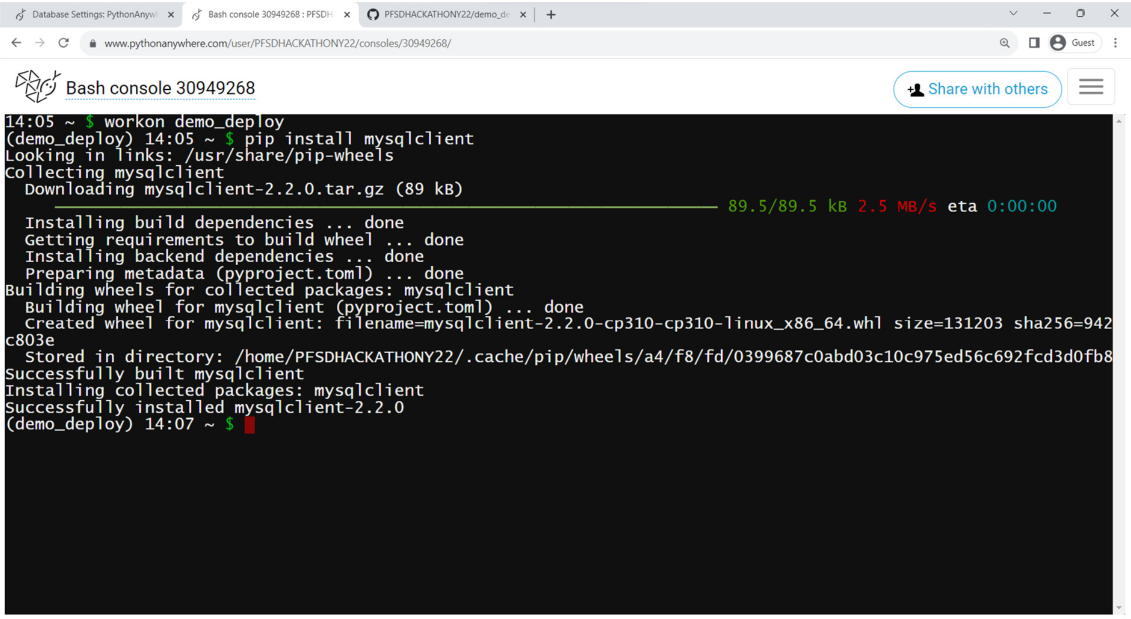
CREATING DATABASE AND INTEGRATING WITH DJANGO PROJECT IN PYTHONANYWHERE USING MY SQL

STEP – 1:

OPEN PYTHONANYWHERE BASH CONSOLE

Activate Virtualenv “workon <Your_virtualenvName>”

