



DOCTOR'S FRONTEND 2.0

DESIGN AND FEATURES

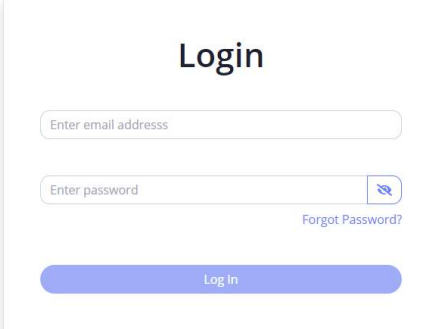
User manual
For internal use only

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1. LOGIN

The doctor's new frontend comes with a new and refreshed login screen. **Doctors will need to migrate from the old web application to the new one.** They will need to provide their functional email address which will be used as the username and will be used in case they forget the password (This is a new function, so they can do this on their own). **There is no more visual differentiation between NIFTY and NIPT – Branding is the same on both services.** The only difference is in the product names which are displayed accordingly.



The login form is centered on a white background. It features a title 'Login' at the top. Below the title are two input fields: 'Enter email address' and 'Enter password'. The password field has a small eye icon to its right. Below the password field is a link that says 'Forgot Password?'. At the bottom of the form is a blue button labeled 'Log In'.

English (English)  Remote Assistance

2. FIRST PAGE OF THE DOCTOR'S FRONTEND

The default view for the first page is the **Treatments view**. All the functionality of the Treatments view is explained in detail in the following section 2.3. Patients view.



Kits

Patients











[Add Patient](#)

[Logout](#)

Patients

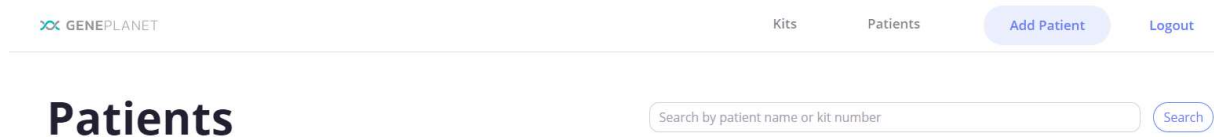
Search by patient name or kit number

[Search](#)

Name	Kit	Doctor	Service	Venipuncture	DSV	Status	Edit	Form	Results
April Test	20B0000014	Đajić Čančarević Branka	NIFTY Basic	22 Apr 2020, 08:01	32	Processing			
NINA OG	19B6820580	Đajić Čančarević Branka	NIFTY Twins	15 Apr 2020, 01:11	39	Resample			
Test App	19B2843242	Đajić Čančarević Branka	NIFTY Standard	8 Apr 2020, 12:56	46	Processing			
Test Novak	19B6820587	Đajić Čančarević Branka	NIFTY Plus	8 Apr 2020, 07:34	46	Delay			
Petra Trobina	19B6820583	Đajić Čančarević Branka	NIFTY Twins	7 Apr 2020, 12:44	47	Failed			
Test Nomnio	20B0000001	Đajić Čančarević Branka	NIFTY Basic	6 Apr 2020, 12:30	48	Processing			

2.1. Upper section

Contains the navigation bar with the buttons and a search window.



2.1.1. Navigation bar

New doctor's frontend has **two different views – Kits and Patients**. You can switch between the two by clicking on the **Kits** or **Patients** in the upper section of the first page. In the upper bar there is also the **Add patient** button. Clicking on this button will open the Add new patient form. You can logout by clicking on the **Logout** button.



2.1.2 Search window

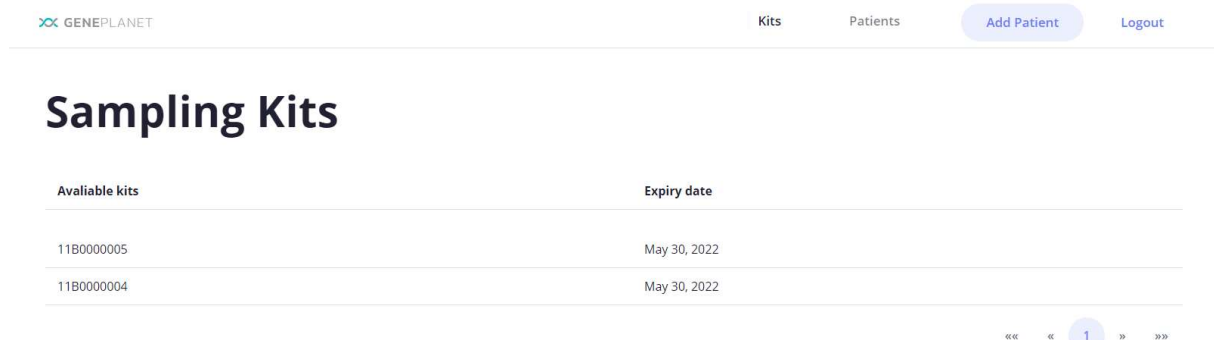
Bellow the navigation bar you will find the **new search window**. The search window allows you to search created treatments by patient name or by kit barcode. This is a very useful feature that significantly shortens the time spent, searching for specific treatments.



