

A Thesis/Project/Dissertation Report

on

DentalWebApp

*Submitted in partial fulfillment of the
requirement for the award of the degree of*

Bachelor Of Technology



(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

**Under The Supervision of
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December, 2021



**SCHOOL OF COMPUTING SCIENCE AND
ENGINEERING
GALGOTIAS UNIVERSITY, GREATER NOIDA**

CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the thesis/project/dissertation, entitled "CAPS...." in partial fulfillment of the requirements for the award of the Bachelor of Technology submitted in the School of Computing Science and Engineering of Galgotias University, Greater Noida, is an original work carried out during the period of month, Year to Month and Year, under the supervision of Name... Designation, Department of Computer Science and Engineering/Computer Application and Information and Science, of School of Computing Science and Engineering , Galgotias University, Greater Noida

The matter presented in the thesis/project/dissertation has not been submitted by me/us for the award of any other degree of this or any other places.

Shashank Shekhar Pandey (18SCSE1010635)

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

Mr. Abhay Kumar
Designation

CERTIFICATE

The Final Thesis/Project/ Dissertation Viva-Voce examination of Shashank Shekhar Pandey has been held on _____ and his/her work is recommended for the award of Bachelor of Technology

Signature of Examiner(s)

Signature of Supervisor(s)

Signature of Project Coordinator

Signature of Dean

Date: November, 2013

Place: Greater Noida

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DentalWebApp

Acknowledgement

I want to thank Adarsh kumar from Galgotias College of Engineering and Technology for helping me in this project as well as Avneesh Pathak from Galgotias University ,Harry youtuber from youtube channel Code with harry and Howto youtube channel for solving my template does not exist error.

Abstract

First error I encountered was when I was giving command “python manage.py runserver” in windows powershell for my project in pycharm IDE it was just displaying Hi,pycharm and it was not providing me url of my website ,Second was ,when I was searching the url given by Django it was showing template does not exist ,Third error I encountered was ,when I attached all web page template files to my project and did python manage.py runserver ,it was showing error cant migrate. The home page template I had downloaded and connected with my project has php file and not html file and I don't have knowledge of php.

I changed my interpreter from existing python interpreter to virtual environment interpreter which was compulsory for providing my url and I also deleted all previous files since it was just the beginning there was not a lot of things present in project till then ,then I downloaded all packages again and did same task by using power shell and it worked .For template does not exist problem I went to setting.py file in my project and in TEMPLATES list code inside ‘DIRS’ list I added path to directory and before that syntax i.e. [r' path.....'],when I applied this every thing was displaying on my website.Third problem solution was a command “python manage.py migrate” .It installed all required packages and my problem was solved.

I tried for more than 3days to find somehow required codes of php from internet and continue my project but I'm consistently getting error,so I'm doing project from scratch and this time I have a web template with *html* code,css,javascript,image file.

I have used *python 3* language in backend using *Django* framework ,*pycharm ide,windows powershell* and *cmd* for commands ,php for home page ,css for designing,javascript and html.

First result was a url given by Django after running command `python manage.py runserver 128:....` Something like this and going to that url it displayed , "The install worked successfully! Congratulations!, i.e my web app page .Second Hello World ! displayed on website after adding web page templates to my project and

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since I had written hello world to display in php code ,so that displayed means code was working fine .

I had attached php templates in my Django python project , since I was a beginner in development it took time to resolve errors but now I'm comfortable with using it and I'll finish this project very soon .I have added Images and Tweak CSS ,Contact pages in Django ,connecting email with Django, I have to add web pages ,build dental appointment form . After these my web app will be ready.

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Acronyms

B.Tech.	Bachelor of Technology
M.Tech.	Master of Technology
BCA	Bachelor of Computer Applications
MCA	Master of Computer Applications
B.Sc. (CS)	Bachelor of Science in Computer Science
M.Sc. (CS)	Master of Science in Computer Science
SCSE	School of Computing Science and Engineering

CHAPTER-1.1 Introduction

My project i.e. DentalWebApp is a web app where any patient can directly visit from home and book appointment with dentists ,This web app is for a particular dentist ,after websites like amazon.com and flipkart.com everyone is working globally and making website that can help anyone from any part of the world but the reality in medical field is that a doctor living in USA can't check his patients condition online in India ,atmost they can ask your symptoms ,So your local doctors ,surgeons and dentists are more helpful for you .Since most of them don't have an online website where patients can book appointment ,patients has to stand in queue and many times bed availability is null still patients reach that hospital in emergency then they get to know it is full so they go somewhere else which even take a patients like in emergency condition .So to deal with this problem I'm starting with a dental web app and later I'll also add same functionality for doctors and surgeons .I'm making this website to sell them and hosting along with solving patients need.

