

Welcome All...!

Pythonic projects & its Implementation

Full-stack applications - Beginner series

CRUD + GUI & Web applications – Python3 +
Django + SQLite3

Ms. Ramya Nagabhushan and Team

WOMEN WHO
CODE

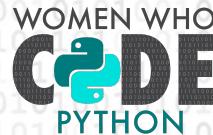




- Please make sure your chat is set to "**All panelists and attendees**".
- Few housekeeping rules:
 - ◆ Everyone will be muted throughout the webinar!
 - ◆ Please share your thoughts on the chat and/or ask questions in the Q&A.
 - ◆ Our team is here. Please reach out to us with any technical questions!

Our Mission

Inspiring women to
excel in technology
careers.



Our Vision

A world where diverse women are better represented as engineers and tech leaders



Our Target

Engineers with two or more years of experience looking for support and resources to strengthen their influence and levelup in their careers.



290,000

Members

70 networks in 20 countries

122+ countries

14K+ events

\$1025 daily Conference tickets

\$2M Scholarships

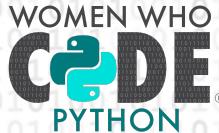
Access to [jobs](#) + [resources](#)

Infinite connections



OUR MOVEMENT

As the world changes, we can be a connecting force that creates a sense of belonging while the world is being asked to isolate.



Code of Conduct

WWCode is an inclusive community, dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, creed, political affiliation, or preferred programming language(s).

Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. We do not tolerate harassment of members in any form. Our [Code of Conduct](#) applies to all WWCode events and online communities.

Read the full version and access our incident report form at

womenwhocode.com/codeofconduct

Upcoming Events <https://www.womenwhocode.com/python/events>

SAT
12
MAR

Development to Deployment of a Web Application with Python: Part 2 *Featured*

📍 Online | Python | 11:00 PM - 12:30 AM IST (UTC+0530)

Organized By: WWCode Python

[Register](#)

WED
16
MAR

Machine Learning Study Group Webinar Series *Featured, Recurring*

📍 Online | Data Science | 8:30 PM - 10:00 PM IST (UTC+0530)

Organized By: WWCode Data Science | WWCode Python

[Register](#)

THU
17
MAR

CFP Series: Writing your Talk Proposal *Featured*

📍 Online | Other | 9:30 PM - 10:30 PM IST (UTC+0530)

Organized By: WWCode Blockchain | WWCode Cloud | WWCode Data Science | WWCode Front End
| WWCode Mobile | WWCode Python | WWCode Career Nav

[Register](#)

SAT
19
MAR

Introduction to Coding Environments for Python *Featured, Recurring*

📍 Online | Python | 8:30 AM IST (UTC+0530)

Organized By: WWCode Python

[Register](#)

SAT
19
MAR

Bytes n' Brew I - Celebrating Women in Tech *Featured*

📍 Online | Data Science | 12:30 PM - 1:30 PM IST (UTC+0530)

Organized By: WWCode Blockchain | WWCode Data Science | WWCode Python

[Register](#)

Follow us

Register for Events and Join our community -

womenwhocode.com/python

Email - python@womenwhocode.com

Social Media: 



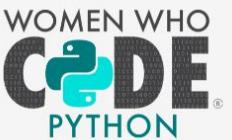
@WWCodePython



Women Who Code Python



@WWCodePython



Development of a Web Application in Python

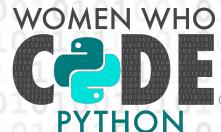
Go from development to deployment
of an intermediate web app in Python

Development and Deployment

Part-1

 Jan 22, 2022 @ 12:30 pm ET

With Ramya Nagabhushan
Web Developer | Python Mentor



Full-stack applications - Beginner series

Project > Pythonic Quiz and CRUD applications

Tools > Python3 + Django + SQLite3



Resource Links

- The slides available here on GitHub:

https://github.com/rnedesigns/WWC_Python_Events

- URL of today's project:

→ <https://mcquiz-pydj.herokuapp.com/>

Agenda for the series



- Uses-cases of Python
- Tools | Libraries | Database
- Application's **What** and **How**
- Walk-through of the code and deployment
- Q&A

Use-cases of Python



- Full-stack web applications
- GUI/Desktop applications
- Game development
- Software Testing
- Web/Data scraping
- Data Analysis
- ML/DL applications
- NLP applications
- Network programming



Applications for the series



Projects and Coding demo on:

- CRUD application
- Quiz web application

Python3 > Database & Frameworks



It's General-purpose,
High-level &
Object-oriented language.
Garbage collected &
Interpreted language.
Initially designed by Guido van Rossum.

django



Python3 > Deployment Platforms



OSS platforms:



HEROKU



netlify



Firebase

Python MCQuiz Portal

https://mcquiz-pydj.herokuapp.com

67% Search =

MCQuiz | QUIZ

These are the Multi-Choice Quizzes at MCQuiz

Click on any of these category - have FUN with LEARN

1. Click on TITLE of any of the tile below, of your choice to play QUIZ.
2. Choose all of your options and click SUBMIT at the end to get the correct answers.