TYPE “pip install mysqlclient” after activating virtualenv

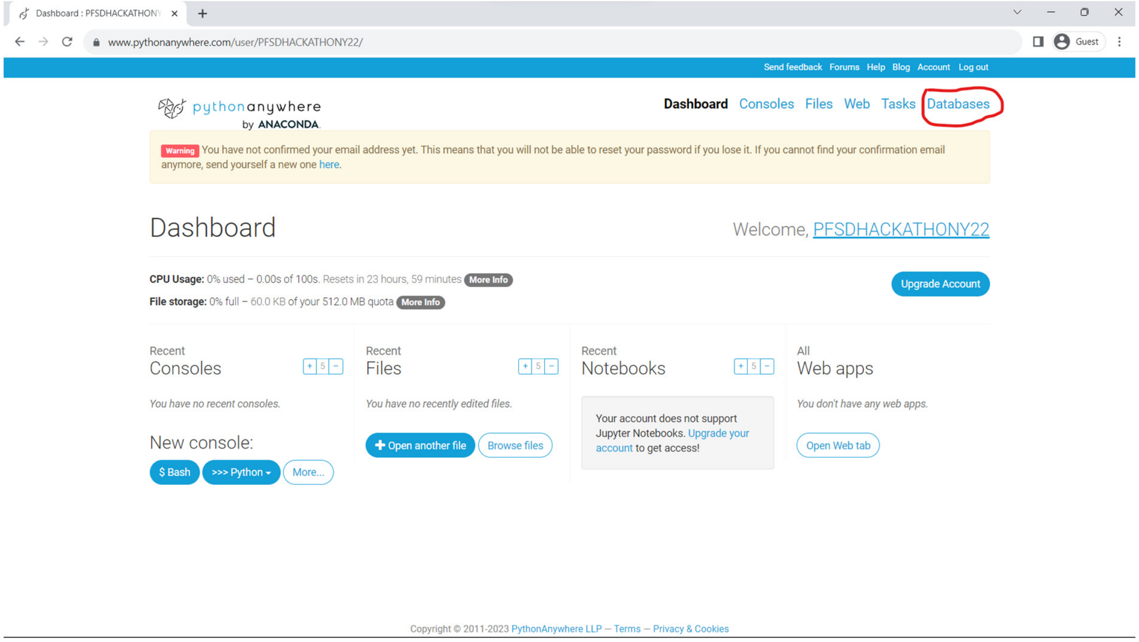


Database Settings: PythonAnyw
Bash console 30949268 : PFSDH
PFSDHACKATHONY22/demo_de
www.pythonanywhere.com/user/PFSDHACKATHONY22/consoles/30949268/
Guest
Bash console 30949268
Share with others

```
14:05 ~ $ workon demo_deploy
(demo_deploy) 14:05 ~ $ pip install mysqlclient
Looking in links: /usr/share/pip-wheels
Collecting mysqlclient
  Downloading mysqlclient-2.2.0.tar.gz (89 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 89.5/89.5 kB 2.5 MB/s eta 0:00:00
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Installing backend dependencies ... done
  Preparing metadata (pyproject.toml) ... done
Building wheels for collected packages: mysqlclient
  Building wheel for mysqlclient (pyproject.toml) ... done
  Created wheel for mysqlclient: filename=mysqlclient-2.2.0-cp310-cp310-linux_x86_64.whl size=131203 sha256=942
c803e
  Stored in directory: /home/PFSDHACKATHONY22/.cache/pip/wheels/a4/f8/fd/0399687c0abd03c10c975ed56c692fcd3d0fb8
Successfully built mysqlclient
Installing collected packages: mysqlclient
Successfully installed mysqlclient-2.2.0
(demo_deploy) 14:07 ~ $
```

STEP – 2 :

CLICK ON DATABASES IN PYTHONANYWHERE DASHBOARD



Warning You have not confirmed your email address yet. This means that you will not be able to reset your password if you lose it. If you cannot find your confirmation email anymore, send yourself a new one here.

Dashboard

Welcome, PFSDHACKATHONY22

CPU Usage: 0% used – 0.00s of 100s. Resets in 23 hours, 59 minutes More Info

File storage: 0% full – 60.0 KB of your 512.0 MB quota More Info

Recent Consoles

You have no recent consoles.

New console:

Recent Files

You have no recently edited files.

Recent Notebooks

Your account does not support Jupyter Notebooks. Upgrade your account to get access!

All Web apps

You don't have any web apps.

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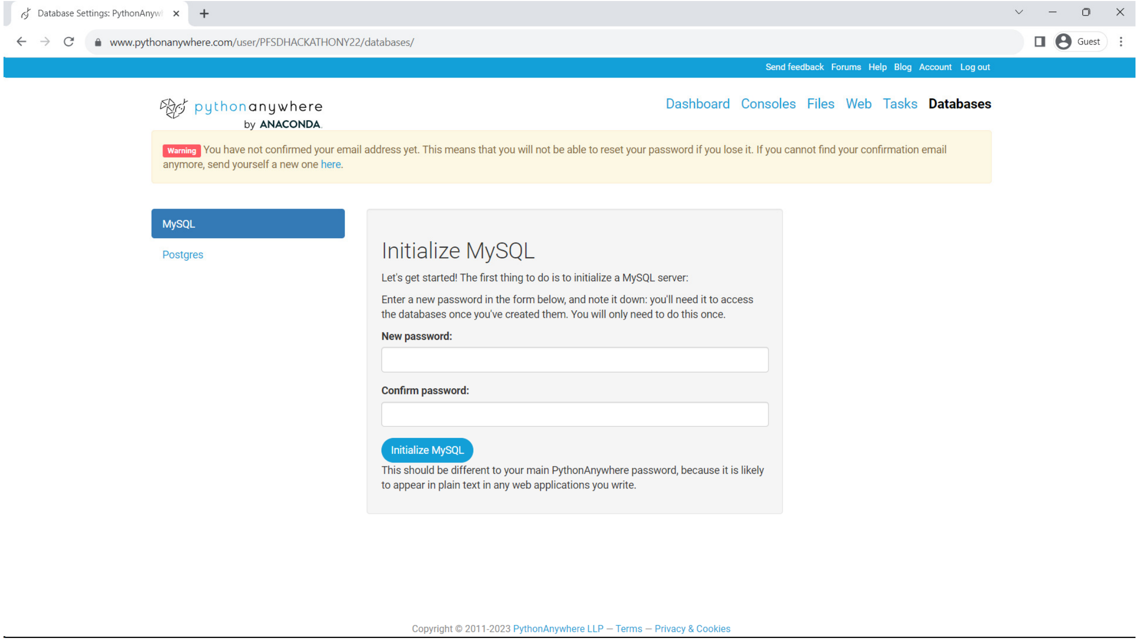
STEP – 3:

IT AUTOMATICALLY SELECTS MYSQL DATABASE

ENTER THE DESIRED PASSWORD FOR YOUR DATABASE



Warning You have not confirmed your email address yet. This means that you will not be able to reset your password if you lose it. If you cannot find your confirmation email anymore, send yourself a new one here.

