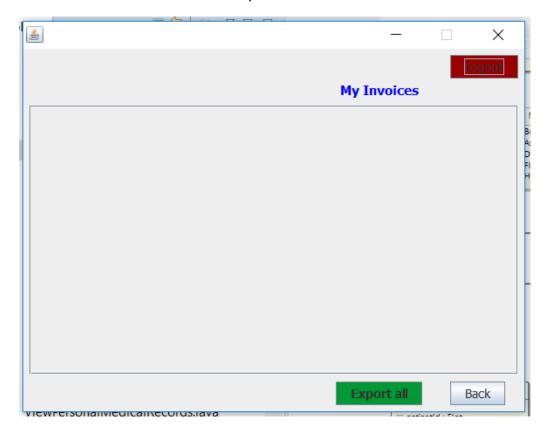
If you are logged in as a Patient and you click on "View Personal Medical Records", a list of all your personal medical records with the corresponding

details will be displayed. Once you are done with reviewing the information you can navigate back to the Patient main menu upon click of the button "Back".



Patient Main Page > View Personal Invoices:

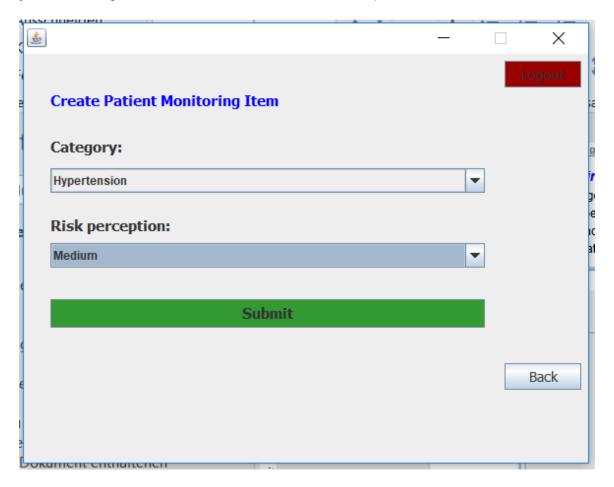
If you are logged in as a Patient and you click on "View Personal Invoices", a list of all your personal medical records with the corresponding details will be displayed. Once you are done with reviewing the information you can navigate back to the Patient main menu upon click of the button "Back".



Patient Main Page > Create Patient Monitoring item:

If you are logged in as a Patient and you click on "Create Patient Monitoring item". You need to select a Category and Risk Perception level to the doctors.

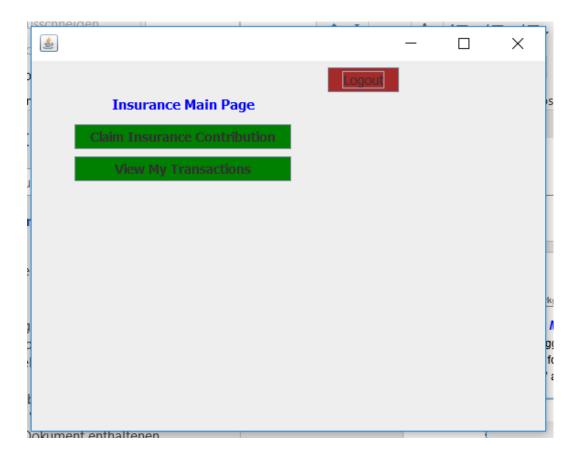
Then, click on "Submit", to transmit the information. Once you are done with this, you can navigate back to the Patient main menu upon click of the button "Back".