2.2. Kits view

In contrast to the previous version, there is less information in this view. Here you can see just the kit information that is relevant to the medical professional.

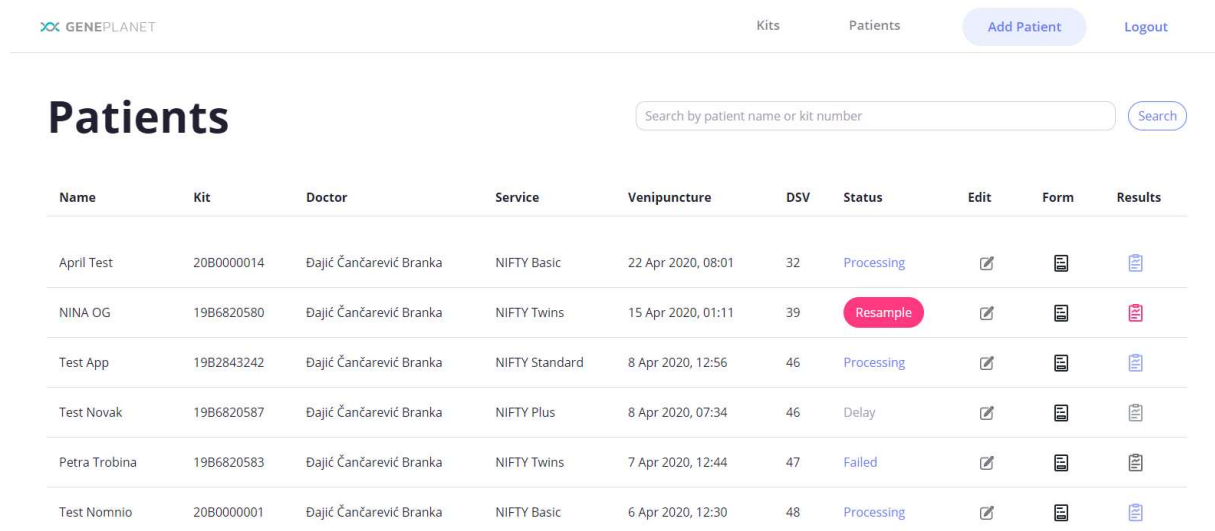
In this view doctors can see all **available kits** they have in stock and their **expiration dates**. This allows for rational kit usage (use the kits with the nearest expiration date first) and therefore less expired kits.



2.3. Patients view

In the patients view you can see all the needed information about the created treatments. The information is displayed in the following columns (from left to right):

- **Name:** Displays the name and surname of the patient
- **Kit:** Displays the corresponding kit barcode
- **Doctor:** Displays the name of the doctor who administered the test
- **Service:** Displays the service that was performed (Basic, Standard, Plus, Twins)
- **Venipuncture:** Contains the timestamp (Day, Month, Year, Hur, Minute) of the blood draw
- **DSV:** Days since venipuncture (Days since blood draw)
- **Status:** Column displays 5 different statuses (Processing, Results ready, Results Aknowledged, *Resample, NoCall – Refund, Delay, Failed):
- **Edit:** **Only available until the end of the day!** Clicking on this let's you edit the test request form
- **Form:** Opens the .pdf of the finished request form
- **Results:** When the results are ready it enables to click on the results button to open the results form in .pdf format.



The screenshot shows the 'Patients' view in the GenePlanet application. At the top, there are navigation links for 'Kits', 'Patients', 'Add Patient', and 'Logout'. Below the navigation is a search bar with the placeholder text 'Search by patient name or kit number' and a 'Search' button. The main content is a table with the following columns: Name, Kit, Doctor, Service, Venipuncture, DSV, Status, Edit, Form, and Results. The table contains six rows of patient data. The 'Status' column for the second row (NINA OG) has a red 'Resample' button instead of the standard status text. Each row has icons for editing, viewing the form, and viewing the results.

