Smart Nutrition System

Siemens technical assignment

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Technologies used: QT c++ (Widgets GUI , Network Model), SQLite

How to use the System:

Launch Steps "Server Side" (Runs First):

1. Open ServerSide_App Folder and Run the "AppRun" Which would Launch The Server Side and should be greeted with a successful connection to SQLite database.

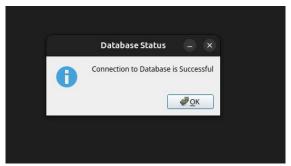
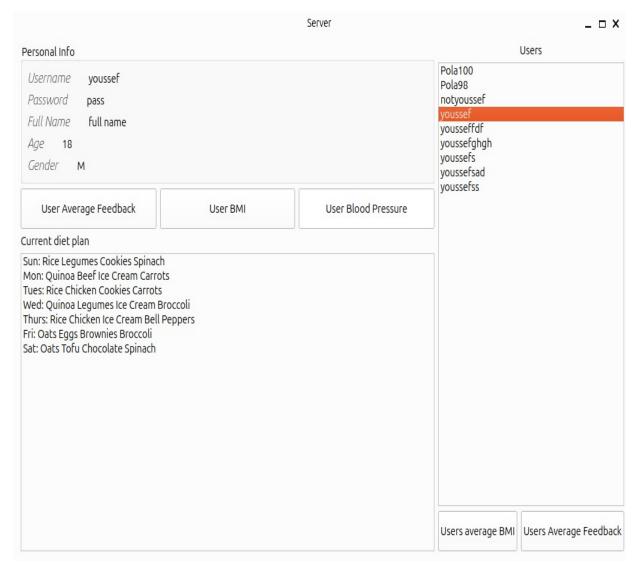


Figure 1: DataBase Connection Success

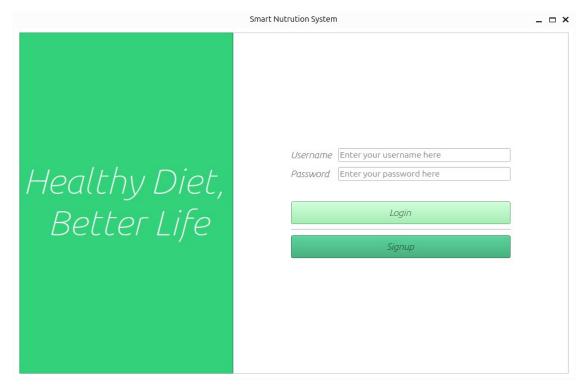
2. then, the main window for the server side shows the current users and their data and automatically gets updated whenever a new user signs-up.



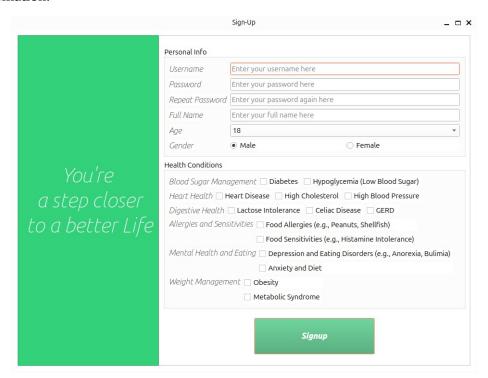
3. To retrieve a user information and current diet plan, Simply, press the client from client list in right corner.

Launch Steps "Patient Side":

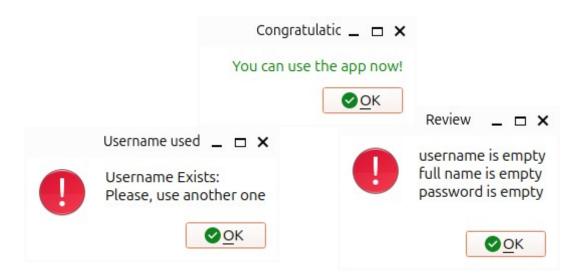
1. Open Patient_app folder and Run executable and Welcome screen should pop up where you can either choose to Sign in or Create a new account.



