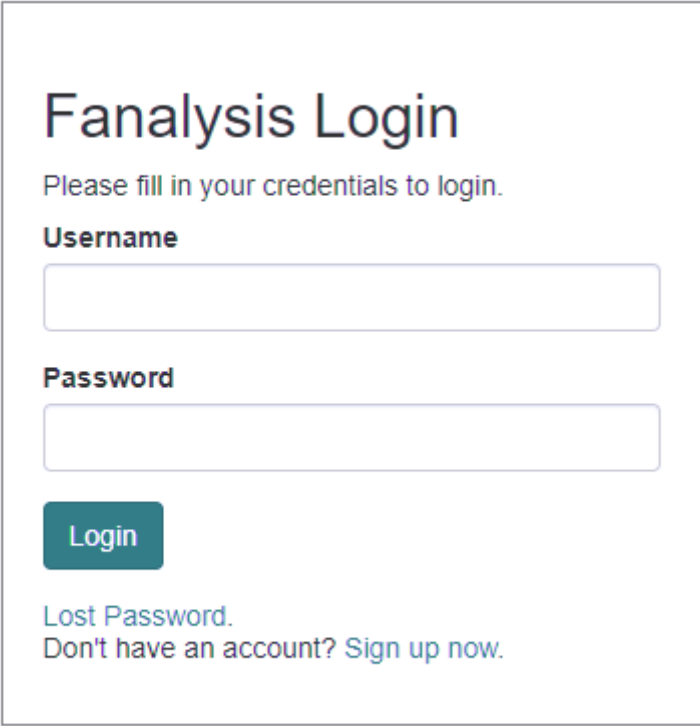


FANALYSIS User Manual

Fanalysis is a web-based Rhinoplasty application. The system, which can be accessed from <https://www.fanalysis.net>, includes tools that will allow a physician to easily make calculations related to his patient.

1 Introduction to Fanalysis



Fanalysis Login

Please fill in your credentials to login.

Username

Password

Login

[Lost Password.](#)
Don't have an account? [Sign up now.](#)

Figure 1 Fanalysis Home Screen

When entering the web page, the physician's login screen is encountered (Figure 1).. On this screen, the user name and password previously created by the physician are written and the system is entered. But if it's your first time logging in, click the "Don't have an account? Sign up now" link. In the new user screen (Figure 2) it is necessary to enter some basic information. This information includes the user name, the physician's Name and Surname, E-mail address, place of work and telephone number.

Fanalysis Sign Up

Please fill this form to create an account.

Username

Password

Confirm Password

The new password must contain at least six characters and categories among the following:

- Uppercase characters (A-Z)
- Lowercase characters (a-z)
- Digits (0-9)
- Special characters (~!@#\$%^&* _+=|(){}[])

Firstname

Lastname

E-Mail

Working Firm

Phone

Already have an account? [Login here.](#)

Figure 2 Fanalysis new user Registration screen

Once the user is created, they will automatically log in to the system, return to the "Welcome" screen and be ready for use (Figure 3).

- Welcome to Fanalysis -

Cibai Olan ARIKAN
Sign Out

Please select Frontal, Basal or Lateral tab first.

Drag and Drop a file here
or Double click into area to upload with file selector!
After upload, Click on an image to use on tab.

Save Frontal image as
Save Frontal
Save All
Load Project
Print

Auto select next option after clicked
 Auto hide lines and points while pointing

Frontal

Lateral

Basal

Operative Plan

Saved Projects

Photographic Analysis

Aesthetic Analysis

Ruler length: mm Supratip (S)

- Ruler Begin (RB)
- Ruler End (RE)
- Vertex (V)
- Trichion (Tr)
- Glabella (G)
- Lateral border of Head - Left (LHL)
- Lateral border of Head - Right (LHR)
- Nasion (N)
- Rhinion (R)
- Endocanthus - Left (ENL)
- Endocanthus - Right (ENR)
- Lateral canthus - Left (LCL)
- Lateral canthus - Right (LCR)
- Widest point of dorsum - Left (WDL)
- Widest point of dorsum - Right (WDR)
- Lower bony vault - Left (XL)
- Lower bony vault - Right (XR)

