

USER MANUAL

Hospital Management for rare diseases.

USER MANUAL

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1.0 GENERAL INFORMATION.

1.1 System Overview.

The Hospital Management for rare diseases app is an application that allows you to assign a hospital for a patient who needs a treatment not accessible in most hospitals. The information available includes a list of hospitals and their respective machines and doctors, as well as information on the sorting medics, all already inside the database.

The goal is to provide people with uncommon diseases a fast and secure way to find a hospital that can provide the treatment that they need.

1.2 Authorized Use Permission.

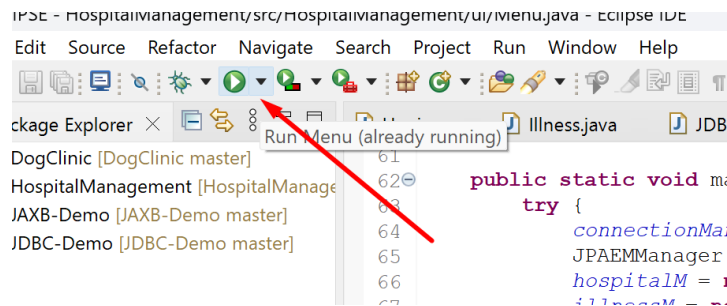
The app is available only to sorting medics. You need a username and password to view or modify the data. That way only sorting medics can login to add or update the necessary information.

2.0 SYSTEM FEATURES.

2.1 Login.

By logging in you will be allowed to access the main menu where a list of options will show up to do various tasks.

- 1) Click on Run Menu.



The login screen displays as shown below.



- 2) Type the **Username** and **Password**. (This is an example, there's 3 options by default)
Options: johnny / hobbit73; ade / spiderman32; agnessy / theLordofRings47.

```
Type the user name:
johnny
Type the password:
hobbit73
```

2.1.1 Successful Login.

The main menu is displayed.

```
|Choose an option, please:  
-1. Register a new Patient  
-2. Select a patient data  
-3. Select doctor data  
-4. Show hospitals  
-5. Create XMLs  
-0. Exit
```

2.1.2 Invalid Username / Password.

If user enters invalid username or password, then the following error message will display:

“Incorrect username / password.”

```
      Type the user name:
```

```
      Type the password:
```

```
|      INCORRECT USERNAME / PASSWORD
```

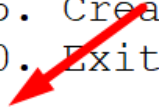
After that it will ask you again for a username and password.

2.2 Register a new patient.

2.2.1 Select option “Register a new patient.”

To select the first option, type a 1.

```
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
1
```



2.2.2 Insert all the information needed.

Fill all the fields with the data of the new patient.

```
Type the patient data
Name:
a
Surname:
a
Date of birth (yyyy-MM-dd):
2002-03-14
Photo:
Type the file name as it appears in folder /photos, including extension: Ana.jpg
Please, choose the ID of the illness the patient has:

id: 1, condition: Acoustic Neuroma

id: 2, condition: IgA Nephropahy

id: 3, condition: Wolfram Syndrome

id: 4, condition: Multiple Myeloma

id: 5, condition: Sanfilippo Syndrome
1
Please, enter the severity of the illness:
severe
```

2.2.3 No illness found.

If you put a number of an id that doesn't exit, then an error will pop up “No illness found with that id”.

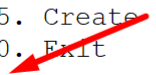
NO ILLNESS FOUND WITH THAT ID

2.3 Select a patient data.

2.3.1 Select option “Select patient data.”

To select the option, type a 2.

```
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
2
```



2.3.2 Input the name and id of the patient.

```
Type the name:
a

id: 1
name: a
surname: a

Please choose a patient, type the Id:
1
```

2.3.3 Successful selection.

A menu of the patient will appear to show all the available choices you can do with a patient.

```
What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Create patient XML
0. Back to principal menu
```

2.3.4 Invalid name.

If the name isn't right a warning will appear: “There is no one with that name.”

```
Type the name:
b
There is no one with that name.
```

2.3.5 Invalid ID.

If the ID isn't right a warning will appear: “No patient with that id.”


```
Type the name:
Ana

id: 201
name: Ana
surname: Ruiz

Please choose a patient, type the Id:
12
NO PATIENT WITH THAT ID
```

2.4 Select a doctor data.

2.4.1 Select option “Select doctor data.”

To select the option, type a 3.

```
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
3
```

2.4.2 Input the name and surname of the doctor.

To select a doctor, it is necessary to input their name and surname, after that a list of doctors who have the same name will show up, select the id of the one you want to select.

```
Type the name:
Adele
Type the surname:
Brown

id: 2
name: Adele
surname: Brown

Please choose a doctor, type the Id:
2
```

2.4.3 Successful selection.

A menu of the doctor will appear to show all the available choices you can do with the specific doctor that has been chosen.

```
What do you want to do with the doctor?:
1. Update data
2. Show data
3. Delete doctor
4. Create doctor XML
0. Back to principal menu
```

2.4.4 Invalid name or surname.

If the name or surname isn't right a warning will appear: **"There is no one with that name"**.

