USER’S MANUAL

First of all, when you enter the database, the user can choose between:

1 **Login**
The user should enter their email and password and press the login button.

2 **Register**
If the user chooses this option the program will ask for their email, password and role. The password must have at least one uppercase, one lowercase and one number to be valid.
The role can be chosen between the 5 types displayed on the list that appears when clicked, each role will ask for a series of information necessary for a functional program:

- **Administrator**: introduce your name and phone number.
- **Doctor**: introduce your name, phone number and specialisation.
- **Patient**: introduce your name, phone number, date of birth, blood type, name of disease and whether you are cured or not.
- **Sponsor**: introduce your name, phone number and card number.
- **Engineer**: introduce your name, and phone number.

Once the information is filled in, press ‘Register.’

3 **Change Password**
The user may enter a new password that must fulfil the requirements: it has to have at least one uppercase, one lowercase and one number to be valid.

Once you have logged in or register depending on the role you have on the application, one of these menus will appear:

ADMINISTRATOR
In the administrator’s menu the user can choose between one of these options:

1. **Add a new clinical trial**

   If the user chooses this option the program will ask for the requirements of the new clinical trial and the amount of money needed to be invested for its functionality.

2. **Add a new administrator**

   If the user chooses this option, the program asks for the personal data of the administrator: name, phone and email. Once the user fills all of the boxes with its information, it is necessary to press the button create to store the new administrator in the program.

3. **Show all the patients in the database**

   If the user clicks on this option a table with all the patients on the database and their information is displayed.

4. **Show all the administrators in the database**

   If the user clicks on this option a table with all the administrators on the database and their information is displayed.

5. **Show the amount invested**

   If the user clicks on this option a table with all the trials on the database and the amount invested on each one of them is displayed.

6. **Update the acceptance state of a patient**

   If the user chooses this option the program will ask for the ID of the patient they wish to update their acceptance state and the trial application ID. After, press 'Update' to change the patient's acceptance state.

7. **Assign a patient to a clinical trial**

   If the user chooses this option, the program will ask for the patient's ID and the trial's ID. Once the user fills this information, it is necessary to press the button 'Assign' in order to assign the doctor to the patient.

8. **Delete a patient from a clinical trial**

   If the user desires to delete a patient they have to press this option, write the patient ID on the box and press the 'Delete' button. The patient will be deleted from the clinical trial they are part of.

9. **Show all patients of a clinical trial**

   When this option is pressed the user can write the ID of a specific clinical trial and all the patients will be displayed with their information: id, name, phone, date of birth, cured state, blood type and name of disease.

10. **Show success rates of the clinical trials**

    When this option is picked an histogram is displayed that shows every trial and the percentage of cured patients out of all the patients in the trial. It is useful for the administrator to see how the trials are going.

11. Print the administrator to an XML file

If the user chooses this option, the administrator's information will be stored in a xml file.

12. Load the administrator from an XML file

If the user chooses this option, the doctor's information will be taken from a xml file to the program.

DOCTOR

In the doctor´s menu the user can choose between one of these options:

1. **Add a new doctor**

   If the user chooses this option, the program asks for the personal data of the doctor: name, phone, email and specialisation. Once the user fills all of the boxes with its information, it is necessary to press the button 'Create' to store the new doctor in the program.

2. **Show all the doctors in the DB**

   If the user chooses this option, a table with all the doctors will appear. The table with the doctors includes their ID, name, email, phone and specialisation.

3. **Assign doctor to patient**

   If the user chooses this option, the program will ask for the patient's ID and the doctor's ID. Once the user fills this information, it is necessary to press the button 'Assign' in order to assign the doctor to the patient.

4. **Update speciality of a doctor**

   If the user chooses this option, the program will ask for the doctor's ID as well as the new specialisation of the doctor. Once the user fills this information, it is necessary to press the 'Update' button in order to store the new speciality of the doctor in the program.

5. **Create a report**

   If the user chooses this option, the program will ask for the medical history, treatment and the doctor's ID. Once the user fills this information, it is necessary to press the button 'Create' in order to store the new report in the program.