- Tip (T)
- Tip defining point - Left (DL)
- Tip defining point - Right (DR)
- Alar flare - Left (ALL)
- Alar flare - Right (ALR)
- Subnasale (Sn)
- Labrale superius (LS)
- Stomion (St)
- Menton (Me)
- Medial brow - Left (MBL)
- Medial brow - Right (MBR)
- Lateral brow - Left (LBL)
- Lateral brow - Right (LBR)
- Lateral limbus - Left (LLL)
- Lateral limbus - Right (LLR)
- Medial limbus - Left (MLL)
- Medial limbus - Right (MLR)

Photometric Analysis

Figure 3 Fanalysis logged in screen view

If the user wants to change the data entered during registration or wants to log out from the system, he can use the buttons in the upper right-hand part of the screen. Can update their

information and password by pressing username-last name. You can also log out of the system by pressing the "Sign out" button.



Figure 4 Fanalysis user update and logout links

2 Fanalysis Tools

There are 3 basic sections on the usage screen (Figure 5). These sections are respectively the area for uploading the patient photographs (1), the selection of the working zone (2) and the entry areas of the standard determination points and patient details determined according to the mode of operation (3). The features of these areas, respectively, are described in detail below.

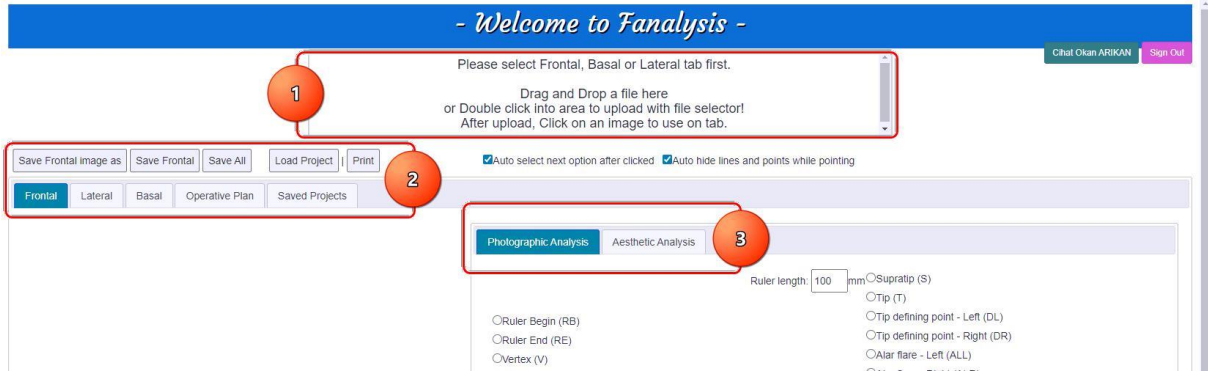


Figure 5 Fanalysis process menu sections

2.1 Patient Photos Upload Area

The photo upload area allows the patient's previously taken photos to be made ready for use. This field works in two ways. The photos that are requested to be uploaded can be dragged and dropped directly into this area in the window or loaded using the image selection window by double-clicking on the area with the mouse .

Uploaded images are shown scaled down in space (Figure 6). Whichever of these photos will be worked with in the working area, it is ensured that the photo on the loading area is clicked once and transferred to the relevant area.



Figure 6 Loaded pictures view

After the photos are uploaded to the upload area, the physician must select in which area to work (Frontal, Lateral, Basal) on and the photo will be transferred to the bottom-left side by clicking once on the desired image (Figure 7). After transferring the photograph to the relevant area, Photographic analysis operations of the selected area can be performed.