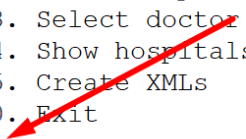
```
Type the name:
d
Type the surname:
d
There is no one with that name.
```

2.5 Show hospitals.

2.5.1 Select option "Show hospitals."

To select the option, type a 4.

```
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
4
```



After that a list of hospitals available will show up.

```
id: 1
name: Hospital Universitario Fundacion Jimenez Diaz
location: Av. Reyes Catolicos 2, Madrid

id: 2
name: Centro Medico Teknon
location: Calle Vilana 12, Barcelona

id: 3
name: HM Universitario Sanchinarro
location: Calle Ona 10, Madrid

id: 4
name: Hospital Universitari i Politecnic la Fe
location: Av. de Fernando Abril Martorell 106, Valencia


id: 5
name: Hospital Infantil Universitario Nino Jesus
location: Av. Menendez Pelayo 65, Madrid
```

2.6 Create XML's.

2.6.1 Select option "Create XML's."

To select the option, type a 5.

```
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
5
```



2.6.2 What to turn into XML.

Select what do you want to turn into an XML.

```
What do you want to turn into an XML? :
1. Hospital
2. Illness
3. Machine
0. Back to principal menu
1
```

Note: In this case we will be creating a Hospital XML.

After that a list of hospitals will show up, select the one you want to turn into an XML by choosing their id.

```
Which hospital do you want to create an XML out of?

[
  id: 1|
  name: Hospital Universitario Fundacion Jimenez Diaz
  location: Av. Reyes Catolicos 2, Madrid
,
  id: 2
  name: Centro Medico Teknon
  location: Calle Vilana 12, Barcelona
,
  id: 3
  name: HM Universitario Sanchinarro
  location: Calle Ona 10, Madrid
,
  id: 4
  name: Hospital Universitari i Politecnic la Fe
  location: Av. de Fernando Abril Martorell 106, Valencia
,
  id: 5
  name: Hospital Infantil Universitario Nino Jesus
  location: Av. Menendez Pelayo 65, Madrid
]

Choose an id:
1
```

This same process will happen when choosing to create an XML of Machine and Illness. After choosing the id, the XML will be saved in the xml folder of the project.

2.6.3 Create an HTML.

An option will show up after having selected the hospital in this case. If you also want to create an HTML after creating the XML type “Y” for yes, if not type a “N” for no.

```
Do you want to create and HTML? Y/N
Y
```

When choosing “Y”, the HTML link will be created in the xml folder of the project. To open the HTML, you’ll only have to click on it and the page will be opened in your browser.


2.7 Update data of the doctor.

To update the data of the doctor you must have selected a doctor first.

2.7.1 Select option “Update data.”

To select, type option 1.

```
What do you want to do with the doctor?:
1. Update data
2. Show data
3. Delete doctor
4. Create doctor XML
0. Back to principal menu
1
```



2.7.2 Input new data.

When asked for that field you can either leave it as it was by pressing enter or input the new information.

```
Type the new data, or press enter to keep actual data
Name (Adele):

Surname (Brown):

Salary (55000):
```

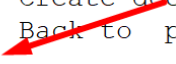
2.8 Show data of the doctor.

To update the data of the doctor you must have selected a doctor first.

2.8.1 Select option “Show data.”

To select, type option 2.

```
What do you want to do with the doctor?:  
1. Update data  
2. Show data  
3. Delete doctor  
4. Create doctor XML  
0. Back to principal menu  
2
```



2.8.2 Display information.

The information will be displayed automatically after selecting the option 2.

```
DOCTOR INFO.  
id: 2  
name: Adele  
surname: Brown  
dob: 1970-01-01  
speciality: Nephrologist  
salary: 10000  
illness that Adele treats: [  
id: 2, condition: IgA Nephropahy]  
  
HOSPITAL INFO.  
id: 2  
name: Centro Medico Teknon  
location: Calle Vilana 12, Barcelona
```

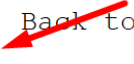
2.9 Delete doctor.

To delete the data of the doctor you must have selected a doctor first.

2.9.1 Select option “Delete doctor.”

To select, type option 3.

```
What do you want to do with the doctor?:  
1. Update data  
2. Show data  
3. Delete doctor  
4. Create doctor XML  
0. Back to principal menu  
3
```



2.9.2 Successful delete.

Once the doctor selected is deleted a message will be displayed and you will be back in the main menu.

```
The doctor has been removed. :(
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-0. Exit
```

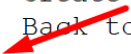
2.10 Create doctor XML.

To create a doctor XML, you must have selected a doctor first.

2.10.1 Select option “Create doctor XML.”

To select, type option 3.

```
What do you want to do with the doctor?:
1. Update data
2. Show data
3. Delete doctor
4. Create doctor XML
0. Back to principal menu
3
```




2.10.2 Create HTML.

Once the XML is created it will ask you if you want to create an HTML. If you want to then input a “Y” for yes and a “N” for no.

When “Y” is chosen, the HTML link will appear in the xml folder of the program.

```
Do you want to create and HTML? Y/N
Y
```




2.11 Update data of the patient.

To update the data of the patient you must have selected a patient first.

