```
Any time when we execute/run python code then \{\% \%\} when showing to user \{\{\}\}
                                                                                                                        https://www.youtube.com/channel/UCASZ7zW_Egu0T4KG3YEdGfw/videos_all tutorial
https://data-flair.training/blogs/django-static-files-handling/https://simpleisbettertha
                                                                                                                        https://ultimatedjango.com/learn-django/lessons/install-setup-django-2/ django Linux
ncomplex.com
                                                                                                                                                  Ú
                                                                                                                                              user request
https://automationpanda.com/2017/09/14/django-projects-in-pycharm-community-edition/setup
                                                                                                                                              Project urls
\underline{\text{https://microservices documentation.readthedocs.io/en/latest/contributing/python.html}} \quad \underline{\text{microservices}}
https://simpleisbetterthancomplex.com/tutorial/2017/08/01/hoproject.html uploading user uploaded static file into S3 directly.
                                                                /01/how-to-setup-amazon-s3-in-a-django-
                                                                                                                                              App urls
https://docs.celeryproject.org/en/stable/django/first-steps-with-django.html Django with celery https://simpleisbetterthancomplex.com/tutorial/2017/08/20/how-to-use-celery-with-django.htm
                                                                                                                                             Wiews.py --> Model--> data show
https://django-bootstrapA.readthedocs.io/en/latest/index.html for Django-bootstrap tutorial https://django-extensions.readthedocs.io/en/latest/ for Django extensions http://ccbv.co.uk/ Django CRUD operation using class base view.
                                                                                                                                              through templete.
https://www.linuxhelp.com/create-web-application-using-django on Linux
https://www.linuxhelp.com/how-to-create-basic-web-applications-using-django-part-2
                                                                                                                                               views.py then its goes in side
https://simpleisbetterthancomplex.com/tutorial/2017/02/21/how-to-add-recaptcha-to-diango-site.html reCaptcha using https://realpython.com/location-based-app-with-geodjango-tutorial/ location-base web apps
                                                                                                                                              Home.py class then its render for
To integrate Django and reacts JS
https://scotch.io/tutorials/build-a-to-do-application-using-django-and-react nice tutorial
                                                                                                                                              We create template then redder it inside
You can use axios to get Django rest api data into react page.

In Django app: pip install django-cors-headers <a href="https://github.com/adamchainz/django-cors-headers">https://github.com/adamchainz/django-cors-headers</a> put setting in settings.py
                                                                                                                                              views.py then we can pass data as dictionary
In react app: npm install axios -- save https://www.npmjs.com/package/axios use http request to API and fetch data
                                                                                                                                              key back to template like home.html using
                                                                                                                                              \{\{\ abc\ \}\} double curly use while you want to show something
pip install django-cors-headers: A Django App that adds Cross-Origin Resource Sharing (CORS) headers to responses.
                                                                                                                                              {% %} single use while using if .for, any command certified
This allows in-browser requests to your Django application from other origins. Always put in first in installed app/ middleware
                                                                                             Create registration page
To show data to User Page (create .html file inside template folder then make noticeListViews class in views.py which inherit
   om (List View) then Create URL inside Project url then create APP URL
                                                                                            Search on google then turn on
  \Users\com>pip install django-registration-redux
install it then inside setting, py put 'registration' under INSTALL APP top of 'college' then put it inside setting, py
Then go terminal and migrate only. We do make makemigaraion only at the time of create or changse table (modules)
 ACCOUNT_ACTIVATION_DAYS=3
                                                                                             put it Inside project url go into views.py put decorator where you want to show only after login then
                                                                                             put this code inside base.html page
EMAIL_HOST= 'smtp.gmail.com'
EMAIL_PORT= 587
                                                                                              % if user.is_authenticated %}
EMAIL USE TLS= True
                                                                                                <a href="/accounts/logout">Logout</a>
                                                                                             2 {% else %}
EMAIL_HOST_USER= 'ec.smtp.test2@gmail.com'
EMAIL_HOST_PASSWORD= 'EXXXX'
                                                                                                <a href="/accounts/login">Login</a>
                                                                                             4 {% endif %}
                                                                                             4 LOGIN_REDIRECT_URL = "/" For direct login
 If "Less secure ann access" is off for your account
   If "Less secure app access" is turned off for your account, you can turn it back on. We rec
path('accounts/', include('registration.backends.default.urls'))
                                                                                                                                  show all list for super user (admin) and only show the list for particular user
                                                                                                                                        from django.utils.decorators import method_decorator
If you want to make any flow you have to work four place 1, view 12, Appur 13 form.html 4 base.html
   you want to run uit once only when application load the put this inside __init__.py then goto apps.py
  default_app_config = 'college.apps.CollegeConfig'
                                                                                                                                 Keep it inside views.py
Put ready() method this method register @receiver inside mysignal.py
                                                                                                              Two way pass data by form
GET: we can pass only text , its less secure
POST: we can pass tex, file, image all , more secure
We can only upload image or file through POST method
   def ready(self):
             import college.mysignal
If you want to use image in you app then you have to install Pillow the go to settings and put Media def get_queryset(self):
                                                                                                                         si = self.request.GET.get("si")
                                                                                                                         if si == None:
                                                                                                                        si = "
                                                     Then go to project url put this url
+ static(settings.MEDIA_URL, document_root=settings.MEDIA_ROOT)
If you uploding some file or image then this required In your form
                                                                                                               .filter(\mathbf{\ddot{Q}}(subject\_icontains = si) \mid \mathbf{\ddot{Q}}(msg\_iconta\ddot{i}ns = si))].order\_by("-id
      enctype="multipart/form-data" method="post">
                                                                                                              i <input value="{{ request.GET.si| }}" type="text" name="si" /> You can see value inside search fields
Make form good look use it then go setting and put crisppy_forms under install apps
pip install django-crispy-forms
                                                                                                                    Inside Templates for create and update we use form like modulesname_form.html
{% load crispy
                                                                                                                    If you want to pass something internally at the time of forms submit without user know then class QuestionCreate(CreateView):
 {{form | crispv}}
                                                                                                                          model = Question
                                                                                                                         model = Question
flelds = ["subject", "msg"]

der form valld(self, form):
    self.object = surg, save()
    self.object = surg, save()
    self.object save()
    return HttpResponseRedirect(self.get success_url())
Our project
                                                                                                          To working with image install pillow step 1, create models. Imagefields inside Model.py 2nd put Media root and media url then 3rd create Url of your main project like
Showing two table data
Showing two table data
@method_decordor(legin_required, name="dispatch")
class MyList(Templatevlew):
    template_name = "college/myList.html"
    def get_context_data(self, "*swargs):
        context = Templatevlew.get_context_data(self, "*swargs):
        context["notices"] = Notice.objects.order_by("-[d"][:3]
        context["questions"] = Question.objects.order_by("-[d"][:3]
        return_dontext;
                                                                                                          https://www.youtube.com/channel/UCTZRcDjjkVajGL6wd76UnGg/playlists_django_project_tutorial
                                                                                                              create function of forms and object of form inside Veiws.py then passed as dictionary
4 flows in django
view - class ka method or class banta tha
Url.py meai uska url banta tha
templateke under HTML file banta tha
base .html se link banta tha
 To get data input from frontend side using forms.
```