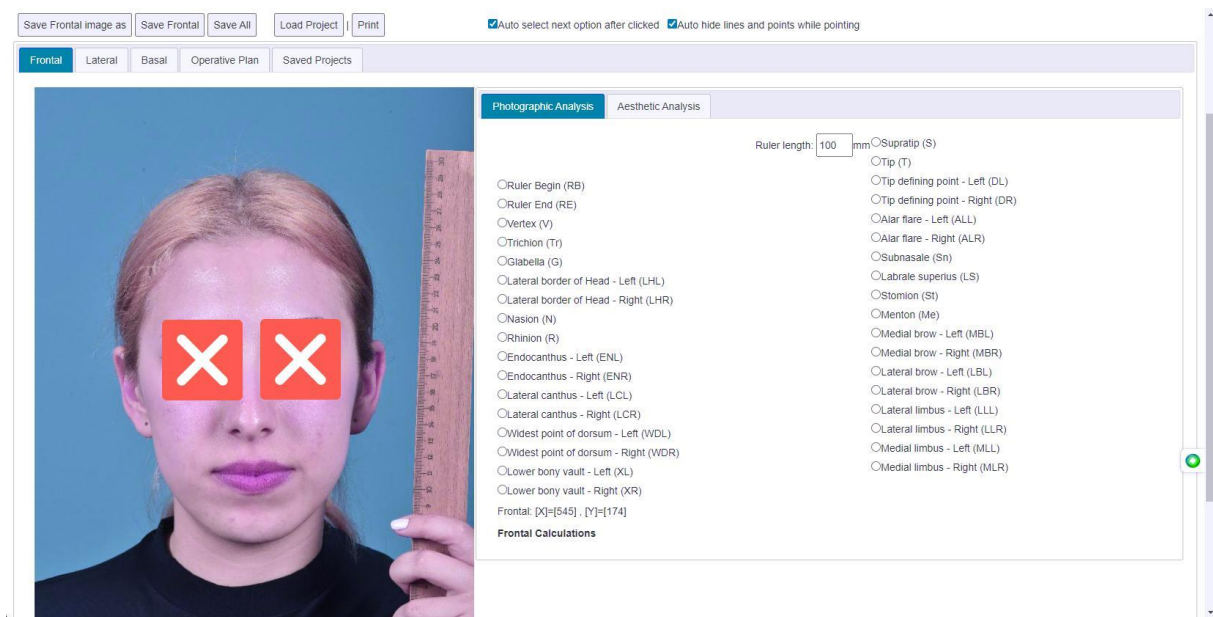


Figure 7 Picture loaded and selected from the loader area

2.2 Work Region Selection

The working region is used to define the data of the physician's patient before the procedures to be performed. By selecting one of the Frontal (Frontal), Lateral and Basal (Bottom) appearance shapes, it is ensured that the data of the relevant section are prepared.

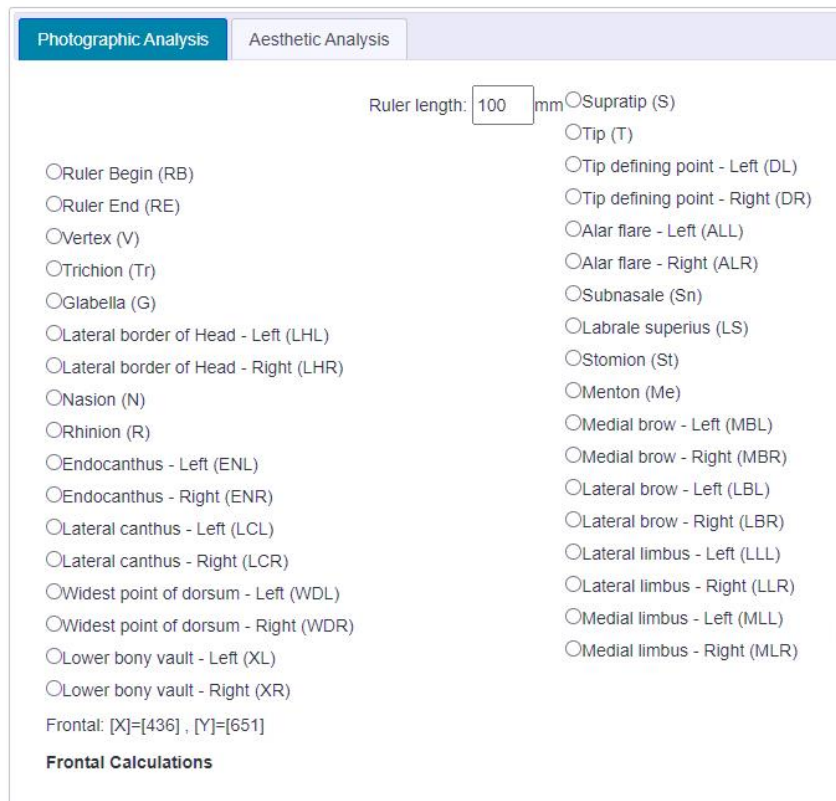


Figure 8 Photographic analysis options for Frontal area

The first operation to be performed in the photographic analysis section is ruler calibration. When taking pictures, there may be a deviation from the actual dimensions depending on the ambient distance or the characteristics of the camera. For this reason, it is usually ensured that the actual dimensions of the patient are proportioned with the help of a ruler. For ruler orientation in Fanalysis, the ruler length in the Photographic analysis section is written. Then Ruler Begin (RB) is marked from the trading points and a point on the ruler on the picture on the left part is clicked with the left button. Ruler End (RE) is selected and this time a point forward to the specified ruler length is clicked with the left button. Thus, the pixel length in the RB-RE range is calculated and the ratio between the actual width of the photo and this length is used in other calculations. During the marking of the points, the area hovered over the picture is zoomed in to make it seen more clearly.