Initialize MySQL

Let's get started! The first thing to do is to initialize a MySQL server:

Enter a new password in the form below, and note it down: you'll need it to access the databases once you've created them. You will only need to do this once.

New password:

Confirm password:

This should be different to your main PythonAnywhere password, because it is likely to appear in plain text in any web applications you write.

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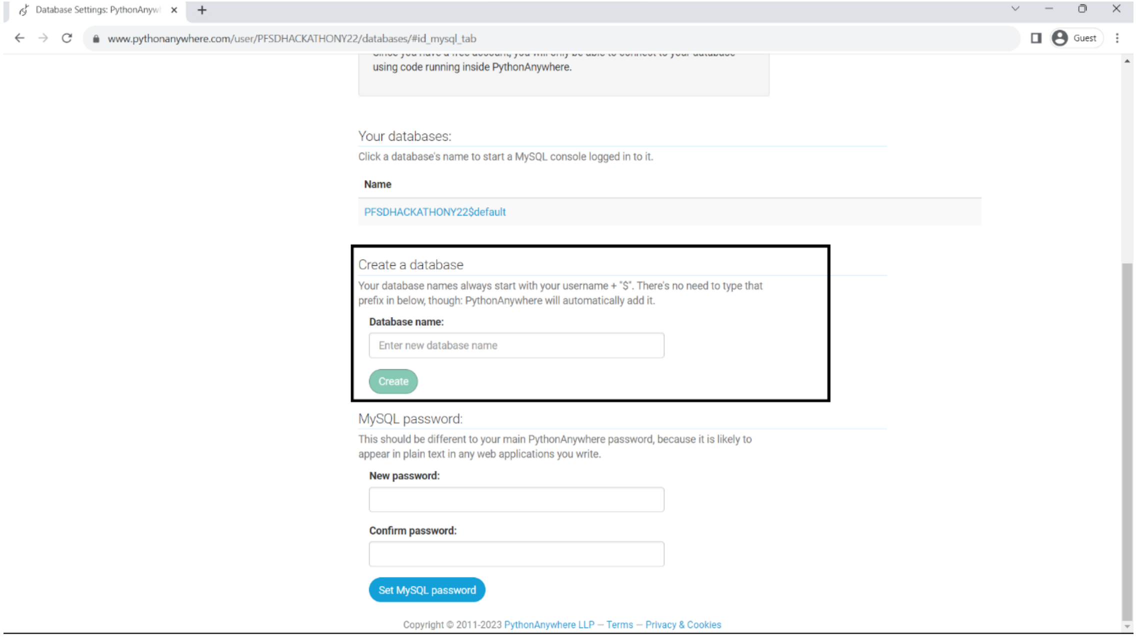
STEP – 4:

NOW CREATE DATABASE


Database Settings: PythonAnyw
www.pythonanywhere.com/user/PFSDHACKATHONY22/databases/#id_mysql_tab
Guest

using code running inside PythonAnywhere.

Your databases:

Click a database's name to start a MySQL console logged in to it.

Name
PFSDHACKATHONY22$default

Create a database

Your database names always start with your username + "$". There's no need to type that prefix in below, though: PythonAnywhere will automatically add it.

Database name:

Enter new database name

MySQL password:

This should be different to your main PythonAnywhere password, because it is likely to appear in plain text in any web applications you write.

New password:

Confirm password:

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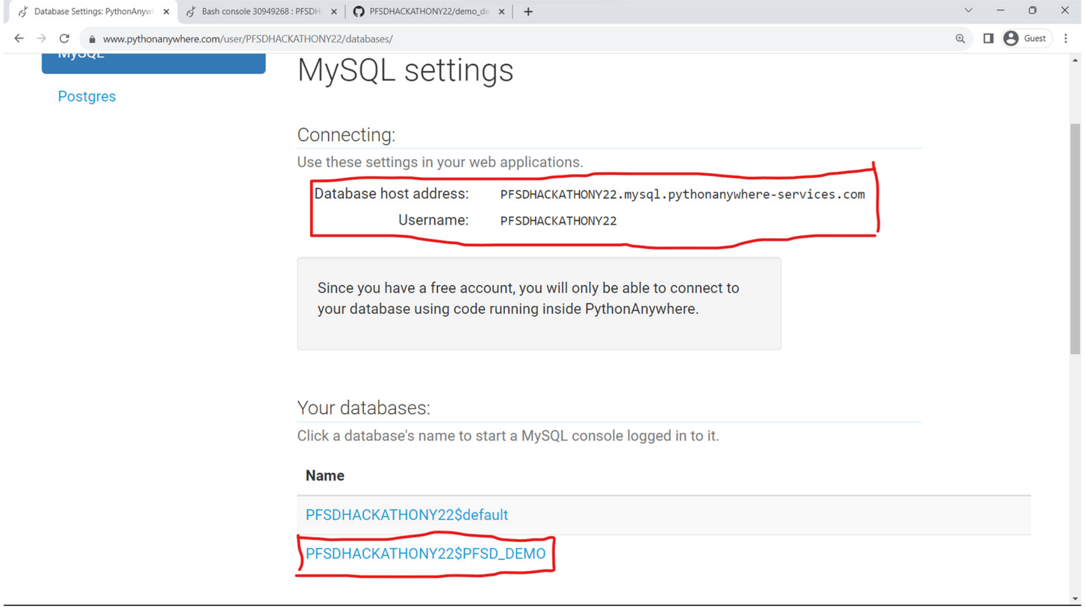
STEP – 5:

INTEGRATING THE DATABASE WITH DJANGO PROJECT


Database Settings: PythonAnyw
Bash console 30949268 : PFSDH
PFSDHACKATHONY22/demo_d
www.pythonanywhere.com/user/PFSDHACKATHONY22/databases/
Guest
MySQL
Postgres

MySQL settings

Connecting:

Use these settings in your web applications.

Database host address:	PFSDHACKATHONY22.mysql.pythonanywhere-services.com
Username:	PFSDHACKATHONY22

Since you have a free account, you will only be able to connect to your database using code running inside PythonAnywhere.

Your databases:

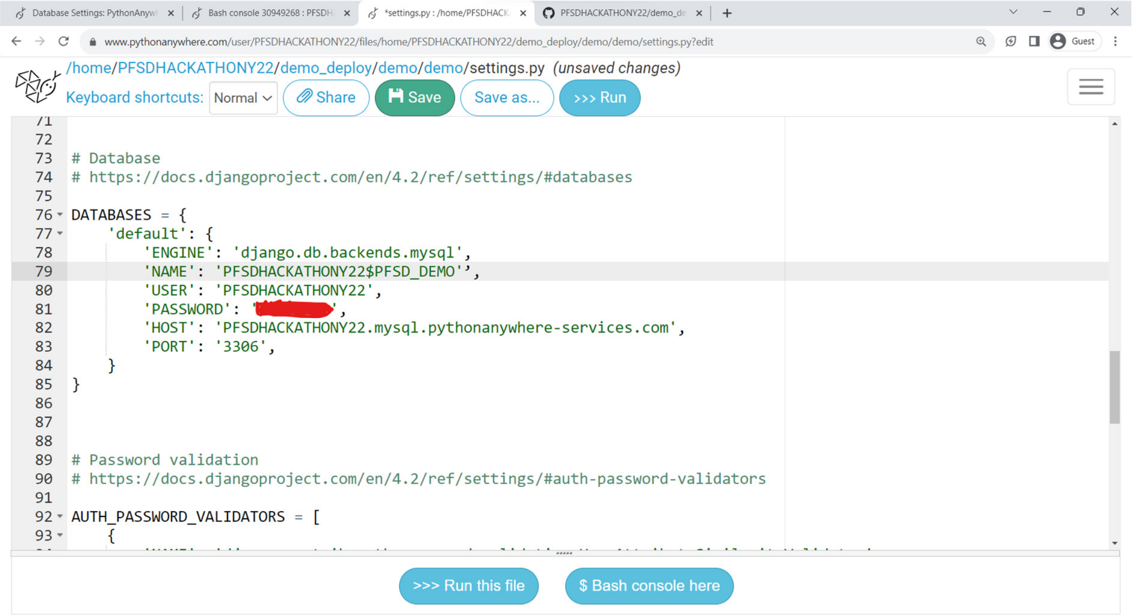
Click a database's name to start a MySQL console logged in to it.