Also use font asome link and icon https://fontawesome.com/
1st Create forms,py we need to put all the model properties inside forms,py for that we have to import model name like (Employee) All the properties of model become the field of form page where you can input your data

```
e_register > 🏺 forms.py > 😋 EmployeeForm > 🔩 Meta
from django import forms
from .models import Employee
class EmployeeForm(forms.ModelForm):
     class Meta:
         model = Employee
         fields = '_all_'
```

3rd go inside Employee_forms.html and put {{ form}} inside block content Then you will be able to see all the field of your model into front page

```
{% extends "employee_register/base.html" %}
(% Load crispy_forms_tags %)
{% block content %}
<form action="" method="post" autocomplete="off")</pre>
    {% csrf_token %}
</form>
{% endblock content %}
```

Using crispy forms we can make form look good ip install djago-crispy-forms

```
'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages'
    'django.contrib.staticfiles',
    employee_register',
CRISPY_TEMPLATE_PACK bootstrap4
elf.fields['emp_code'].required = False
 data throough get and post and also showing data into se
```

You can update models fields in to forms as you like inside forms.py

```
update Fields Home
```

```
We can modify
{% Load crispy_forms_tags %}
                                                                                                  Like this with
                                                                                                  Bootstrap in forms.html
                                                                                                  We can put 2 field in
one single line
{% block content %}
<form action="" method="post" autocomplete="off">
       {{form.fullname|as_crispy_field}}
      {{form.mobile|as_crispy_field}}
<div class="row">
              <div class="col-md-4">

<
                    {{form.position|as_crispy_field}}
</form>
{% endblock content %}
      __init__(self, *args, **kwargs):
super(EmployeeForm,self).__init__(*args, **kwargs)
self.fields['position'].empty_label = "Select"
```

Create button in foms.html Displaying data from database to the main frontend pages

Register model in admin.py and do migrations

create views inside views.py also link template html file inside it Create url of views created inside agent urlands.

4. Create ut of views created insuce apps, juris
5. Then goto project url.py and put the apps url link inside it
6. Then goto template folder and create. html file and link with base.html with it.
We can put models name using forloop inside {{ Item }} inside block content. Now you ent. Now you can see in page.

importing data in database using forms front page

- istead create model inside models.py we create form into foms.py all other are sampe process create forms.py file then inside form create modelname+form class like (EmployeeForm) then put your model name in meta class.

 2. create a formview inside views.py like Def employee_form and also link .html into form views and

Tender it to html and pass the form object as dictionary

create template.html file like employee_form.html and put form object inside using

{{form|crispy}} under {% block content %} then we can see all the form models fields into service page

Simpleisbetterthancomplex.com
Django REST with react by valentinog.com for API Web service

Mention the differences between Django, Pyramid and Flask.

- Flask is a "micro framework" primarily build for a small application with simpler requirements. In flask, you have to use external libraries. Flask is ready to use.
 Pyramid is built for larger applications. It provides flexibility and lets the developer use the right tools for their project. The developer can choose the database, URL structure, templating style and more. Pyramid is heavy configurable.
- Django can also be used for larger applications just like Pyramid. It includes an ORM.

Explain the use of session in Django framework?

Ans: Django provides a session that lets you store and retrieve data on a per-site-visitor basis. Django abstracts the process of sending and receiving cookies, by placing a session ID cookie on the client si de, and storing all the related data on the server side.