When marking the decisive points, if the "Auto select next option after clicked" option at the top is active, the next point is automatically selected as soon as the left mouse button is pressed. When each point is selected, the mouse is moved over the picture and the left button is pressed on the relevant point and it is marked. If the "Auto hide lines and points while pointing" option is active, when each point is selected, the previous points are automatically hidden to prevent the points from overlapping each other. When the mouse is pulled out over the picture, all the marked points are shown together on the picture.

2.3 Analysis Details Selection

During the determination of facial regions, there are different determining points in each section (Frontal, Lateral, Basal). For this reason, the process should be started by selecting the

part to be studied. After the section is selected, the options on the right automatically change and the necessary information is entered by the physician. The information entered by the physician is selected in 2 stages (Figure 9).

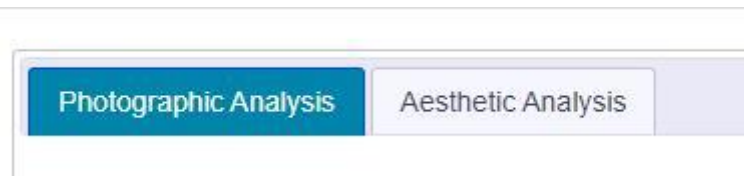


Figure 9 Working section options selector

In the photographic analysis section, it is ensured that facial areas are marked on the patient picture. In the aesthetic analysis section, there are options where the studies planned to be carried out by the physician on the patient are determined. As the points in the photographic analysis options are marked on the picture, the data that needs to be calculated depending on these points is automatically calculated and shown in the "Frontal/Lateral/Basal Calculations" fields at the bottom of the screen (Figure 10).

Apart from the numerical data about the patient, the "Aesthetic Analysis" tab is used for the features that the physician will specify for the purpose of visual evaluation (Figure 11).

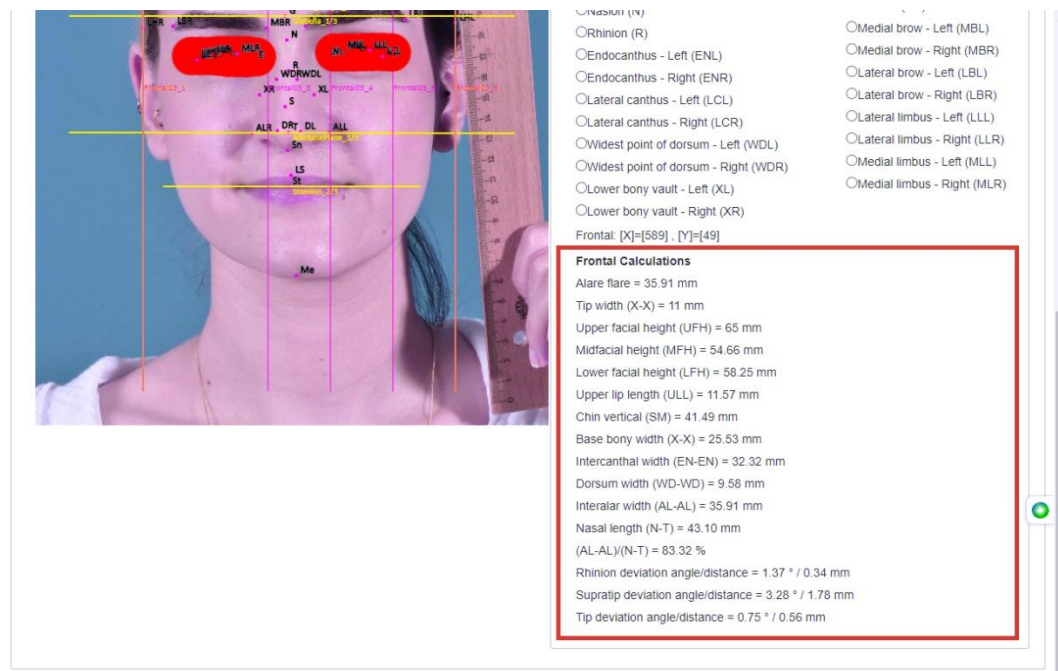


Figure 10 Frontal/Lateral/Basal Calculations values

Save Save Operational Plan Save All Load Project Print Auto select next option after clicked Auto hide lines and points while pointing