6. **Assign report to patient**

   If the user chooses this option, the program will ask for the report ID, doctor ID and patient ID. Once the user fills this information, it is necessary to press the button 'Assign' in order to store the new report in the program.

7. **Show all reports of a patient**

   If the user chooses this option, a table with all of the reports will appear. The table with the reports includes their ID, name, email, phone, date of birth, cured, blood type and name of the disease.

8. **Update cured state patient**

   If the user chooses this option, the program will ask for the patient's ID and there are two buttons to update the cured state of the patient. Once the user fills this information, it is necessary to press the button 'Update' in order to store the new cured state of the patient.

9. **Choose investigational product**

   If the user chooses this option, the program will ask for the doctor's ID, investigational product ID and the trial ID. Once the user fills this information, it is necessary to press the 'Choose' button.

10. **Print doctor to an XML file**

    If the user chooses this option, the doctor's information will be stored in a xml file.

11. **Load doctor from an XML file**

    If the user chooses this option, the doctor's information will be taken from a xml file to the program.

PATIENT

In the patient's menu the user can choose between one of these options:

1. **Apply to a clinical trial**

   If the user chooses this option, the program will ask for the administrator's ID, and the clinical trial ID. Once the user fills this information, it is necessary to press the 'Apply' button.

2. **Get the state of request**

   If the user chooses this option, a table with its trial's applications will appear. The table includes the date of application, date of resolution, if the request is approved or not, and its ID.

3. **Show all my reports**

   If the user chooses this option, a table with all of the reports from the patient will appear. The table with the reports includes their medical history, treatment and the report's ID.

4. **Show all clinical trials**

   If the user chooses this option, a table with all the clinical trials and their information will appear.

5. **Print patient to an XML file**

   If the user chooses this option, the patient's information will be stored in a xml file.

6. **Load patient from an XML file**

   If the user chooses this option, the patient's information will be taken from a xml file to the program.

SPONSOR

In the sponsor's menu the user can choose between one of these options:

1. **Add a new sponsor**

   If the user chooses this option, the program asks for the personal data of the sponsor: name, phone, email and card number. Once the user fills all of the boxes with its information, it is necessary to press the button 'Create' to store the new sponsor in the program.

2. **Show all the clinical trials**

   When this option is pressed by the user all the clinical trials and their information: id, requirements, amount of money invested and administrator's id in charge of said trial is displayed.

3. Make an investment

If the user chooses this option they will be able to enter a trial id, their own sponsor id and an amount to invest. If they press the 'Create' button they will be able to create a new investment.

4. Update an investment

If the user chooses this option they will be able to enter a trial id, their own sponsor id and an amount to invest. If they press the 'Update' button they will be able to update their preexisting investment.

5. Show all reports of a patient

If the user chooses this option, a table with all of the reports will appear. The table with the reports includes their medical history, treatment and the report's ID.

6. Print sponsor to an XML file

If the user chooses this option, the sponsor's information will be stored in a xml file.

7. Load sponsor from an XML file

If the user chooses this option, the sponsor's information will be taken from a xml file to the program.

ENGINEER

In the engineer's menu the user can choose between one of these options:

1. Add a new engineer

If the user chooses this option, the program asks for the personal data of the engineer: name, phone and email. Once the user fills all of the boxes with its information, it is necessary to press the button 'Create' to store the new engineer in the program.

2. Show all engineers in database

If the user chooses this option, a table with all the engineers will appear. The table includes the engineer's ID, name, email and phone.

3. **Add a new investigational product**

   If the user chooses this option, the program asks for the data of the investigational product: description, type and money. Once the user fills all of the boxes with the information, it is necessary to press the button 'Create' to store the new investigational product in the program.

4. **Show all investigational products of the clinical trial**

   If the user chooses this option, a table with all the investigational products will appear. The table includes the investigational product ID, description, type and amount.

5. **Print engineer to an XML file**

   If the user chooses this option, the engineer's information will be stored in a xml file.

6. **Load engineer from an XML file**

   If the user chooses this option, the engineer's information will be taken from a xml file to the program.