General Knowledge



This is one of the category to play the QUIZ based on the general knowledge. Click on any of the category among these and have fun with learn!

Geography



As the name says, these tile contains the quizzes related to the Geography, feel free to participate. Learn or enhance or revise your knowledge about Earth and Geography!

Python3



It's an Object Oriented Programming language and it's used to build multi-purpose software applications. It can be found in full-stack web apps, gaming apps, software testing the applications, networking apps and in Data Science related applications. It's compatible with many relational & NoSQL databases. It's an open-source and cross-platform compatible coding language. This tile is pertaining to quizzes based on Python3 language and its syntaxes. There can be multi-answers for a question!

Food



When we think of FOOD, does it makes you feel hungry? Hmm... Let's know some new info about multi-cuisines and other interesting facts by playing this quiz!

STEM



In this tile you will find quizzes on Science, Technology, Engineering and Maths topics... click on the STEM to get started

Sports



For Sports lovers and who enjoys playing any sport or wants to know about some facts about Football or Rugby etc. And about female and male players and about world cups or nobel prizes achievements...

[Back to top](#)

Python MCQuiz Portal

https://mcquiz-pydj.herokuapp.com

QUIZ

MCQuiz Portal

These are the Multi-Choice Quizes and category-wise as seen below . . .
Click on any of these category - have FUN with LEARN

General Knowledge



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[Back to top](#)

All Contents Are Copyright © Protected 2021-2022 | QUIZ Application built with Python3, Django, jQuery & JavaScript | Ramya N

Multi-Choice Quizzes | GK X +

https://mcquiz-pydj.herokuapp.com/qna.html

67% Search

Multi-Choice Quizzes on General Knowledge

Learn | Fun | Recap . . .

[HOME](#)

[NEXT](#)

1. Octopus has how many hearts?

- 3
- 1
- 5
- 8

2. Which is the capital city of Australia?

- Perth
- Sydney
- Brisbane
- Canberra

3. What is the smallest planet in our solar system?

- Mars
- Mercury
- Uranus
- Jupiter

4. What is the tallest mountain in the world?

- Mount Abu
- Mount Rainier
- Mount Everest
- Swiss Alps

Multi-Choice Quizzes | Python X +

https://mcquiz-pydj.herokuapp.com/py_quiz.html 67% ⭐ Search

Multi-Choice Quizzes on Python

Learn | Fun | Recap ...

HOME NEXT PREV

1. What does this statement do 'dict(zip(var_1, var_2))' - Assume var_1 and var_2 are lists

- Returns dictionary for var_1 and var_2
- Converts two lists into a dictionary
- Throws error
- Only merges two variables

2. What is the correct output of below statements: tp = ("Python3");
print(type(tp))

- bool
- list
- str
- tuple

3. Which of the following is correct?

- Comments are for programmers for better understanding of the program.
- Python interpreter ignores comment
- Multi-line comments in Python using triple quotes
- All of them

4. Python was created by:

- James Gosling
- Guido van Rossum
- Steve Jobs
- Google

5. What is a correct syntax to output 'Hello World' in Python?

- print("Hello World")
- echo "Hello World"
- echo("Hello World")

CRUD application - Students Registry

Django Web Framework

[Add Student](#)

Student ID	Student Name	Student Email	Student Address	Student Contact	Student Gender	Edit/Update	Delete
4	Kate	kate@outlook.com	342, Willson Street, UK	4467583	F	Edit	Delete
5	Williams	williams@outlook.com	23, Eastham, UK	4490280	M	Edit	Delete
6	Rathod	rathod@gmail.com	45, City Central, New Delhi, India	916736	M	Edit	Delete
7	John	john@gmail.com	111, Gallions Reach, UK	4413910	M	Edit	Delete
8	Maina	maina@outlook.com	56, High Street, Bombay, India	919939	F	Edit	Delete



https://students-crud-django.herokuapp.com/create



Add New Student Record

Student Name

Enter Your Name

Email

Enter Your Email

Address

Enter Your Address

Phone/Mobile Contact

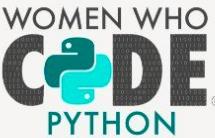
Enter Your Contact Number

Gender

Female | Male

Insert Record

Home Page



Development to Deployment of a Web Application in Python

Part 2: Walkthrough how the data is stored and
the database's integration with the user interface