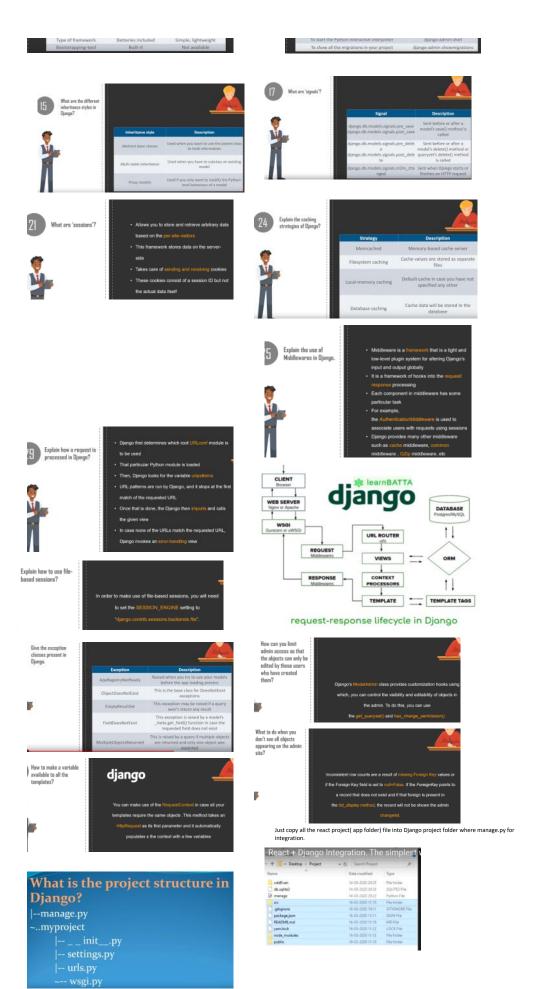
ORM : in model object we put data inside then its store in database when you read data you will get model object not a SQL that called ORM

returnNotice.objects.filter(branch=self.request.u branch wala column match with login user branch

Loginuser ka profile hai branch mai profile -user hoga request mai request hoga -self main Self ko vita request user ko vitra profile profile ko vitra branch hunchh







To integrate Diango and reacts JS

settings.py ~-- wsgi.py

How request work: http://example.com/cute-pupples. The browser does not care which part of the backend will handle the request, it just wants answers. (NOW.) The requests arrives at the serve, is passed to the web server (Nginx for example), and the web server hands the request over to the app server (Django handled by Gunicorn). The web server simply does what it's configured to do. Nothing magical here.

Anyway. Django gets the request, processes it, maybe looks up some data in a

there is many way to send the email SMTP , other email services provider like sencris other console backend

Security Topics

- Secret Keys
- Pickling
- SQL Injection Cross-Site Request Forgery Cross-Site Scripting
- Session Hijacking
- Social Engineering Authentication

- Logs

Webserver used in programing java - tomcat web server

net - IIS web server php - apache web serve

pythons & Django - Django development web server (comes with built in)

HTTP protocol also called as stateless protocol

Stateless: mean it cannot remember the value given in the web page.it doesn't maintain history

Infantaministory
If you want to keep and see data after submitted then we need to do state
management
Client side if you want to remember data in html5 then use web storage is there using

this we can store web page value in client side browser.

In JavaScript: cookies are there to store web data in client side browser.

To integrate Django and reacts JS

https://scotch.io/tutorials/build-a-to-do-application-using-django-and-react nice tutorial

pip install django-cors-headers:

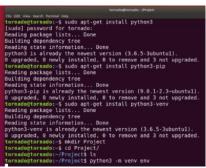
A Django App that adds Cross-Origin Resource Sharing (CORS) headers to responses. This allows inbrowser requests to your Django application from other origins.

```
First need to create Jason package
   SinguffirstProject noe init
Tis utility will walk you through creating a package json file.
It only covers the most common items, and tries to guess samable det
   Use 'nom install <pkg>' afterwards to install a package and save it as a dependency in the package.json file.
     can fill the all data according to your choice like package name version etc
```

Then co back terminal th

That code will install all dependency for react

diangoFirstProject npm install —save react react



```
, 0 newly installed, 0 to remove and 3 not upgr
rmado:-5 mkdir Project
rmado:-5 for Projecty
rmado:-/Projects 1s
rmado:-/Projects python3 -m venv env
rmado:-/Projects 1s
       adoglornado:-/Projects cd env
adoglornado:-/Projects cd env
adoglornado:-/Projects cd env
adoglornado:-/Projects composition c
               ado@tornado:~/Project$ which python3
/bin/python3
nado@tornado:~/Project$ source env/bin/activate
v) tornado@tornado:~/Project$
```

(env) tornado@tornado:~/Project\$ pip install django



low to Install and Setup a React App on Ubuntu 18.04.1

scurl -sL https://deb.nodesource.com/setup_12.x | sudo -E bash ssudo apt-get install -y nodejs

React Js Installatio in linux

tep 1: INSTALL NODEJS

```
Step 2 : INSTALL NPM
        ssudo npm install npm@latest -g
        tep 3 : INSTALL REACT
Ubantu access on windows 10
```

oot@DESKTOP-QP2589T:/mnt/c/Users# cd 'Aarya Amam oot@DESKTOP-QP2589T:/mnt/c/Users/Aarya Amar# ls