Insurance Main Page:

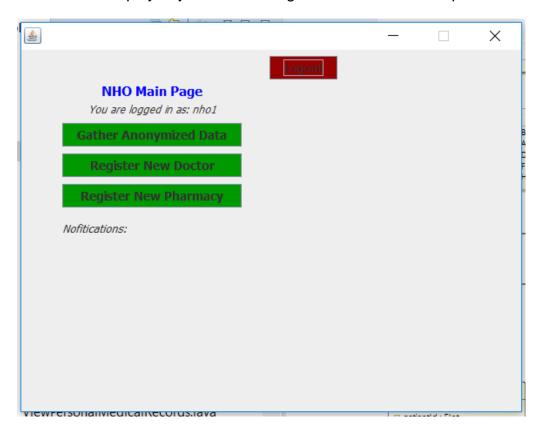
If you are logged in as an Insurance Employee, you can demand the insurance contribution form all patients. To do this, you can click on "Claim Insurance

Contribution" and you will send an Invoice to all patients to be paid. You can also select "View My Transactions" to see, which transactions have involved your account.



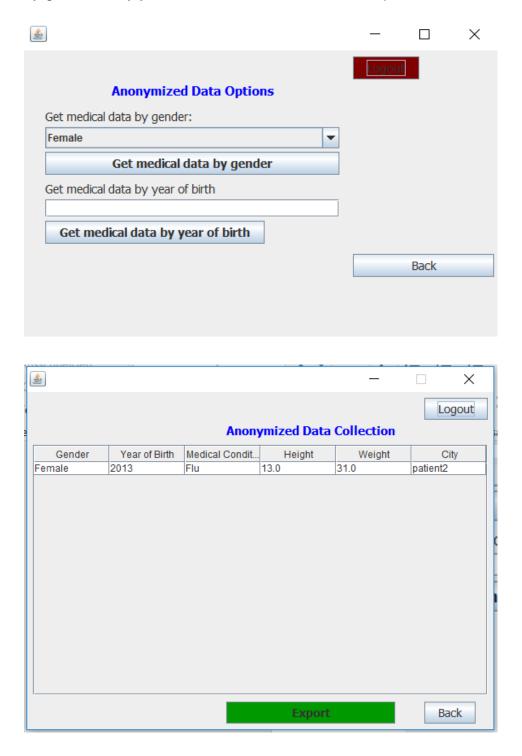
NHO Main Page:

If you are logged in as an NHO Employee, you can gather anonymized medical data either by gender or by year of birth, which can then be exported on demand. As an NHO Employee you can also register new doctors and pharmacies.



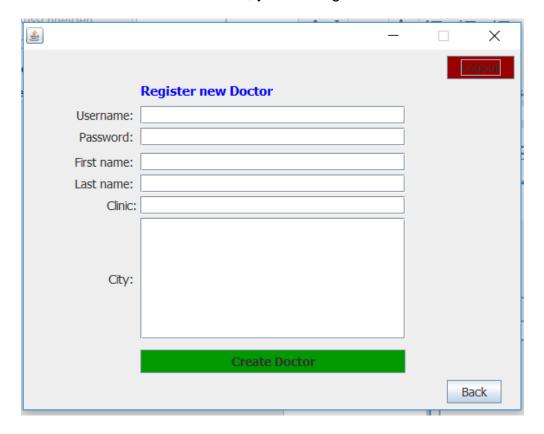
NHO Main Page > Gather Anonymized Data:

In this section of the NHO page, you can gather anonymized medical data either by gender or by year of birth, which can then be exported on demand.



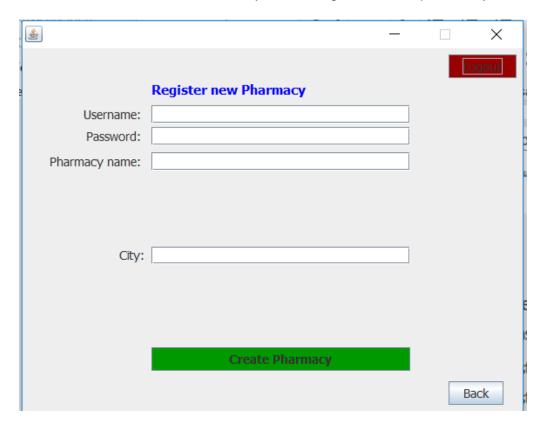
NHO Main Page > Register New Doctor:

In this section of the NHO menu, you can register a new doctor.