CHAPTER-1.2 Introduction

1.2 Formulation of Problem

- 1.Delay in treatment of patients due to lack of availability of beds .
- 2.In case of emergency patients move from one hospital to another because of lack of information about “which part of his body is damaged and where they can get doctor specialized in that part of body “ and most importantly if that doctor is available at that time or not because all hospitals don’t have 24 hrs service of all parts of body at most they have some doctors to take care of heart attack emergency ,high blood pressure like these but many old people or patients suffer have consequences on their body which needs specialists like nerve diseases their hand stops working or any other part of their

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body when they are suffering from any other disease at same time or mostly in case of infection a normal sugeon can’t treat such patients.

3.Contact number of doctors are not generally saved in anyone’s mobile unless they get sick ,patients can’t get helpline number of nearest hospital in emergency so he can’t get treatment unless he reaches hospital

4.Condition of admitted patients is not sent to their family so they don’t have any idea about what is going on with his family member in admitted in hospital unless they are not staying hospital which is very stressful if they are staying more than 2 – 3 days ,mostly after some days if a patient is not recovered there family members just go there once in a day ,even that takes time and money of that individual and most importantly asking doctor for what is condition of my patient takes some times even more than a day which is a lot for a serious patient because doctors have other patients and other hospitals too where they have to go, so they reply to family members of patients only when they came for treatment and you are exactly there in front of his ICU room otherwise there’s no way you can communicate with them ,there’s no way where he can just update status of patient and any family member can check it .

Chapter3

Functionality/Working of Project

It is a web app which can be used by any hospital to connect with patients directly through website. It looks like now everything everyone is online but the fact is only big and famous hospitals have a proper website for their hospital and doctors of town and village or of private clinic still don't have website and patients suffer because of this .Doctors complain is that they don't know these technical things and their excuse is, it doesn't matter whoever(patient) knows about me come to me directly ,But indeed like we order food from Zomato we don't remember the name of restaurant it is coming from similarly very few patient knows about all the doctors in their

region ,they just know one or doctors and for any kind of disease they consult them which leads to suffering because doctors generally don't refer patients ,they give treatment as much they have knowledge which leads to delay in his recovery and identification of exact problem he is facing,we must have a data of how many specialist doctors are in our region ,so that we can directly contact them.let me mention some problems that I'm solving with my project

1.Delay in treatment of patients due to lack of availability of beds.

Soln : This can be solved by showing number of beds available directly on website.

2.In case of emergency patients move from one hospital to another because of lack of information about "which part of his body is damaged and where they can get doctor specialized in that part of body " and most importantly if that doctor is available at that time or not because all hospitals don't have 24 hrs service of all parts of body at most they have some doctors to take care of heart attack emergency ,high blood pressure like these but many old people or patients suffer have consequences on their body which needs specialists like nerve diseases their hand stops working or any other part of their body when they are suffering from any other disease at same time or mostly in case of infection a normal sugeon can't treat such patients.

Solution : I'll provide number of beds available as well as name of specialist of each part of body as well as status of availability of each doctor in hospital on website.

3.Contact number of doctors are not generally saved in anyone's mobile unless they get sick ,so they can get that any time from visiting my website.

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Its hierarchy will be as follow :

Press 1 for enquiry

Press 2 to select which part of body needs to be checked

Then it will connect patient with an assistant doctor who can atleast help him instantly by telling him some home remedies and then after knowing his

symptoms he will refer that patients need to come to hospital or not
 If yes he will tell him to book which appointment and check up and then patients can follow the right procedure.