Name	Kit	Doctor	Service	Venipuncture	DSV	Status	Edit	Form	Results
April Test	20B0000014	Đajić Čančarević Branka	NIFTY Basic	22 Apr 2020, 08:01	32	Processing			
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* If the treatment status changes to Resample, this generates a clickable button in the status column. Clicking on this button starts a resample procedure which is similar to adding a new patient. The difference is that in the Resample procedure some of the fields are prefilled with data from the last blood draw. More on that in the Resample section.

3. ADDING A NEW PATIENT

To start adding a new patient click in the Add patient button in the navigation bar. This will open a blank form that the doctor has to fill out with the patient and pregnancy data that is needed for a successful genetic analysis. The form is structured in a way that some fields are labeled as required and if they are not filled, the form can not be saved and therefore the treatment can not be created.

3.1. Patient information

Contains the fields to input general patient information. When you input Height (cm) and Weight (kg) it automatically calculates the BMI (it is not visible). It triggers a notification popup if the BMI is over 40.

Patient information

<input type="text" value="Name"/>	<input type="text" value="Last name"/>
<input type="text" value="Document ID"/>	<input type="text" value="Birthday"/>
<input type="text" value="Telephone number"/>	<input type="text" value="Email"/>
<input type="text" value="150"/>	<input type="text" value="110"/>

In case the BMI \geq 40 our NIPT test is not yet validated and therefore this might decrease the test's performance. The sample is still accepted. The patient acknowledges this risk by signing the consent form.

3.2. Current pregnancy

Current pregnancy

Estimated due date
DD.MM.YYYY

Gestation age at draw
Weeks Days

Number of fetuses
1 2

Chorionicity

IVF
Yes No

Own egg **Donor egg**

Vanishing twin syndrome
Yes No

Detected at following gestational age
Weeks Days

Surrogate mother
Yes No

Patient undertakes heparin or heparin analogue therapy (eg. heparin, enoxaparin,...)
Yes No

Did the patient make a 24 hour pause before blood draw?
Yes No

Date of last ultrasound scan
DD.MM.YYYY

Prior screening test
Prior screening test

Fetus 1
T21: 1/ Risk

Fetus 2
T21: 1/ Risk

T18: 1/ Risk

T18: 1/ Risk

T13: 1/ Risk

T13: 1/ Risk

Contains all the information about the current pregnancy. **Fields that are new:**

- **Vanishing twin syndrome:** We can't perform the test if it happened less than 8 weeks before the blood draw. Or the difference between gestation week and week of detection is less than 8 weeks.
- **Surrogate mother**
- **Patient undertakes heparin or heparin analogue therapy:** Heparin based anticoagulants (enoxaparin etc.) mess with the analysis
 - **We accept** samples if the patient made at least a 24h pause from the mentioned medication. If no, the sample is rejected.

Sample not qualified for analysis



The sample in question is not qualified for the analysis since the blood draw was performed less than 24 hours after the last administered heparin or heparin analogue dose. Please discard the sample and repeat the blood draw while making 24 hour pause with the anticoagulant therapy.

Stop adding patient and close the form

3.3. Patient history

This section contains all the information that was in the previous version of the doctor's frontend. With some additional and required information such as: Human serum albumin therapy, cancer history, cellular immunotherapy with exogenous DNA, stem cell therapy, transplant surgery, blood transfusion.

Patient history

Number of pregnancies (Gravida) Number of births (Para)

Previous pregnancies affected by genetic condition

Condition description

Family history of genetic disease

Condition description

Relation to patient

Is the patient or her partner carrier of a genetic condition

Condition description

Does the patient have a history of cancer?

In case the patient recovered from cancer our NIPT test is not yet validated and therefore this might decrease the test's performance. The sample is still accepted. The patient acknowledges this risk by signing the consent form.

Patient received human serum albumin therapy

Has it been more than 4 weeks since the last dose?

Patient received cellular immunotherapy with exogenous DNA

Has it been more than 4 weeks since the last dose?

Patient received stem cell therapy

Patient had transplant surgery

Patient received blood transfusion?

Has more than one year passed since received transfusion?


In case the patient had blood transfusion in the last year our NIPT test is not yet validated and therefore this might decrease the test's performance. The sample is still accepted. The patient acknowledges this risk by signing the consent form.

Sample not qualified for analysis



Stop adding patient and close the form

Sample not qualified for analysis




Please wait until 4 weeks passes before blood draw.

Stop adding patient and close the form

3.4. Sample information

We have created a **new process for adding repeated samples** which is **easier and more intuitive**. This process is specified in the chapter **4.0. Updated resample process**.