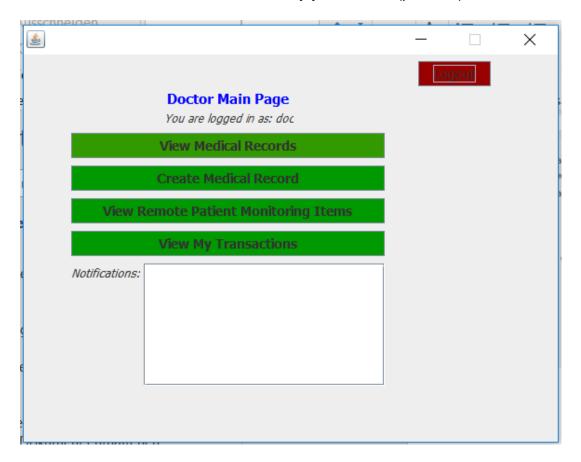
NHO Main Page > Register New Pharmacy:

In this section of the NHO menu, you can register a new pharmacy.



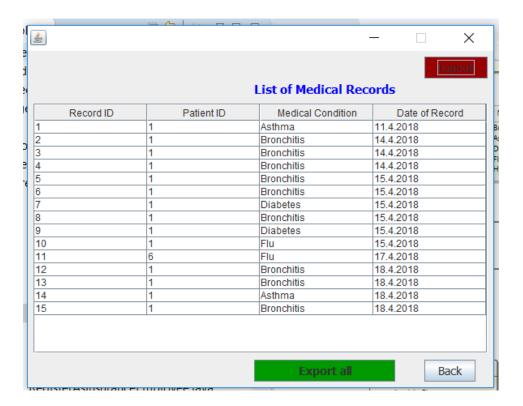
Doctor Main Page:

As a Doctor, you can view Medical Records, which are associated with your doctor ID, and you can create new Medical Records if you perform a Patient examination/treatment. You can also edit existing Medical Records to which you have acces. You also have access to the list of remote patient monitoring items that were entered either by the Patients themselves or by devices linked to a particular patient ID from remote. As a reaction to a so far untreated remote patient monitoring item, you can create a Medical Record and you will gain access to the Patient data. You can also view your Transaction Account to see the Invoices, which have been settled by your clients (patients).



Doctor Main Page > View Medical Records:

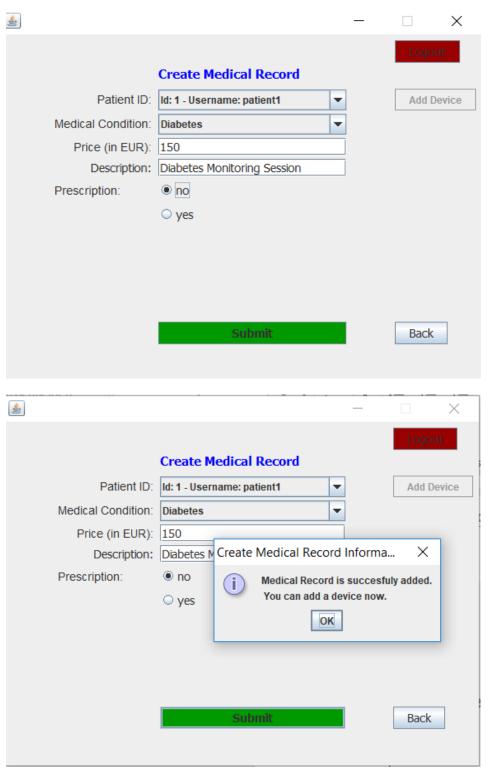
By clicking on "View Medical Records", you can display the list of medical records of your patients, and/or export/edit them.





Doctor Main Page > Create Medical Record:

As a Doctor, you can create new Medical Records, if you perform a Patient examination.



Doctor Main Page > View Remote Patient Monitoring Items:

You can review the list of Remote Patient Monitoring items and if you decide to treat one of the, you can select the row, and click on "Create Medical Record for selected item" to create a Medical Record for that particular item.