4. Condition of admitted patients will be sent through mail to their parents or their family members.

Chapter -2
Litrature Survey \Project design

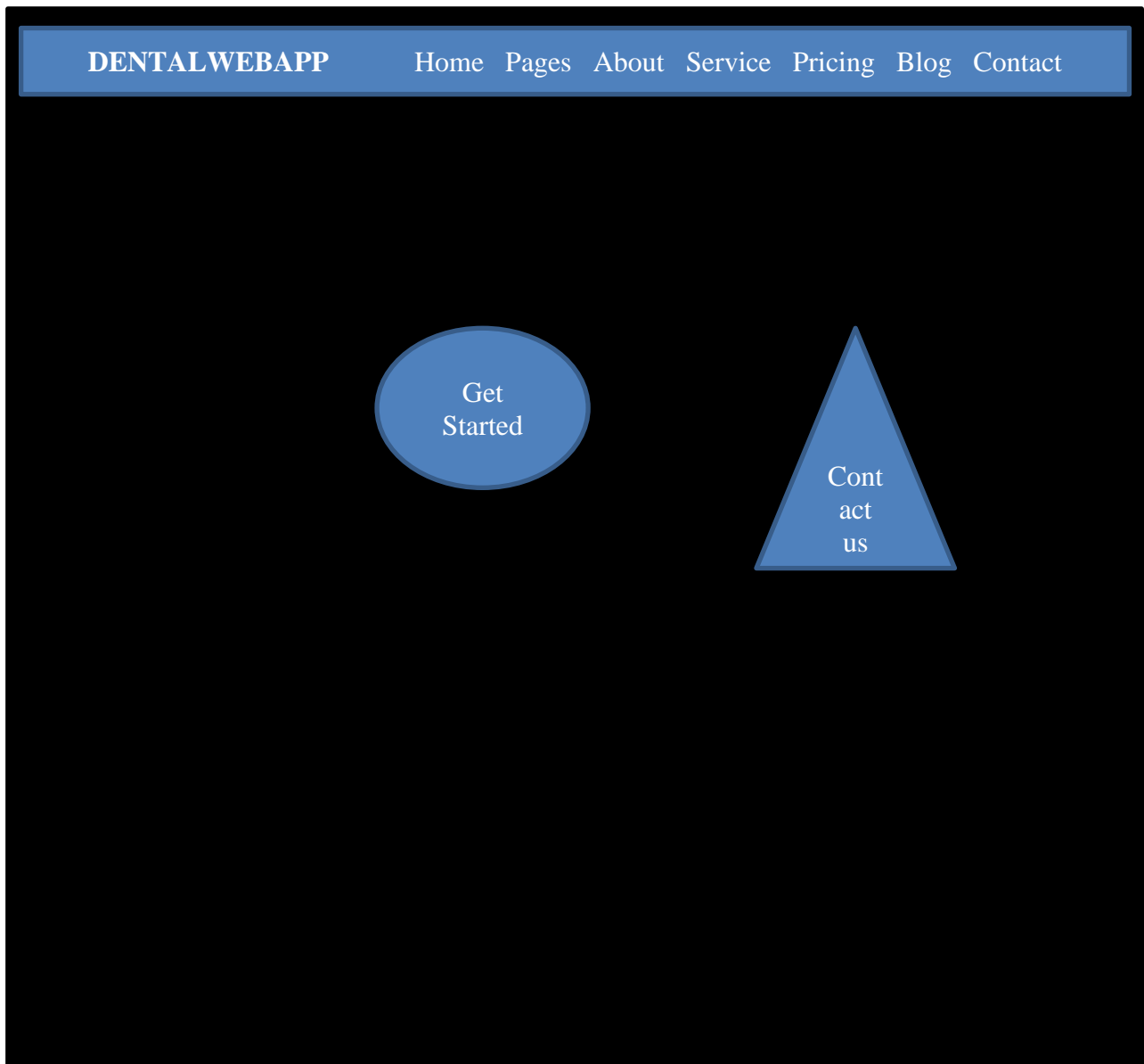
S.No.	Reference	Summary	Limitations
1.	Quality of health websites and their influence on perceived usefulness, trust and intention to use :an analysis from Thailand	Basically all problems related to automated suggestions given by health websites are listed in this research paper. Like if my website is suggesting patient to take a particular medicine then it can wrong in many cases. That's why I have Not included any auto suggestion rather I have used contact number for any enquiry where patients can talk to Doctor's assistant	This survey is not done worldwide or even in whole country so survey report is not valid for every part and every individual of our country.