Frontal Lateral Basal **Operative Plan** Saved Projects

Operative Plan

Projection	Do not disturb	
Rotation	Do not disturb	111 mm
Type of procedure	Rhinoplasty	
Inferior turbinate surgery	-	
Other intranasal surgery	Partial resection	
Other intranasal surgery	ois	
Incisions	Killian	
Approach	Delivery	
Septum	Caudal edge resection	
Septum	Middle	
Dorsum (Profile alignment)	Lateral view	Augmentation
Dorsum (Profile alignment)	Frontal view	Do not disturb
Radix	Do not disturb	
Lateral crura	Do not disturb	
Reorientation sutures	<input checked="" type="checkbox"/> Tongue-in-Groove <input checked="" type="checkbox"/> Transdomal suture <input checked="" type="checkbox"/> Domal suture Left+Right <input checked="" type="checkbox"/> Septocolumellar suture <input checked="" type="checkbox"/> Interalar suture <input checked="" type="checkbox"/> Intermediate crura sutured together <input checked="" type="checkbox"/> Footplate narrowing suture	
Other(s):	1) other1 2) other2 3) other3	
Medial crura	Caudal margin resection	
Nasal Packing	Vaseline gauze	
Nasal Packing	Splint	Left
Nasal Packing	Merocel	Right
Nasal Packing	Vaseline gauze	Left+Right

Alar Reduction	<input checked="" type="checkbox"/> Nostril																																													
Alar Reduction	<input checked="" type="checkbox"/> Nostril floor																																													
Alar Reduction	<input checked="" type="checkbox"/> Alar lobule																																													
Nasolabial angle	Augmentation																																													
Osteotomies	Medial Left																																													
Osteotomies	Lateral Right																																													
Osteotomies	Intermediate Bilateral																																													
Osteotomies	Transverse None																																													
Other procedures	<input checked="" type="checkbox"/> Mentoplasty																																													
Other procedures	<input checked="" type="checkbox"/> Blepharoplasty																																													
Other procedures	<input checked="" type="checkbox"/> Closure of septal perforation																																													
Other procedures	Other other																																													
Miscellaneous	<input checked="" type="checkbox"/> Quilting suture																																													
Miscellaneous	<input checked="" type="checkbox"/> Division of depressor septi muscle																																													
Miscellaneous	<input type="checkbox"/> Vestibular skin resection																																													
Grafts	<table border="1"> <thead> <tr><th>Graft type</th><th>Side</th><th>Material</th></tr> </thead> <tbody> <tr><td><input checked="" type="checkbox"/> Columellar strut</td><td></td><td>Septal Cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Spreader graft</td><td>Left</td><td>Auricular cartila</td></tr> <tr><td><input checked="" type="checkbox"/> Spreader flap</td><td>Right</td><td></td></tr> <tr><td><input checked="" type="checkbox"/> Shield graft</td><td></td><td>Costal cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Tip graft (Peck)</td><td></td><td>Septal Cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Lateral crural graft</td><td>Bilater</td><td>Septal Cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Lateral crural strut graft</td><td>Left</td><td>Septal Cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Alar batten</td><td>Right</td><td>Auricular cartila</td></tr> <tr><td><input checked="" type="checkbox"/> Rim graft</td><td>Bilater</td><td>Costal cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Radix graft</td><td></td><td>Costal cartilage</td></tr> <tr><td><input checked="" type="checkbox"/> Caudal septal extension graft</td><td></td><td>Auricular cartila</td></tr> <tr><td>Other 1)</td><td>other1</td><td></td></tr> <tr><td>Other 2)</td><td>other2</td><td></td></tr> <tr><td>Other 3)</td><td>other3</td><td></td></tr> </tbody> </table>	Graft type	Side	Material	<input checked="" type="checkbox"/> Columellar strut		Septal Cartilage	<input checked="" type="checkbox"/> Spreader graft	Left	Auricular cartila	<input checked="" type="checkbox"/> Spreader flap	Right		<input checked="" type="checkbox"/> Shield graft		Costal cartilage	<input checked="" type="checkbox"/> Tip graft (Peck)		Septal Cartilage	<input checked="" type="checkbox"/> Lateral crural graft	Bilater	Septal Cartilage	<input checked="" type="checkbox"/> Lateral crural strut graft	Left	Septal Cartilage	<input checked="" type="checkbox"/> Alar batten	Right	Auricular cartila	<input checked="" type="checkbox"/> Rim graft	Bilater	Costal cartilage	<input checked="" type="checkbox"/> Radix graft		Costal cartilage	<input checked="" type="checkbox"/> Caudal septal extension graft		Auricular cartila	Other 1)	other1		Other 2)	other2		Other 3)	other3	
Graft type	Side	Material																																												
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Other 1)	other1																																													
Other 2)	other2																																													
Other 3)	other3																																													
Camouflage / Material	<input checked="" type="checkbox"/> Radix	Cartilage chips																																												
Camouflage / Material	<input checked="" type="checkbox"/> Middle third	Thinned cartilage																																												
Camouflage / Material	<input checked="" type="checkbox"/> Tip	Cartilage dust																																												
Lateral Profile Changes (mm)	Radix	radix																																												
Lateral Profile Changes (mm)	Rhinion	rhinion																																												
Lateral Profile Changes (mm)	Middle Vault	middle vault																																												
Lateral Profile Changes (mm)	Supratip	supratip																																												
Lateral Profile Changes (mm)	Tip	tip																																												
Lateral Profile Changes (mm)	Subnasale	subnasale																																												
Additional remarks	additional																																													

