Fewa Telemedicine Technical document

Version 1.0

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## Introduction

By Shiv

## Domain explanation

## Overall Architecture

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## Code repository

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## Building and running the project

As discussed the overall architecture session of project has been given software requires as follow.

1. Visual studio 2019 community edition.
2. Vs code.
3. Postgre sql.

**Prerequisites**

You need VS Code(for Client), visual studio(for API), Postgre sql server(for Database), Angular 7

Download VS Code from [here](https://code.visualstudio.com/download)

Download Visual Studio from [here](https://visualstudio.microsoft.com/downloads/)

Download Postgre SQL server from [here](https://www.postgresql.org/download/)

Download Angular 7 from [here](https://cli.angular.io/)

**Running the application**

**Clone or download repository**

git clone https://github.com/opensource-emr/Telemedicine

**NPM Installation for Angular Project**

To Install and Run angular project go through below steps:

Step 1: Go to **Telemedicine-master\FewaTelemedicine\ClientApp** path and copy.

Step 2: Open Your Node.js Command Prompt paste the copied path and execute

**npm install** command.

Step 3: Once the **npm install** done successfully than execute **ng build --watch** command. So, some of you wondering that what is **ng build and --watch**. Here it is **ng build** ( It build you angular code) and **--watch** ( It runs in background so that whenever you change the code and save it. It gets build automatically.)

**Note :**

you can also open Angular Project in visual studio code from there you will do **npm install** and **ng build --watch**.

**Database Creation**

**Create Database with below steps**

1. Go to Start and serch pgAdmin and open
2. Create one Data Base **Telemedicine.**

**FewaTelemedicine Basic Changes, Build and Run Project**

Step 1: Go to **Telemedicine-master\ FewaTelemedicine.sln** path and double click on solution file to open project in Visual Studio 2019.

Step 2: Open Solution Explorer and find **appsetting.json** file into FewaTelmedicine Web Application and change the **connectionstring** properties as per database and server name.

Step 3:Copy the script from ClientApp->index.html and past it from Views->Home->Index.cshtml

Step 4: open Tools->NugetPackageManger->Package Manger Console -> After opening the package manger console run this command **add\_migration m** The build is successful complete after run thisCommand **update-database .**

Step 3: Once changes done then save the file.

Step 4: Now build **Telemedicine** web Application and run it.

## DB Design understanding.

Practice

|  |  |
| --- | --- |
| PracticeId | This is a unique identifier in DB for values. |
| Name | The name of the practice. This can be the hospital name , doctor name , clinic name or any entity/organization which provides service. |
| Address | The address where the practice resides. |
| Contact Number | The contact number of the practice. |
| Email | The Email address of practice .Can be doctor email or clinic email. |
| Description | The Description of practice.Can be short information about the hospital or clinic. |
| Calling Platform | The Calling Platform is the type of video conferencing that is used for patient and doctor call . We are currently using Jitsi and Tokbox where Jitsi is Free Video conferencing platform. |
| Url | The Url of provider that is appended after Hospital url and is visible in address bar to sort out patients depending on provider. |
| Logo Path | The file path of the Logo of respective Practice that is stored within project solution folder. |
| Email API Key | The Email API Key holds the value of Twilio API Key that is used to send Email Invitation to Patients. |
| Email API Name | The Email API Name represents name of the Email that is sent as Invitation. |
| Email Plain Body |  |
| Email Subject | The Email Subject represents the Subject of the Email Content send as Invitation. |
| Email Html Body | The Email HTML Body represents the body of the Email in HTML Format. |
| Email Additional Content | The Email Additional Content represents the additional content that should be displayed in Email Content apart from the HTML Body. |
| Email Message |  |
| SMS API Account SID | The SMS API Account SID represents the username which is available in twilio console and is used to send SMS Invitation using Twilio API. |
| SMS API Auth Token | The SMS API Auth Token represents the password which is available in twilio console and is used to send SMS Invitation using Twilio API. |
| SMS Phone Number | The SMS Phone Number represents the contact number from which SMS will be sent. |
| Server Name | The Server Name represents name of server on which Fewa Application is running. |

Provider

|  |  |
| --- | --- |
| ProviderId | This is unique identifier in DB that stores a specific provider details. |
| Username | The Username is the username of a specific provider where provider can be doctor Name |
| Password | The password is the Password of a specific provider. |
| NameTitle | The NameTitle represents the first title of the provider Name can be Dr,Mr,Ms or Nurse. |
| Name | The Name represents Name of Provider. |
| Email | The Email Address represents Email of Provider. |
| Designation | The Designation represents Designation of the Provider. |
| MedicalDegree | The MedicalDegree is a string represented by MedicalDegree of Provider. |
| Mobile Number | The Mobile Number represents mobile number of the provider. |
| Image | The Image field stores Image ie Profile Picture of the Provider in byte format . |
| Room Name | The Room Name represents name of the Jitsi Room of Provider. |
| Room Key | The Room Key represents Key of the Room of Jitsi Video Platform. |
| Url | The Url represents Url Parameter (ie Default provider Name) that is to be appended to Application Url . |
| PracticeId | The PracticeId is a foreign key relationship that maps every provider with a specific Practice. |

Patient

|  |  |
| --- | --- |
| PatientId | This is a unique identifier in DB for a specific patient. |
| Appointment Date | The Appointment Date is a Date field that stores the Date of Appointment. |
| Start Time | The Start Time stores the time when video conferencing of patient and doctor starts. |
| End Time | The End Time stores the time when video conferencing of doctor and patient ends. |
| Url | The Url consists of Url parameter (Name of Attending Doctor) that is appended to application Url. |
| ProviderId | This is foreign Key relationship that maps patients to a particular provider with the help of providerId. |

## Understanding folder structure

|  |  |  |
| --- | --- | --- |
|  | Folder name | Explanation |
| Server-side folders | Controllers | This has all the controller code of the project |
|  | Services | This is has all code for sending email and SMS. |
|  |  |  |
|  |  |  |
|  |  |  |

## Parameter table

## Video embed

Tokbox….