<p>2.</p>	<p>Hospital websites as a road to transparency: Case study of transition countries.</p>	<p>The main goal of the paper is to detect to what extent hospitals in selected transition countries currently use Web pages in order to increase its transparency and communications with the public.</p> <p>In this research it is found that most hospital websites are displaying their name and logo on their website and all necessary things for their advertisement but not Access to the website in foreign languages (30%) only</p> <p>Website map available(9%) only</p> <p>Date of last website update(17% only which is very dangerous for emergency cases they must know whether beds are available or not and data must be updated if not it must be mentioned its last updated time)</p> <p>Hospital history is present at over two thirds of websites(79%, it must be 100% any new patients to a particular hospital can only know the quality of its hospital by its history and number of recovered</p>	<p>Most of researches have been made for public hospitals. This research is not 100% valid for private hospital's websites.</p>
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		<p>patients vs number of admitted patients record)</p> <p>Public relations office: work hours(7%)</p> <p>Details of how to pay prescription charges or fees is present at only 20,8% of Croatian web sites, 44% of Slovenian web sites and 4,6% of Bosnian web sites.</p> <p>List of departments or units that provide user services is highly present at 79,3% of Croatian hospitals, 92% of Slovenian hospitals and 90,9 Bosnian hospitals, while their location is present at only 20,8%, 4% and 9,1% of web sites</p> <p>Number of hospital beds is also not disclosed at many web sites and only 17% of Croatian and 13,6% of Bosnian hospitals disclosed it, while Slovenian hospitals did not disclose it at all.</p> <p>Waiting list is disclosed in 73,6% of Croatian, all of Slovenian and only 4,6% of Bosnian web sites</p> <p>None of the surveyed hospitals have shown any of the hospital quality indicators</p>	
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		listed nor has any of the surveyed web sites disclosed doctors' curricula	

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Project Design



Pages

Number of Beds Available

Click above to check beds availability

Choose Department

Institute of Child Care

Institute of Dental Science

Institute of Orthopedic & Spine

Institute of Neuro Science

Institute of Renal Sciences & Transplant

Institute of Oncology

Institute of Critical Care

Institute of Heart

Institute of Minimal Access Surgery

Select Doctors



Pankaj Bansal

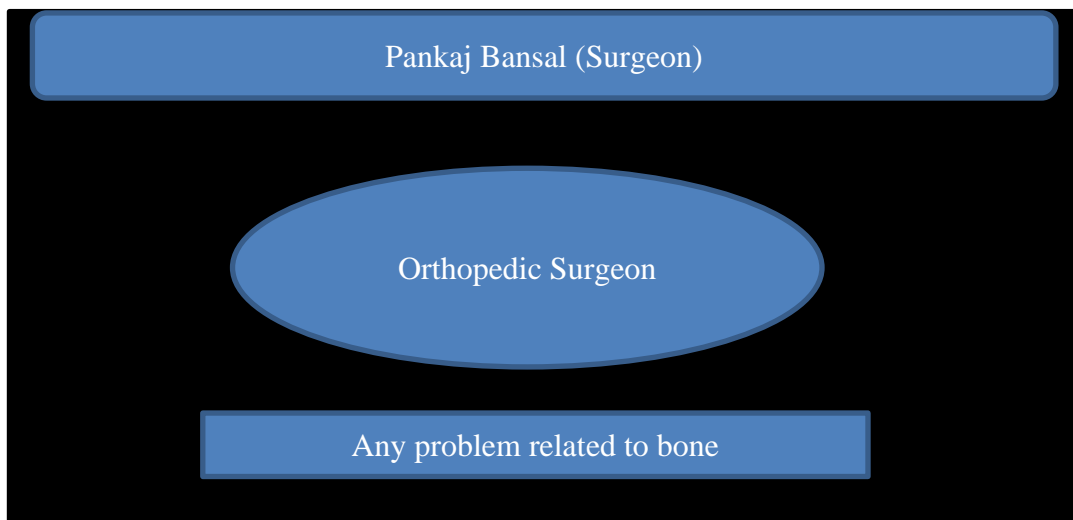
Anshu Gupta

R.K. Thapar

Sandeep Nagar

Institute of Critical Care

Total number of Beds:40
Available Beds: 07



Chapter3

Functionality/Working of Project

It is a web app which can be used by any hospital to connect with patients directly through website. It looks like now everything everyone is online but the fact is only big and famous hospitals have a proper website for their hospital and doctors of town and village or of private clinic still don't have website and patients suffer because of this .Doctors complain is that they don't know these technical things and excuse is it doesn't matter whoever knows about me come to me directly ,But let me mention some things

1.Delay in treatment of patients due to lack of availability of beds .

Soln : This can be solved by showing number of beds available directly on website.

2. In case of emergency patients move from one hospital to another because of lack of information about “which part of his body is damaged and where they can get doctor specialized in that part of body “ and most importantly if that doctor is available at that time or not because all hospitals don't have 24 hrs service of all parts of body at most they have some doctors to take care of heart attack

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emergency ,high blood pressure like these but many old people or patients suffer have consequences on their body which needs specialists like nerve diseases their hand stops working or any other part of their body when they are suffering from any other disease at same time or mostly in case of infection a normal surgeon can't treat such patients. Solution : I'll provide number of beds available as well as name of specialist of each part of body as well as status of availability of each doctor in hospital on website.