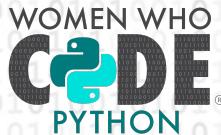


Mar 12, 2022 @ 12:30 pm ET

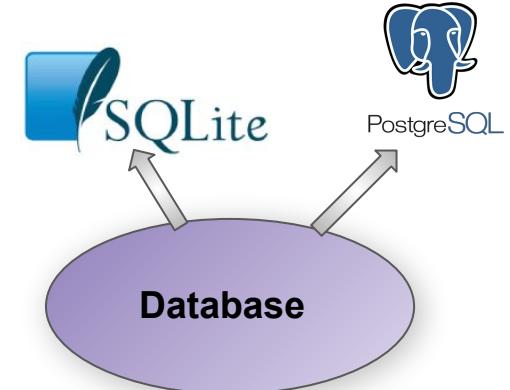
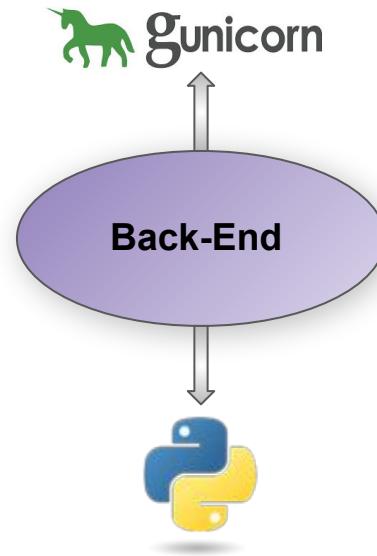
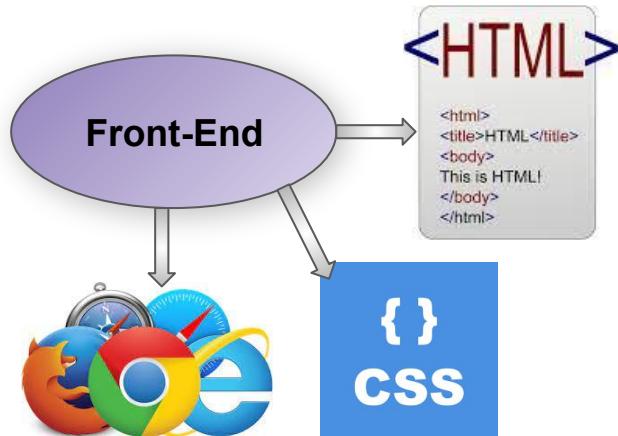
With Ramya Nagabhushan
Web Developer | Python Mentor

Development and Deployment - Part-2

Walkthrough of
Database Admin
Portal, it's Access &
Connection to
Database



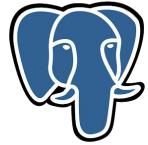
Python3 > Application's Components



Python3 > Databases [SQL | NoSQL]



It's an organized collection of data that can be used to store and retrieve data



PostgreSQL



Firebase

Python3 > Database Access Portal



App #1 : Database Admin Portal - Django

← → ⌛ ⓘ 127.0.0.1:8080/admin/students_crud_app/student/

Django administration

WELCOME, RAMYA. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home › Students_Crud_App › Students

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

STUDENTS_CRUD_APP

Students + Add

Select student to change

Action: — Go 0 of 9 selected

STUDENT

Test User

Mahadev

Sarah

Srivatsa

Maina

John

Rathod

Williams

Kate

9 students

ADD STUDENT +

«

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Python3 > Database Access Portal



App #2 : Database Admin Portal - Django

127.0.0.1:8000/admin/

Django administration

WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT

Site administration

AUTHENTICATION AND AUTHORIZATION

	+ Add	Change
Groups	+ Add	Change
Users	+ Add	Change

PYQUIZ_PORTAL_APP

	+ Add	Change
Category infos	+ Add	Change
Food cat infos	+ Add	Change
Geo cat infos	+ Add	Change
Mc quiz pythons	+ Add	Change
Mc quiz sportss	+ Add	Change
Mc quiz stems	+ Add	Change
Mc quizzes	+ Add	Change
Py cat infos	+ Add	Change
Sports cat infos	+ Add	Change
Stem cat infos	+ Add	Change

Recent actions

My actions

- Python3 Py cat info
- Python3 Py cat info
- Python3 Py cat info
- + Until 2013, select soccer player held the record for the number of goals in international competition for both men and women.
Mc quiz sports
- + How many overall World Cup championships has Lindsey Vonn won
Mc quiz sports
- + How many overall World Cup championships has Lindsey Vonn won
Mc quiz sports
- + Which driver is the only female to have won an IndyCar Series race?
Mc quiz sports

Commands



Steps to setting up and Running the Application:

- Create virtual env: [OSX] \$ `python3 -m venv path/venv_name` | [Windows] > `python -m venv path\venv_name`
- Activate above virtual env: \$ `source venv_name/bin/activate` | > `venv_name\Scripts\activate.bat`
- Install Django package: \$ or > `pip install django`
- Run the server: \$ or > `python manage.py runserver`
- Install dependencies [ex]: \$ or > `pip install gunicorn`
- Create Django project: \$ or > `django-admin startproject django_project`
- Create Django application: \$ or > `python manage.py startapp app_name`
- Access the database: <http://127.0.0.1:8000/admin>

Link to Slides



https://github.com/rnedesigns/WWCode_Py_CodingWorkshops

CRUD app - <https://students-crud-django.herokuapp.com/>

QUIZ Web App - <https://mcquiz-pydj.herokuapp.com/>

Q&A

Join our Slack for Help

<http://bit.ly/WWCodePythonSlack>

We will be happy to answer questions you may have...!!

WOMEN WHO CODE

Thank you All!

Women Who Code's Python track and Team

12th March 2022
@ 05:30 pm UTC