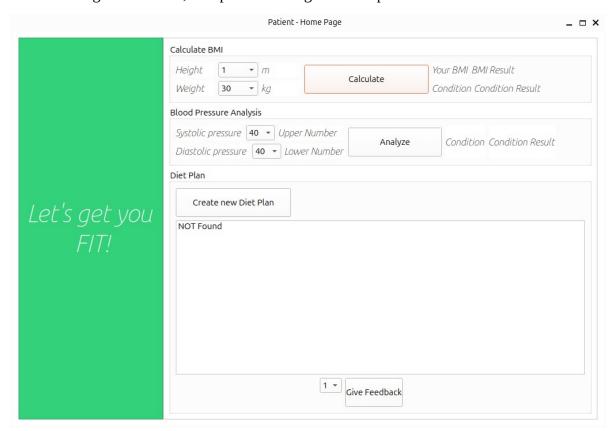
2. Upon Clicking New Signup, a new Sign-up Window would pop-up to fill with patient information.



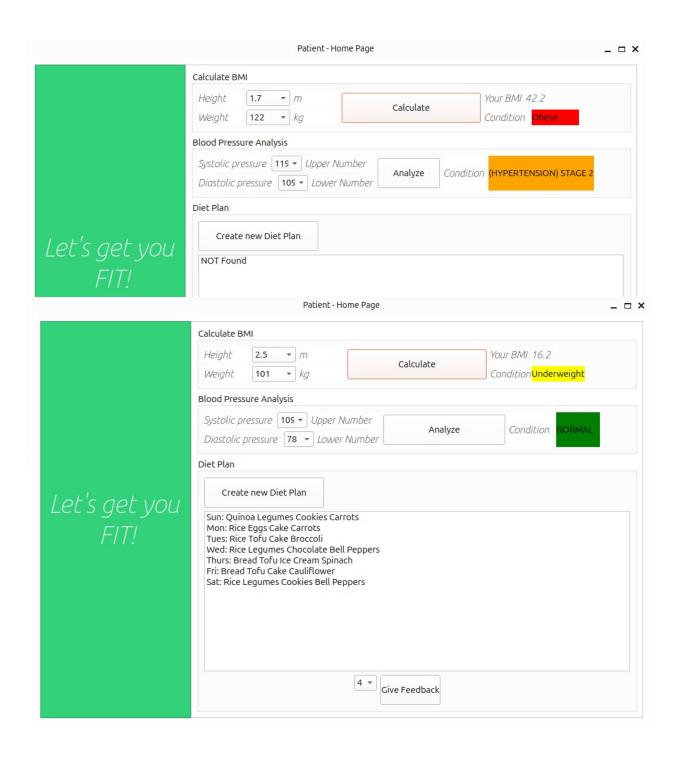
3. After clicking Create, the account either gets created if the information provided and get a dialogue confirming the creation of the new account otherwise you get something went wrong message.



4. Following the Creation, The patient can sign-in and open his account.



5. The user can choose to either calculate his BMI from height and weight, get Blood Pressure condition or get a new balanced diet plan and give the plan a feedback score.



REFERENCE:

BLOOD PRESSURE CATEGORY	SYSTOLIC mm Hg (upper number)	and/or	DIASTOLIC mm Hg (lower number)
NORMAL	LESS THAN 120	and	LESS THAN 80
ELEVATED	120 – 129	and	LESS THAN 80
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 1	130 – 139	or	80 – 89
HIGH BLOOD PRESSURE (HYPERTENSION) STAGE 2	140 OR HIGHER	or	90 OR HIGHER
HYPERTENSIVE CRISIS (consult your doctor immediately)	HIGHER THAN 180	and/or	HIGHER THAN 120

BMI =

Adult BMI

ВМІ	Status
≤ 18.4	Underweight
18.5 - 24.9	Normal
25.0 - 39.9	Overweight
≥ 40.0	Obese