3. Contact number of doctors are not generally saved in anyone's mobile unless they get sick ,so they can get that any time from visiting my website.

Its hierarchy will be as follow :

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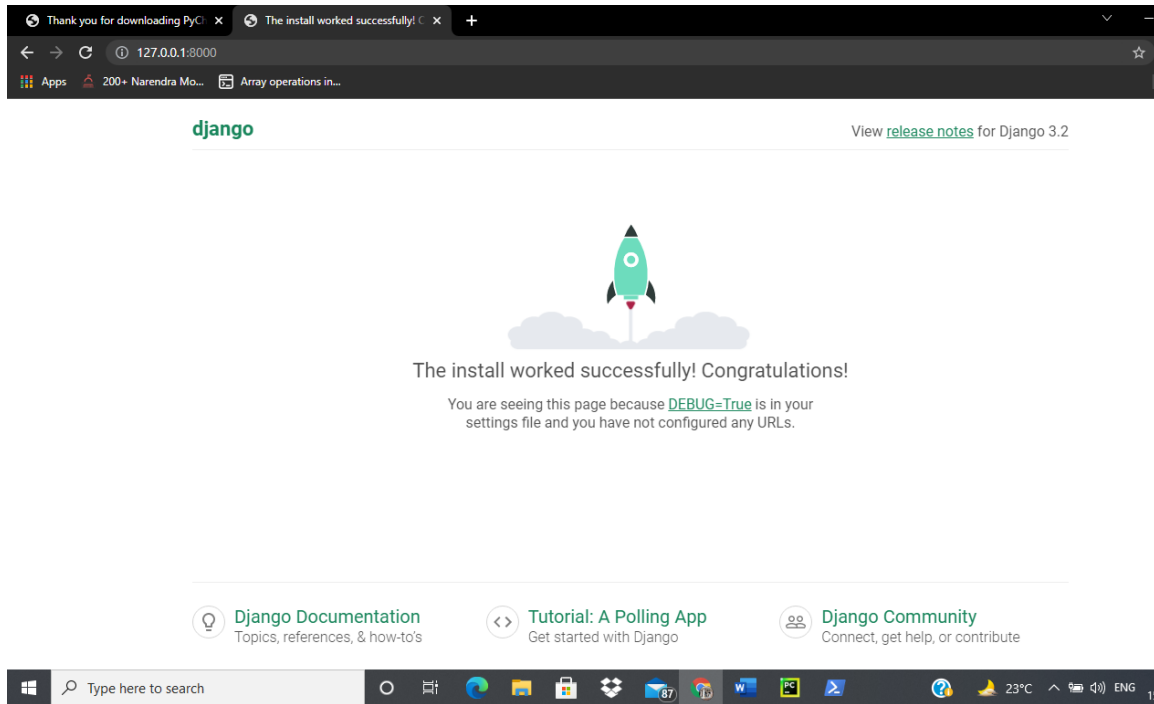
If yes he will tell him to book which appointment and check up and then patients can follow the right procedure.

4. Condition of admitted patients will be sent through mail to their parents or their family members.

Results and Discussion

First result was a url given by Django after running command `python manage.py runserver 128:....`. Something like this and going to that url it displayed , “The install worked successfully! Congratulations!, i.e my web app page .Second Hello World ! displayed on website after adding web page templates to my project and since I had written hello world to display in html code ,so that displayed means code was working fine.

Everything is working fine ,template is added in website also images and all required things.



PC File Edit View Navigate Code Refactor Run Tools VCS Window Help Dental-Web-App - home.html

Dental-Web-App | website

Project | manage.py | venv library root | Lib | Scripts | .gitignore | pyvenv.cfg | website | migrations | templates | 2ndurls.py | _init_.py | admin.py | apps.py | models.py | tests.py | untyped | views.py | main.nv

```
1 <h1>Hello World!</h1>
2
```

Python Packages

Search for more packages Add Package

Installed

wheel	0.36.2
setuptools	57.0.0
pip	21.1.2

PyPI repository

Run | TODO | Problems | Terminal | Python Packages | Python Console

1:1 CRLF UTF-8 4 spaces Python 3.10 (Dental-Web-App)

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help Dental-Web-App - main.py