ESKTOP-QRDQ79V:-\$ nano ~/.bashro

admin rwx group rx public rx

Pycharm installation

Packages need to be installed before installing PyCharm

1) sudo apt install build-essential

2) sudo apt-getminstall python3-distutils

OK 64-Bit Server VM warning: Option UseConcher > 9.0 and will likely be removed in a future ce

rne Lunc view Jealen terminal rieu ubuntu@ubuntu123:-\$ sudo apt install build-essential [sudo] password for ubuntu:

To create shortcut directory

```
ornado:-/Project$ cd helloworld;
ornado:-/Project/helloworld$ ls
radoţtornado: \PFiajes;/malcuserid$ cd helloworld

d sanage, yo

radoţtornado: \PFiajes(t/helloworld)$ cd helloworld$ is

py settings, py urls, py wsgi.py

radoţtornado: \PFiajes(t/helloworld)$ helloworld$ cd

radoţtornado: \PFiajes(t/helloworld)$ is
                    ornado:
.ege.py
.ornado:-/Project/helloworld$
```

```
t/sampleproject# vim settings.py
t/sampleproject# cd ..
ject# cd myapp
ject/myapp# ls
nodels.py tests.py views.py
oject/nyepp# vim
```

```
To create shortcut directory
```

Working on model

```
model. Object. All() = return all the model of the database.
Model .object. Filter() = return filter the items model of the database
Model .object. save() = insert or update new model into database
Model .object. Filter() = to get single model from database ( like product model)
```

And store them into variable to display like

<u>variablename</u> = model. Object. All() = return all the model of the database.

Now you can create template to display this model into html page for user like Inside template folder create index html

Instead sowing views index function use index.html by using render () method and put inside templete index.html

```
index(request):
products = Product.objects.all()
return render(request, 'index.html')
```

And we can pass the model data through dictionary.

```
index(request):
products = Product.objects.all()
return render(request, lindex.html),
{'products': products}}
```

```
• todos (app folder)
  - migrations (includes files related to migrations)
   • static
     models.py (python class for each database table)
urls.py (app. specific url mapping)
views.py (view fns. to handle http request)
    setting.py (project config. file)
urls.py (url mapping for the project)
```

Using celery, you can "assign a task" to routine.



Celery need database to store a task queue and perform one by one so we have rabitMQ message queue database & we can use redis as broker database server But rabitma is good for backed(broker database) processing than redis

But raturing a good to backed processing than teams Periodic task: use celerybeat tools (like supervior of worker, its keep your app and worker alive) (celery-demo) [-/orsiects/sino/channel/co-hardik.ps pip install django-celery-beat

In settings.py inder INSTALLED_APP

Python manage.py inspectdb: show database table need to install 2 model like need to install 2 model like pip install celery it helps distributed task pip install django-celery its help for integration Got to your project settings.py THEN Put djcelery package into INSTALLED_APPS

```
CURD OPERATIONS inside views.py
                 p(request):
request.method ** "POST":
form * EmployeeForm(request.POST)
if form.is_valid():
    try:
    form.save()
    return redirect()
except:
         else:
    form = EmployeeForm()
return render(request, "index.html", ('form':form))
  def show(request);
  employees = Employee.objects.all()
  return render(request, "show.html", ('employees': employees))
 def edit(request, id):
    employee = Employee.objects.qet(id=id)
    return    render(request, "edit.html", ('employee' : employee))
def update(request, id):
    employee = Employee.objects.get(id=id)
    form = EmployeeForm(request.FOST, instance= employee)
    if form.is_valid():
form.save()
return redirect('/show')
return render(request, "edit.html",('employee': employee))
def delete(request, id):
employee = EmployeeForm.objects.get(id=id)
employee.delete()
return redirect(@/show")
We can override the models to delete file from file systems (if not delete file even use delete post
  There's another set of model methods that encapsulate a bunch of database behavior that 
customize in particular you'll other work to change the way save() and delicte() work.
  A classic use-case for everyding the built in methods is if you want comelling to higger who save an obset. For exempts large save 3 for documentation of the comments is according
    from disease, do import models
```

```
delete(self, *args, ***wargs):
self.pdf.delete()
self.cover.delete()
super().delete(-args, **kwargs)
```

om <<u>https://</u> earch form

To store stattic file in to AWS S3 we need to install 2 things

- Boto3
 Django-storages

django-storages is an open-source library to manage storage backends like Amazon S3, Dropbox,

built-in policy AmazonS3FullAccess then get User, Access key ID and the Secret access

key. Then Inside settings no GOL TO YOUR PROJECT SETTINGS.PY THEM
Put djcelery package into INSTALLED_APPS

BROKER_URL: path for django ORM database table where store task

```
Here running log level info using celeryd
```

```
[/tmp/example] $ ./manage.py celeryd -l info
```