Sample information

Doctor <input type="text" value=""/>	Kit barcode <input type="text" value=""/>
DHL waybill number <input type="text" value=""/>	
Blood draw date and time	
24.05.2020 <input type="text" value=""/>	20:16 <input type="text" value=""/>
Service type	
Twins <input type="text" value=""/>	



3.5. Gender information

Like in the previous version, this gives the doctor a chance to mark if the patient wants to know the gender of her baby.

Gender identification

Provide gender identification

3.6. Payer information and comments

There are two payment options. Patients can pay to the clinic or they can pay directly to Geneplanet. If they choose the Geneplanet option, the Payer name window pops up, so they can specify the name of the payer.

The comments sections gives doctors the option to put in additional information that could be relevant to them or to us.

Payment information

Patient paid to:

Comments

Please let us know if you have any additional clinically relevant information about the patient or pregnancy.

When finished, click on the Save patient button

Note: There is no more need to print the request forms.

4. UPDATED RESAMPLE PROCESS

We've included a faster and more reliable option for submitting a resample. Previously the doctors had to go through the entire process of adding a new patient to be able to tick the resample box. From now on they can start the resample process by clicking on the Resample button in the patients view. The status identifier Resample becomes clickable after the status changes to Resample.

Patients

Search by patient name or kit number

Name	Kit	Doctor	Service	Venipuncture	DSV	Status	Edit	Form	Results
Name Surname	12B0000000	Doctor	NIFTY Twins	6 May 2020, 10:00	10	<input type="button" value="Resample"/>	<input type="button" value="Edit"/>	<input type="button" value="Form"/>	<input type="button" value="Results"/>

Clicking on this button opens up a new window, label **Repeated sample**. This is essentially the same as the **add patient** form but with **prefilled fields that remain the same as in the first sampling**. This means that the doctor only needs to fill the required fields that changed from the last sampling. These fields are indicated with an arrow (shown bellow). The fields that are prefilled are not editable.

This offers a faster workflow and less chance for user error.

Repeated sample

Patient information

<input type="text" value="Name"/>	<input type="text" value="Surname"/>
<input type="text" value="12ID1928374"/>	<input type="text" value="12.02.2020"/>
<input type="text" value="931599275"/>	<input type="text" value="name.surname@mail.com"/>
<input type="text" value="178"/>	<input type="text" value="67"/>

Current pregnancy

Estimated due date <input type="text" value="31.01.2020"/>	Gestation age at draw → <input type="text" value="31"/> → <input type="text" value="5"/>
Number of fetuses <input type="text" value="1"/> <input type="text" value="2"/>	
IVF <input type="text" value="Yes"/> <input type="text" value="No"/>	
Vanishing twin syndrome <input type="text" value="Yes"/> <input type="text" value="No"/>	
Surrogate mother <input type="text" value="Yes"/> <input type="text" value="No"/>	
Patient undertakes heparin or heparin analogue therapy (eg. heparin, enoxaparin,...) → <input type="text" value="Yes"/> <input type="text" value="No"/>	
Date of last ultrasound scan → <input type="text" value="DD.MM.YYYY"/>	
Prior screening test → <input type="text" value="Second Trimester"/>	

Fetus 1	Fetus 2
T21: 1/ <input type="button" value="Risk"/>	T21: 1/ <input type="button" value="Risk"/>
T18: 1/ <input type="button" value="Risk"/>	T18: 1/ <input type="button" value="Risk"/>
T13: 1/ <input type="button" value="Risk"/>	T13: 1/ <input type="button" value="Risk"/>

Patient history

Number of pregnancies (Gravida) Number of births (Para)

Previous pregnancies affected by genetic condition

Family history of genetic disease

Is the patient or her partner carrier of a genetic condition

Does the patient have a history of cancer?

Patient received human serum albumin therapy

Patient received cellular immunotherapy with exogenous DNA

Patient received stem cell therapy

Patient had transplant surgery

Patient received blood transfusion?

Sample information

<input type="text" value="Bajic, CanCarevic, Branka"/>	<input type="text" value="Kit barcode"/>	
<input type="text" value="12-3456-7891"/>	<input type="text" value=""/>	
Blood draw date and time		
<input type="text" value="06.05.2020"/>	<input type="text" value="10:00"/>	
Service type		
<input type="button" value="Basic"/>	<input type="button" value="Standard"/>	<input type="button" value="Plus"/>
Repeated sample	Previous kit	
<input type="button" value="Yes"/>	<input type="text" value="20B0000016"/>	

Gender identification

Provide gender identification

<input type="button" value="Yes"/>	<input type="button" value="No"/>
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Payment information

Patient paid to:

<input type="button" value="Clinic"/>	<input type="button" value="Geneplanet"/>
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Comments

Please let us know if you have any additional clinically relevant information about the patient or pregnancy.