Dental-Web-App | main.py

Project | Lib | Scripts | .gitignore | pyvenv.cfg | website | migrations | templates | 2ndurls.py | _init_.py | admin.py | apps.py | models.py | tests.py | untyped | views.py | main.py

```
8 # Use a breakpoint in the code line below to debug your script.
9 print(f'Hi, {name}') # Press Ctrl+F8 to toggle the breakpoint.
10
11
12 # Press the green button in the gutter to run the script.
13 if __name__ == '__main__':
14     print_hi('PyCharm')
15
16 # See PyCharm help at https://www.jetbrains.com/help/pycharm/
17
```

Python Packages

Search for more packages Add Package

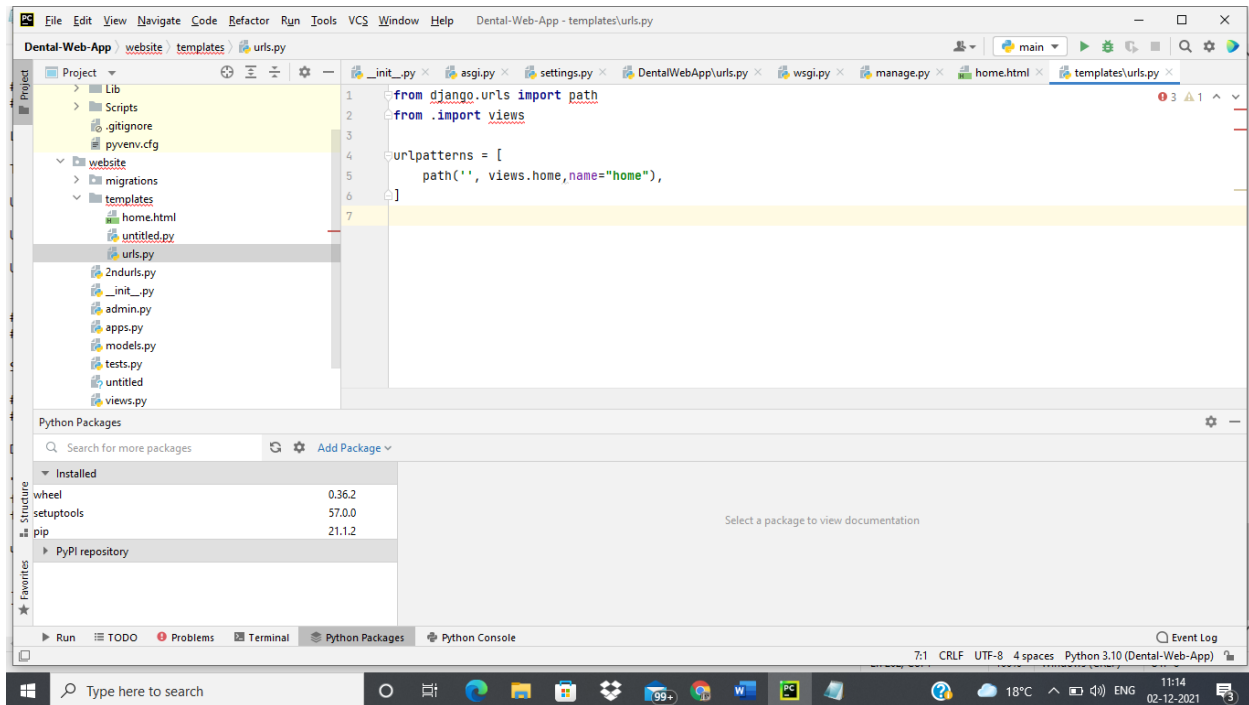
Installed

wheel	0.36.2
setuptools	57.0.0
pip	21.1.2

PyPI repository

Run | TODO | Problems | Terminal | Python Packages | Python Console

14:24 CRLF UTF-8 4 spaces Python 3.10 (Dental-Web-App)



Chapter 5 Conclusion and Future Scope

I have attached php templates in my Django python project ,since I was a beginner in development it took time to resolve errors but now I'm comfortable with using it and I'll finish this project very soon . I have added Images and Tweak CSS ,Contact pages in Django ,connecting email with Django, I have to add web pages ,build dental appointment form . After these my web app will be ready.

Once my web app is done it will be able to solve four problems that I have mentioned in problem formulation.

I'm firstly making this web app for dentists but once it is done ,I'll also add same functionality for doctors and surgeons also in same website .

References

1. Quality of health websites and their influence on perceived usefulness, trust and intention to use :an analysis from Thailand.
2. Hospital websites as a road to transparency:
Case study of transition countries
3. Code with harry - Youtube
4. Howto - Youtube