Its pull up works process . Take task of the que and execute them
Let see process of create a job : using decorator @shared_task

```
from ordery import shared_link
from demapposabile import blight
(hisroijink
def mid n. 1) i
return 1 + 1
Beharnt tenk
def milits, vist
return a 1 y
det soorjoekers).
(bluevi_lask
def smat_didgets());
return widget.sh(sets.court())
@dnami_mak
def namme widget(widget SK, nami):
u - bidget.objects.get(id-midget_id)
u.com - nami
```

celery -A tasks worker --loglevel=info

Schedule types

- Timedelta Schedules
- Crontab Schedules
- Solar Schedules

```
Timedelta schedules
```

```
Crontab Schedules
```



```
Flower: is a tool to monitor celery worker
Add-ons
```

```
We can pass signatures with task object
Signatures or Partials
    task_s = my_task_s(username="username")
    task_si = my_task_si(username="username", age=33)
```

We can pass immutable signature so no extra parameter allow

```
<a href="https://simpleisbetterthancomplex.com/tutorial/2017/08/01/how-to-setup-amazon-s3-in-a-django-project.html">https://simpleisbetterthancomplex.com/tutorial/2017/08/01/how-to-setup-amazon-s3-in-a-django-project.html</a>
Go to amazon s3, setup and add user setup AIM policy and group give full permission like
```

built-in policy AmazonS3FullAccess then get User, Access key ID and the Secret access

key. Then

Inside settings .py
Put storage in INSTALLED_APP[]

```
'storages',
```

we will add the following to our /settings.py file:

settings.py

```
AG. ACCES, RY _ 10 + 'ACCESTED WAS ASSESSED AS A SECRET ACCEST RY - 'Gen-phresofogoado) waday [payacteciniles' as _ SCENER, ROSE, RY - 'Gen-phresofogoado) waday [payacteciniles' as _ SCENER, ROSE, RY _ 100 + 'ACCESTED WAS ASSESSED AS _ SCENER, ROSE _ 100 ACCEST AND ASSESSED AS _ SCENER, ROSE _ 100 ACCEST ASSESSED AS _ SCENER, ROSE _ 100 ACCESTED AS _ SCENER, RO
                                                               ATIC_URL = "https://%s/%s/" % (AMS_53_CUSTOM_DOMAIN, AMS_LOCATION)
```

Then in home.pv

Then run this command

python manage.py **collectstatic** more info <u>https://testdriven.io/blog/storing-django-static-and-media-files-on-amazon-s3/</u>

Deploying django project on AWS EC2

```
Deploying in aws EC2
                        1.setup ec2 instance
2 install python
2. Install gyrlon

3. Install gyrlon

4. Install dispute

4. Install dispute

5. Install dispute

6. Install dispute

7. Install gigs, (pyrlon don't serve static file by default but riging is help to serve itself go site-

7. Install gigs, (pyrlon don't serve static file by default but riging is help to serve itself go site-

7. Install gigs, (pyrlon don't serve static file locations)

8. Install y supervisor

7. Install gigs, (pyrlon don't serve static file by default but riging is help to serve itself go site-

7. Install gigs, (pyrlon don't serve static file by default but riging is help to serve itself go site-

8. Install y supervisor

7. Install gigs, (pyrlon don't serve static file by default but riging is help to serve itself go site-

7. Install gigs, (pyrlon displayed)

7. Install gigs, (pyrlon displayed)

8. Install pyrlon displayed so the serve supervisor is been you don't extent us begarded and also need to configure New to red from gigs. Put gigs getting it is keep

8. Install gigs, (pyrlon displayed)

8. Install gigs, (pyrlon displayed)

9. Install pyrlon displayed, (pyrlon displayed)

10. Install pyrlon displayed, (pyrlon displayed)

11. Install pyrlon displayed, (pyrlon displayed)

12. Install pyrlon displayed, (pyrlon displayed)

13. Install pyrlon displayed, (pyrlon displayed)

14. Install pyrlon displayed, (pyrlon displayed)

15. Install pyrlon displayed, (pyrlon displayed)

16. Install pyrlon displayed, (pyrlon displayed)

16. Install pyrlon displayed, (pyrlon displayed)

17. Install pyrlon displayed, (pyrlon displayed)

18. Install pyrlon displayed, (pyrlon displayed)

18. Install pyrlon displayed, (p
```

```
from project.tasks import (
my_task,
success_handler,
error_handler,
general_handler
Callbacks
                                         my_task.apply_async(
link=success_handler.si(),
link_error=error_handler.s()
                                          )
task_s = my_task.s()
task_s.link(general_handler.s())
task_s.link_error(general_handler.s())
 Its saying run another task if first task is finished
   Primitives - Chain
```

from celery import chain from project.tasks import (save_object, send_notification def save_and_notify(username, data): """Save user data and notify. :param str username: Username. :param dict data: Data to save. return chain(save_object.s(username, data), send_notification.s()





Handling Errors

- Retry
- Use an error Callback
 - link_erroron_error



Handling Results from celery.result import AsyncResult from project.celery_app import app

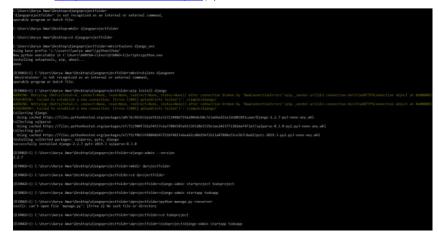
Other way Handling Results

Delete all the task from queue. Using puge commands cliosoft\$ celery -A celery_demo purge

cliosoft\$ pip install flower

cliosoft\$ celery -A celery_demo flower

Django project setup https://github.com/sumitkumar1503/schoolmanagement project



(DJANGO~1) C:\Users\Aarya Amar\Desktop\djangoprojectfolder\dprojectfolder\todoproject>python manage.py runserver