Figure 12 Fanalysis Operative Planning options

Operative Planning options can be modified and filed according to the patient's condition at different dates, so that changes in the patient can be easily tracked.

4 Fanalysis Save/Load Options

The operations on the pictures of the patient performed with Fanalysis can be saved with the recording options and then used later again. Recording operations (Figure Figure 13 are as follows: saving the marked photograph in the working area in JPG format (Save Frontal/Lateral/Basal/Op.Plan image as); saving all markings and settings on a region-by-region basis (Save Frontal/Lateral/Basal/Op.Plan); saving all processed regions in a single file (Save All) Available.

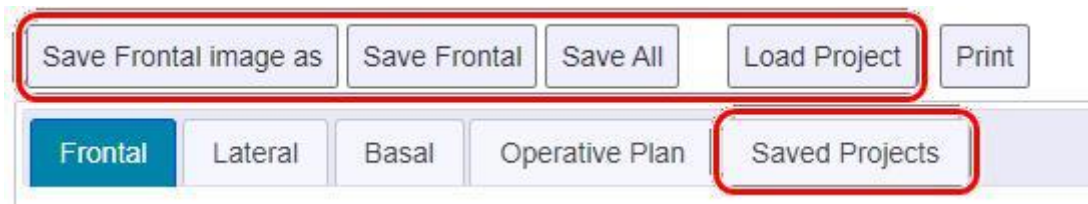


Figure 13 Fanalysis Save-Load options

The data recorded with Fanalysis is stored as files with the extension ".rhw". During saving, the physician can give the file the name he wants. These files are stored on the server and downloaded to the computer via the internet browser to be a backup immediately after recording. The data held on the server can be accessed via the "Saved Projects" tab (Figure 14).