Name
PFSDHACKATHONY22$default
PFSDHACKATHONY22$PFSD_DEMO

Use the below code snippet in project settings.py and change to your database configuration and save the settings.py :

(Use files option to edit settings.py)

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': '<DATABASE_NAME>’,
        'USER': '<USERNAME>',
        'PASSWORD': '<PASSWORDGIVENFORDATABASE>',
        'HOST': '<PYTHONANYWHERE_DATABASE_HOSTADDRESS>',
        'PORT': '3306',
    }
}
```



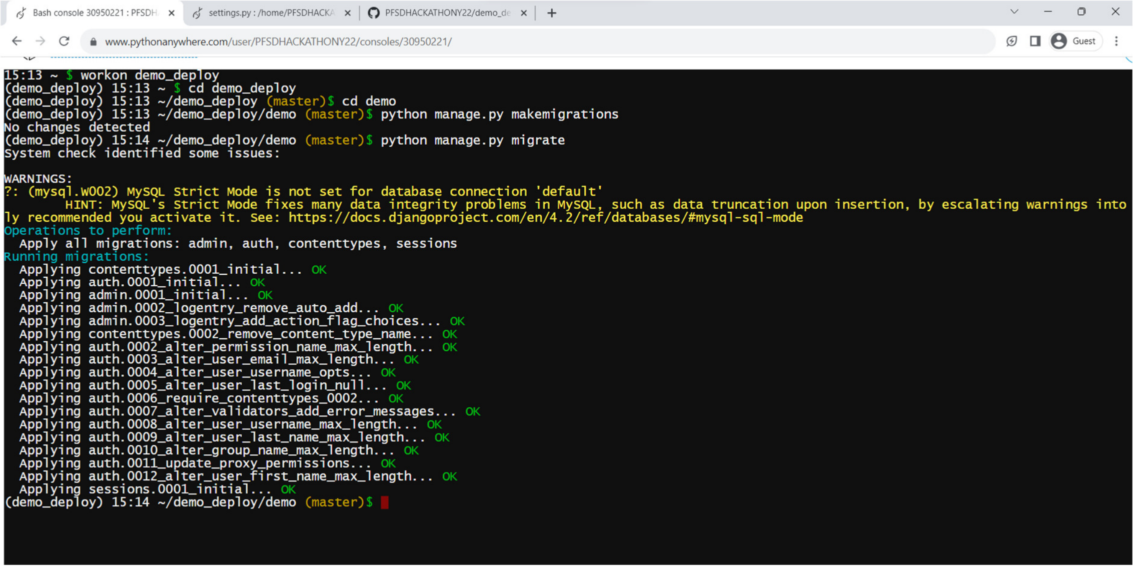
www.pythonanywhere.com/user/PFSDHACKATHONY22/files/home/PFSDHACKATHONY22/demo_deploy/demo/demo/settings.py?edit

/home/PFSDHACKATHONY22/demo_deploy/demo/demo/settings.py *(unsaved changes)*

```

# Database
# https://docs.djangoproject.com/en/4.2/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'PFSDHACKATHONY22$PFSD_DEMO'’,
        'USER': 'PFSDHACKATHONY22',
        'PASSWORD': '[redacted]',
        'HOST': 'PFSDHACKATHONY22.mysql.pythonanywhere-services.com',
        'PORT': '3306',
    }
}



# Password validation
# https://docs.djangoproject.com/en/4.2/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
```

STEP – 6 : Now make migrations to the databases

(NOTE : REMOVE PREVIOUS MIGRATIONS IN EACH APP EXCEPT __init__.py. You can remove files in PythonAnywhere by going to files option)


Bash console 30950221 : PFSDH
settings.py : /home/PFSDHACKA
PFSDHACKATHONY22/demo_de
www.pythonanywhere.com/user/PFSDHACKATHONY22/consoles/30950221/
Guest

```
15:13 ~ $ workon demo_deploy
(demo_deploy) 15:13 ~ $ cd demo_deploy
(demo_deploy) 15:13 ~/demo_deploy (master)$ cd demo
(demo_deploy) 15:13 ~/demo_deploy/demo (master)$ python manage.py makemigrations
No changes detected
(demo_deploy) 15:14 ~/demo_deploy/demo (master)$ python manage.py migrate
System check identified some issues:

WARNINGS:
?: (mysql.W002) MySQL Strict Mode is not set for database connection 'default'
        HINT: MySQL's Strict Mode fixes many data integrity problems in MySQL, such as data truncation upon insertion, by escalating warnings into
ly recommended you activate it. See: https://docs.djangoproject.com/en/4.2/ref/databases/#mysql-sql-mode
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
(demo_deploy) 15:14 ~/demo_deploy/demo (master)$
```

Now run : “python manage.py makemigrations”

“python manage.py migrate”