Write click on Django app folder and make templates folder . Make it inside app folder $% \left(1\right) =\left(1\right) \left(1\right) \left$

```
lass PassengerInline(admin.StackedInline):
   model = Passenger.flights.through
   extra = 1
class FlightAdmin(admin.ModelAdmin):
   inlines = [PassengerInline]
class PassengerAdmin(admin.ModelAdmin):
   filter_horizontal = ("flights",)
admin.site.register(Airport)
admin.site.register(Flight, )
admin.site.register(Passenger, PassengerAdmin)
```

For authentication : pip install django-allauth Or install djang-registration-redux Then we will get automatic login page

mport settings inside models.py for link an order with user:

user = models.ForeignKey(settings.AUTH_USER MODEL

To get free bootstarp template goto https://mdbootstrap.com/ And you can also go to Mdbootstarp/jQuery /alert for message alart To display message install django-message framworkhttps://docs.diangoproject.com/

To display incessage install qualiformiessage from the state of the framworkhttps://docs.djangoproject.com/en/3.0/ref/contrib/messa For modify login page goto in github then search this and clone or Download template folder and copy file to old template folder then Edit login.html also use crispy forms

pennersr / django-allauth

To add and remove item from cart top icon on top nav-bar then eate cart_templete_tags.py inside templagetag

aying data from database to the main frontend pages MV

- Register model in admin.py and do migrations

 - y also link template .html file inside it
- Then goto project url.py and put the apps url link inside it
- ile and link with base.html with it We can put models name using forloop Now you can see in

mporting data in database using forms front page

- porting data in database using norms from page stead create model inside models.py we create form into foms.py all other are sampe process create forms.py file then inside form create modelname+form class like (EmployeeForm) then put vour model name in meta class.
- create a formview inside views.py like Def employee form and also link .html into form views and
- render it to .html and pass the form object as dictionary

 3. create template .html file like employee_form.html and put form object inside using {{ form [crispy }}} under {% block content %} then we can see all the form models fields into service page



For country selection we need to install packages : pip install django-countries

pip install nepali-phone-number

https://pyi.org/project/python-doteny/ for environmental variable to managing key don't forget to keep.env file inside gitignore file, don't publish.env file on server https://www.youtube.com/watch?v=XbHmiKvreLM&list=PLInxDOHtieHS8VzuMCfQD4uJ9yne1mE6

&index=41

```
Django and react app creations : <a href="https://www.youtube.com/watch?">https://www.youtube.com/watch?</a>
```

Django and react app Creations: INIDS//www.yusuucc.om/yusuucc.om

Then go to backend folder and install all or use requirment.txt file

Matthews-MacBook-Pro:djreact matthew\$ cd backend/
Matthews-MacBook-Pro:backend matthew\$ is
Matthews-MacBook-Pro:backend matthew\$ virtualenv env
Using base prefix '/Library/Frameworks/Prthon.framework/Version:
New python executable in /Users/matthew/OneDrive/tutorials/djreaction/pythond.6
in/pythond.6
which was a secutable in /Users/matthew/OneDrive/tutorials/djreaction/pythond.6
which was a secutable in /Users/matthew/OneDrive/tutorials/djreaction/pythond.6
which was a secutable in /Users/matthew/OneDrive/tutorials/djreaction/python

An Approximation of the Company of t

Now install rest api

Now install rest api (ann) Matthew-MedDook-Pro:backend matthew\$ pip install djangorestframework Collecting djangorestframework Then create project (env) Matthews-MedDook-Pro:backend matthew\$ django-admin startproject djrasct

https://automationpanda.com/2018/02/08/django-projects-in-visual-studio-

ode/ to theck how we work in vs code with django https://automationpanda.com/2017/09/14/django-projects-in-pycharm-community-edition/to check how we work in pycharm with django Go and install all the setting from that automation panda link create vscode folder inside backend folder and inside create settings.json file then copy all

Tolder inside dackerin folder and inside create settings, son the then copy all the setting file.

Then create django app create model did all the migration and all run server.

Go to Django restframwork and put all the setting in url.py and settings.py w.django-rest-framework.org/#installation

To use default api for our frontend applications

To use derault apin to difforment applications of oto your project app and create folder api inside that create serializer.py and __init__,py now create serializer of creeated model using genericview, APIView like createapiview. displayapiview

Now deactivate your backend and move to frontend and create react app

ojieski ene jan sekenu and move to frontend and create rea (env) Matthews-MacBook-Pro:backend matthew\$ deactivate Matthews-MacBook-Pro:backend matthew\$ 1s env src env src
Matthews-MacBook-Pro:backend matthew\$ cd ..
Matthews-MacBook-Pro:direact matthew\$ ls
backend frontend
Matthews-MacBook-Pro:direact matthew\$ cd frontend/
Matthews-MacBook-Pro:frontend matthew\$ cd
Matthews-MacBook-Pro:frontend matthew\$ create-react-app ||
Matthews-MacBook-Pro:frontend matthew\$ create-react-app ||

After create rest api and react app we will display rest api data into reaact

app Install axios package (to fetch data from django api)