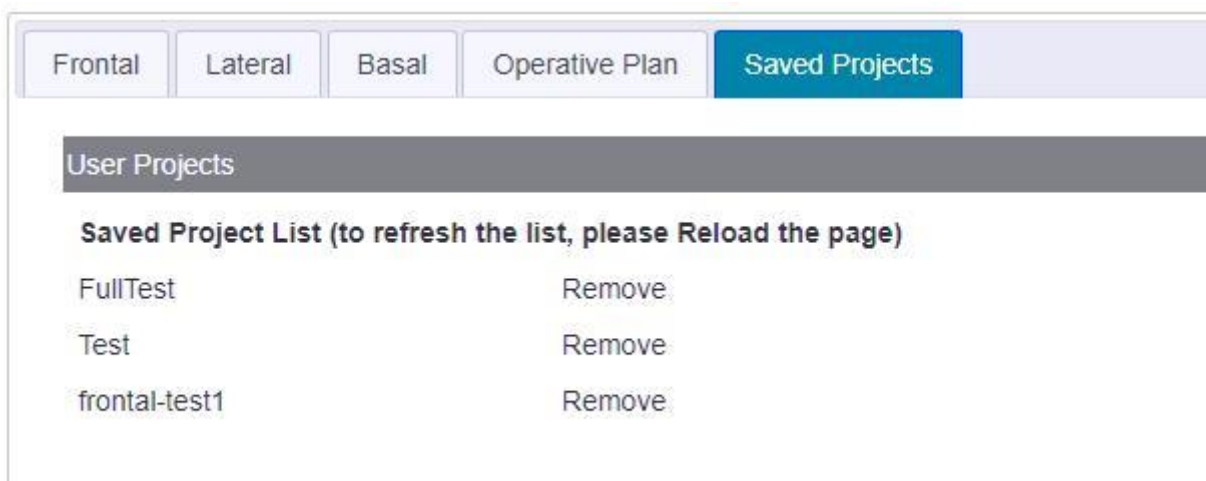


Figure 14 Fanalysis saved projects page

The projects on the page where the data stored by the physician are listed, can be reloaded by clicking on them. However, if the relevant record is desired to be deleted from the server, it is possible to delete it by clicking the "Remove" button.

5 Fanalysis Reports


All transactions performed in the Photographic analysis and Aesthetic analysis sections of Fanalysis can be recorded as a report. The "Print" option in the options on the screen instantly displays the report for the active section. The reports show the results of the calculations made according to the marked determining points, the results of aesthetic analysis and the photograph used in the relevant section (Figure 1515).

The report for each section must be taken separately. The reports shown on the screen can be printed out or, if desired, saved in PDF format and used later.

Fanalysis. Frontal Report fileF.jpg

Frontal Calculations
 Alare flare = 35.91 mm
 Tip width (X-X) = 11 mm
 Upper facial height (UFH) = 65 mm
 Midfacial height (MFH) = 54.66 mm
 Lower facial height (LFH) = 58.25 mm
 Upper lip length (ULL) = 11.57 mm
 Chin vertical (SM) = 41.49 mm
 Base bony width (X-X) = 25.53 mm
 Intercanthal width (EN-EN) = 32.52 mm
 Dorsum width (WD-WD) = 9.58 mm
 Lateral width (AL-AL) = 35.91 mm
 Nasal length (N-T) = 43.10 mm
 (AL-AL)(N-T) = 83.32 %
 Rhinion deviation angle/distance = 1.37° / 0.34 mm
 Supratip deviation angle/distance = 3.28° / 1.78 mm
 Tip deviation angle/distance = 0.75° / 0.56 mm

Aesthetic Analysis
 Face Shape : -
 6 S : Proportional
 Horizontal thirds : Proportional
 Vertical fifths : Proportional
 Facial asymmetry : No
 Facial asymmetry (specify) :
 Brow-Tip Aesthetic Line Right : Smooth
 Brow-Tip Aesthetic Line Left : Smooth
 Skin Thickness : -
 Skin Sebaceous glands : -
 Skin Discoloration : -
 Mobility of the skin : Normal
 Skin Freckles : No
 Scar Scar : No
 Scar Dorsum : No
 Scar Sidewall-left : No
 Scar Sidewall-right : No
 Scar Radix : No
 Scar Tip : No
 Scar Alar-left : No
 Scar Alar-right : No
 Scar Specify :
 Deviation Bony vault Right : No
 Deviation Bony vault Left : No
 Deviation Tip Right : No
 Deviation Tip Left : No
 Deviation Cartilaginous vault Right : No
 Deviation Cartilaginous vault Left : No
 Radix : -
 Bony vault : -
 Cartilaginous vault : -
 Tip : -
 Alar axis : -
 Alar size : -
 Alar symmetry : No
 Alar Flare : -
 Infratip lobule : -
 Chin width : -
 Others Supraalar pinching : No
 Others Tip bifidity : No
 Others Parenthesis deformity : No
 Others Unutip deformity : No
 Others Bulbosity : No
 Others Asymmetry : No
 Others Cephalically oriented lateral crura : No
 Others Additional remarks :



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Figure 15 Fanalysis Reports example for Frontal section