2.11.1 Select option “Update data.”

To select, type option 1.

```
What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Create patient XML
0. Back to principal menu
1
```



2.11.2 Input new data.

When asked for that field you can either leave it as it is by pressing enter or input the new information.

```
Type the new data, or press enter to keep actual data
Name (a):

Surname (a):

Type the file name as it appears in folder /photos, including extension:
```

2.11.3 Update illness severity.

After updating the name / surname / photo you can update the illness severity. If you want to then input a “Y” for yes and a “N” for no.

a) YES

A list of illnesses will show up, you must select the illness you want to update.

```
This patient has the following illnesses:

illness:
id: 3, condition: Wolfram Syndrome, severity: severe

illness:
id: 1, condition: Acoustic Neuroma, severity: severe
Enter the illness that need to be updated:
1
```

After selecting the illness input the new severity.

```
Enter the new severity:
cured
```

b) NO

```
Do you want to update an illness severity? Y/N
N
```

2.12 Show data of the patient.

To display the data of the patient you must have selected a patient first.

2.12.1 Select option “Show data.”

To select, type option 2.

```

1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Create patient XML
0. Back to principal menu
2

```

2.12.2 Display information.

The information will be displayed automatically after selecting the option 2.

```

id: 1
name: a
surname: b
dob: 2002-03-14
HOSPITAL INFO.
id: 1
name: Hospital Universitario Fundacion Jimenez Diaz
location: Av. Reyes Catolicos 2, Madrid
TREATED FOR: []

```

2.13 Search hospital.

To search for a hospital for the patient you must have selected a patient first.

2.13.1 Select option “Search hospital.”

To select, type option 3.

```

What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Delete illness
7. Create patient XML
0. Back to principal menu
3

```

2.13.2 Select illness to treat.

A list with all the illnesses of the patient will show up. Input the id of the illness you want to treat.

```

illness:
id: 3, condition: Wolfram Syndrome, severity: severe
What illness do you want to treat?
Please enter illness id:
3

```


2.13.3 Successful assignation.

If there is a hospital that has a machine and a doctor that can treat that illness and is available, then it will be assigned to the patient.

```
You have been assigned to :
id: 3
name: HM Universitario Sanchinarro
location: Calle Ona 10, Madrid
```

2.14 Assign illness.

To assign an illness you must have selected a patient first.

2.14.1 Select option “Assign illness.”

To select, type option 4.

```
What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Delete illness
7. Create patient XML
0. Back to principal menu
4
```

2.14.2 Select illness and severity.

A list of illnesses will show up, you must select the illness you want to assign to the patient and after that enter the severity of the illness.

```
Please, choose the ID of the illness the patient has:
id: 1, condition: Acoustic Neuroma
id: 2, condition: IgA Nephropahy
id: 3, condition: Wolfram Syndrome
id: 4, condition: Multiple Myeloma
id: 5, condition: Sanfilippo Syndrome
1
Please, enter the severity of the illness:
severe
```


2.15 Update state of an illness.

To update the state of an illness you must have selected a patient first.

2.15.1 Select option “Update state of an illness”.

To select, type option 5.

```
What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Delete illness
7. Create patient XML
0. Back to principal menu
5
```



2.15.2 Select illness.

A list of illnesses will show up, you must select the illness you want to update.

```
This patient has the following illnesses:

illness:
id: 3, condition: Wolfram Syndrome, severity: severe

illness:
id: 1, condition: Acoustic Neuroma, severity: severe
Enter the illness that need to be updated:
1
```

2.15.3 Input the new severity.

After selecting the illness, input the new severity.

```
Enter the new severity:
cured
```

2.15.4 Error no illness available.

If a patient doesn't have an illness, then "The patient has no illness" will show up.

```
This patient has the following illnesses:
THE PATIENT HAS NO ILLNESSES
```


2.16 Create patient XML.

To create a patient XML, you must have selected a patient first.

2.16.1 Select option "Create patient XML."

To select, type option 6.

```
What do you want to do with the patient?:
1. Update data
2. Show data
3. Search hospital
4. Assign illness
5. Update state of an illness
6. Create patient XML
0. Back to principal menu
6
```




2.16.2 Create HTML.

Once the XML is created it will ask you if you want to create an HTML. If you want to then input a “Y” for yes and a “N” for no.

When choosing “Y”, the HTML link will be saved in the XML folder.

```
Do you want to create and HTML? Y/N
Y
```




2.17 Delete illness.

To be able to select this option, the user must have logged in and be in the main menu.

2.17.1 Select option “Delete illness”.

Select option 6 on the main menu.

```
-----
Choose an option, please:
-1. Register a new Patient
-2. Select a patient data
-3. Select doctor data
-4. Show hospitals
-5. Create XMLs
-6. Delete illness
-0. Exit
```



2.17.2 Choose the illness.

```
id: 1, condition: Acoustic Neuroma
id: 3, condition: Wolfram Syndrome
id: 4, condition: Multiple Myeloma
id: 5, condition: Sanfilippo Syndrome
What illness do you want to remove?
Please enter illness id:
3
The illness has been removed.
```