^CMatthews-MacBook-Pro:gui matthew\$ npm install axios --save First go to frontend and inside react app folder remove the logo of react Goto react app and Is now install bootstrap for styling npm install react-bootstrap bootstrap https://react-bootstrap.github.io/getting-started/introduction/ and put all the setting

Django project setup in gitbash

Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution

Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (m:

```
For login and logout registration step
```

Go to command prompt and type following cor pip install django-registration-redux Go to settings.py inside your app and update INSTALLED_APP INSTALLED_APPS = ['django.contrib.admin',
'django.contrib.auth',
'django.contrib.contenttypes', 'django.contrib.sessions', 'django.contrib.messages' In settings.py add following code at the end: ACCOUNT_ACTIVATION_DAYS=3 EMAIL_HOST= 'smtp.gmail.com'

Inside setting.py put it in last

ACCOUNT ACTIVATION DAYS=3

Inside project url.py (path('accounts/',include('registration.backends.default.urls')),

Migrate from django.utils.decorators import method_decorator from django.contrib.auth.decorators import login required
@method_decorator(login_required, name="dispatch")
class NoticeDetailView(DetailView):
model = Notice unstate = NODICE

a. For example, you might need to show login link only off user is n logged in, and logout only if he/she has logged in, and logout only if he/she has logged in off user is n to to be she that and update the code: <IDOCTYPE html>

INSIDE BASE.HTML

<h1>Menu Etc</h1> (% if user is authenticated %) Logout {% else %} Login {% endif %} {% block content %} {% endblock %}

Go to settings.py add the following line at the end of the file: LOGIN_REDIRECT_URL = "/"

34) Run as Django and enjoy

Create signal receiver

```
1-from django.dispatch.dispatcher import receiver
2 from django.db.models.signals import post_save
3 from django.contrib.auth.models import User
4 from college.models import Profile
6 @receiver(post_save, sender=User)
7 def save_profile(sender, instance, created, **kw)
          if created:
```

Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (maste 5 python -m yeny hospitalyeny

Aarya Amar@DESKTOP-QP2589T MINGW64 / e/hospitalsolution (m \$ ls hospitalvenv/ ram.txt

Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (master) \$ source hospitalvenv/scripts/activate

комъркануему) Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master) \$ pip install django

pytz (trom ajango) ding <u>https://liks.pythonhosted.org/packages/4f/a4/879454d49688e2fad93e</u>. la580b783c745fd2ec2a3adf87b0808d/pytz-2020.1-py2.py3-none-any.whl (510kB

Collecting salparse=0.2.2 (from django)
Downloading https://files.pythonhosted.ory/packages/85/ee/6e821932f413a5c4676b
ee/5936e313e4ic226331fse027866e1doi0588/salparse=0.3.1-ty/2.py3-none-any.whil (47.6)

(8)
Collecting asgiref[~]=3.2 (from django)
Downloading https://files.pythonhosted.org/packages/d5/eb/64725b25f991010307fd
18a9e0c1f0e6dff2f03622fc4bcbcdb2244f60d6/asgiref-3.2.10-py3-none-any.whl

\$ python manage.py runserver
Watching for file changes with StatReloader
[03/Aug/2020 23:30:50] "GET / HTTP/1.1" 200 16351

us/mug_accus_sus_0] (sel | H11Y1.1" 200 15951 03/Aug/202023:3050 ("GET/static/admin/fsoftnst.css HTTP/1.1" 200 423 03/Aug/202023:30:50] "GET /static/admin/fonts/Roboto-Bold-webfont.waff HTTP/1. "200 86184 03/Aug/202023:30:50] "GET/static/admin/fonts/Roboto-Regular-webfont.woff HTTP

03/Aug/2020 23:30:50] "GET /static/admin/fonts/Roboto-Light-webfont.woff HTTP/1

on.ico 30:50] "GET /favicon.ico HTTP/1.1" 404 1983

DJANGO STRUCTURE



se.html should be inside template folder not inside the app name folder octor _list or doctor _detail.html kind of file should in inside app name folder



Go Project setting click on setting sign then click on add and put in existing

CITALICATION			
M Semigr			
Q.			
Appearance & Schavler Keymap			
> Efficer			
Rugins			
> Version Control			
· Project hospitabelation			
Pythos interpreter			
Project Structure			
> Build, Execution, Deployer			
> Languages & Fransoworks			
> Tents			

Goto +sign then click	on pytho	n then add the configuration.	
S Automocontonion			*
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*			Seed Service

After all set up we can push to github

≠aold files (ven v)\$ git add .

**Commit files

(ven w/s g it commit-m "configured De settings"

https://ultimatedjango.com/learn-django/lessons/configure-the-database/?

After close gitbash start project again

Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master) \$ source/hospitalvenv/scripts/activate bash: source/hospitalvenv/scripts/activate: No such file or directory

Aarya Amar@DESKTOP-QP2589T MINGW64 / e/hospitalsolution (master) \$ source hospitalvenv/scripts/activate

(hospitalvenv)
Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master)
\$ dir

db.sqlite3 hospitalvenv manage.py patient patientengagement

```
4 from college.models import Profile
6 @receiver(post_save, sender=User)
7 def save_profile(sender, instance, created, **kw)
       if created:
Profile.objects.create(user=instance)
```

If you want run code only one time after server start then goto init.py

default_app_config = 'college.apps.CollegeConfig'

Then go to apps.py and if you right any code inside ready() method it will run only once

from django.apps import AppConfig

class CollegeConfig(AppConfig): name = 'college def ready(self): import college.mysignal IMAGE KO

SETTINGS SHOULD BE PROJECT SETTINGS not from Diango .conf and static comes from Diango while

To show google maps on your given location then type in every address word use + href="http://maps.google.com/maps?q=Indrapuri=Bropal=Indrapur

If you want to show page and serach data in table then use it and put all link before </head> (use script tag in all link) inside base.html so it work for all the page

Copy Excel	CSV PDF			Search: 28	I
Name	A Position	Office	Age	Start date	Salary
Airi Safou	Accountant	Tokyo	33	2006/11/26	\$162,700
Brenden Wagner	Software Engineer	San Francisco	28	2011/06/07	\$206,860
Jennifer Chang	Regional Director	Singspore	20	2010/11/14	\$357,650
ike this	non stort> ttps://code.jquery.co	m/jquery-2.3.1.js*> <th></th> <th></th> <th></th>			

https://www.youcuec.com/wassa.t/
Need to put <ink in CSS code
https://css/josery.datatoles.nia.css
https://css/josery.datatoles.nia.css
https://css/josery.datatoles.nia.css

```
Your branch is up to date with 'origin/master'
                   renamed: petient/_inlt__py > patient/_inlt__py renamed: petient/admin.py > patient/admin.py new file: patient/admin.py new file: patient/aps.py renamed: petient/migrations/_inlt__py > patient/migrations/_inlt__py = pa
                   y
renamed: petient/models.py -> patient/models.py
renamed: petient/tests.py -> patient/tests.py
renamed: petient/views.py -> patient/views.py
deleted: petient/apps.py
 Changes not staged for commit:
(use "git add ..." to update what will be committed)
(use "git checkout – ..." to discard changes in working directory)
                   modified: .idea/misc.xml
modified: patientengagement/_pycache_/settings.cpython-37.pyc
modified: patientengagement/settings.py
   Untracked files:
(use "git add ..." to include in what will be committed)
                   patient/__pycache__/
patient/migrations/__pycache__/
   (hospitalvenv)
Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (master)
$ git init
Reinitialized existing Git repository in E:/hospitalsolution/.git/
   Reinitianized existing on repository in 27nospiralsolution (git) (hospitalwent)
Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master)
$ git status
On branch master
   Your branch is up to date with 'origin/master
                 renamed: petient/_init__py -> patient/_init__py renamed: petient/admin.py -> patient/admin.py -> petient/admin.py -> petient/admin.py -> petient/apps.py renamed: petient/migrations/_init__py -> patient/migrations/_init_
                   y renamed: petient/models.py -> patient/models.py renamed: petient/tests.py -> patient/tests.py renamed: petient/views.py -> patient/views.py deleted: petient/apps.py
 Changes not staged for commit:
(use "git add ..." to update what will be committed)
(use "git checkout – ..." to discard changes in working directory)
                   modified: .idea/misc.xml
modified: patientengagement/_pycache_/settings.cpython-37.pyc
modified: patientengagement/settings.py
   Untracked files:
(use "git add ..." to include in what will be committed)
                   patient/__pycache__/
patient/migrations/__pycache__/
 Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (master) 5 git push -u origin master 
Everything up-10-date 
Branch 'master' set up to track remote branch 'master' from 'origin'. 
(hospitalveny)
   (hospitalvemy)
Aarya Amar@PESKTOP-QP2589T MINGW64/e/hospitalsolution (master)
5 git status
On branch master
Your branch is up to date with 'origin/master'.
   nothing to commit, working tree clean (hospitalvenv)
   Aarya Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (mast Now you can check all the changes will appear in git hub repository
Aury Amme@DEXTOP-OPS89T MINGWb4/e/ricopnamo-
mater pull origin master 
remote: Enumerating objects: 10 (cf. 77), done-
remote: Compressing objects: 100% (3/3), done-
remote: Compressing objects: 100% (3/3), done-
remote: Total deleta 2), reused of (deleta 0), pask-reused O
Unpacking objects: 100% (4/4), done-
     unpacking objects: 100% (4/4), one.
From https://github.com/thakuramar/hospitalsolution
* branch master -> FETCH_HEAD
a196ced..4684c11 master -> origin/master
Updating a196ced..4684c11
Fast-froward
   Updating a196ced..4684c11
Fast-forward
patient/views.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
     After pull project now change in your pycharm then push it to git hub
 $ git status
On branch master
Your branch is up to date with 'origin/master'
Changes not staged for commit:

(use "git add ..." to update what will be committed)

(use "git checkout – ..." to discard changes in working directory)
 no changes added to commit (use "git add" and/or "git commit -a") (hospitalveny)
Aarja Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master)
S git add
(Rospitalveny)
Aarja Amar@DESKTOP-QP2589T MINGW64/e/hospitalsolution (master)
S git commit -m"check*
Insister 4/73/373 (med. 17/373) (med. 17/3733) (med. 17/3733) (med. 17/3733) (med. 17/3733) (med. 17/3733) (med. 1
       Aarya Amar@DESKTOP-QP2589T MINGW64 /e/hospitalsolution (master)
   nothing to commit, working tree clean
```