



Developing the backend of a Web Application from A to Z with Python and Php (PART A)

A variety of technologies are essential to develop a web application. In many cases developers have fragmented knowledge on how to put all the technologies together in order to develop a web application. This course is project-based that aims to teach the participants how to develop the backend of a web application from A to Z with the use of the most powerful and open-source technologies: Python and PHP.

During the course, participants will develop the backend of a web application for the creation of announcements where there will be users with permissions to post announcements in specific categories and users who consume the announcements



CODE: WA1PYTH



DURATION: 56 hours



START DATE: Day, xx/xx/xxxx



AUDIENCE PROFILE: This course is intended for users new to computer programming or experienced programmers who are new to client-side web development.



PREREQUISITES FOR PARTICIPATION:
NONE



TRAINING LANGUAGE:
Greek or English



TRAINING MATERIALS:
Step by Step training materials in the English Language



METHODOLOGY:

Lecture, discussion, demonstration and practice.



COURSE OBJECTIVES:

Upon completion of this course the participants will :

- Develop web application backend with the use of Python and PHP
- Develop web application frontend with the use of Angular and MongoDB
- Use GitHub and Heroku

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A variety of technologies are essential to develop a web application. In many cases developers have fragmented knowledge on how to put all the technologies together in order to develop a web application. This course is project-based that aims to teach the participants how to develop the backend of a web application from A to Z with the use of the most powerful and open-source technologies: Python and PHP.

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VENUE:

Webinar

or

**EDITC & MMC Conference Center,
Imvrou 16, 1055 Nicosia**



DATES & TIMES:

DAY, XX/XX/2022, XX:XX - XX:XX

DAY, XX/XX/2022, XX:XX - XX:XX

DAY, XX/XX/2022, XX:XX - XX:XX

DAY, XX/XX/2022, XX:XX - XX:XX



PARICIPATION COST:

The cost includes the course notes and certificate. In the event of classroom led training, coffee, snacks and lunch (only for full day courses) are offered complimentary.

Participation Cost

- Total Cost: €XXX
- HRDA Subsidy: €XXX
- Net Cost: €XXX

For Unemployed

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Developing the backend of a Web Application from A to Z with Python and Php (PART A)**COURSE TOPICS****PART 1****1. Εισαγωγή στην Python**

- Χρήση σαν αριθμομηχανή
- Μεταβλητές
- Ανάθεση στις μεταβλητές
- Βασικοί τύποι αντικειμένων
- Οι βασικοί τύποι αντικειμένων δεν μεταλλάσσονται με την ανάθεση
- Μεγάλοι ακέραιοι
- Λευκός χώρος (whitespace)

Project: Developing a system for announcements**2. Εργαλεία ελέγχου ροής**

- Εντολές if, for, while
- Συναρτήσεις
- Σύνθετοι τύποι αντικειμένων (lists, tuples, sets, dictionaries)

Project: Developing a system for announcements (cont)**3. Αντικειμενοστραφής Προγραμματισμός**

- Εισαγωγή
- Ορισμός κλάσης και χαρακτηριστικά
- Μέθοδοι των κλάσεων
- Μέθοδος __init__
- Μέθοδος __repr__
- Κληρονομικότητα στις κλάσεις

Project: Developing a system for announcements (cont)**4. Διαχείριση λαθών εκτέλεσης.**

- Λάθη κατά τη διάρκεια της εκτέλεσης

Project: Developing a system for announcements (cont)**5. Εξαιρέσεις**

- Ονόματα των εξαιρέσεων
- Διαχείριση εξαιρέσεων με χρήση των try / except
- Διαχείριση εξαιρέσεων με χρήση των try / except / else
- Διαχείριση εξαιρέσεων με χρήση των try / except / else / finally
- Πολλαπλά except
- Χρήση των εξαιρέσεων για πέρασμα μνημάτων μέσα στον κώδικα

Project: Developing a system for announcements**(cont)****6. MongoDB (*1)**

- Introduction to MongoDB, Robot 3T and basic queries
- The MongoDB Query Language + MongoDB Atlas
- Deeper Dive on the MongoDB Query Language
- Use MongoDB to store data in a database

Project: Developing a system for announcements (cont)**7. Python & Web**

- Python Web Programming
- Project: Developing a system for announcements (cont)

8. Python & Web, Postman, Github, Heroku

- Python Requests with REST APIs
- Tools for documentation of API
- Upload app to Github
- Upload app to Heroku
- Check backend with postman

Project: Developing a system for announcements (cont)**PART 2****9. Εισαγωγή στην PHP**

- Χρήση σαν αριθμομηχανή
- Μεταβλητές
- Ανάθεση στις μεταβλητές
- Βασικοί τύποι αντικειμένων
- Οι βασικοί τύποι αντικειμένων δεν μεταλλάσσονται με την ανάθεση
- Μεγάλοι ακέραιοι
- Λευκός χώρος (whitespace)

Project: Developing a system for announcements (cont)**10. Εργαλεία ελέγχου ροής**

- Εντολές if, for, while
- Συναρτήσεις
- Σύνθετοι τύποι αντικειμένων (lists, tuples, sets, dictionaries)

Project: Developing a system for announcements (cont)**11. Αντικειμενοστραφής Προγραμματισμός**

- Εισαγωγή
- Ορισμός κλάσης και χαρακτηριστικά

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COURSE TOPICS

- Μέθοδοι των κλάσεων
- Κληρονομικότητα στις κλάσεις

Project: Developing a system for announcements (cont)

12. Διαχείριση λαθών εκτέλεσης

- Λάθη κατά τη διάρκεια της εκτέλεσης

Project: Developing a system for announcements (cont)

13. Εξαιρέσεις

- Ονόματα των εξαιρέσεων
- Διαχείριση εξαιρέσεων με χρήση των try / except
- Διαχείριση εξαιρέσεων με χρήση των try / except / else
- Διαχείριση εξαιρέσεων με χρήση των try / except / else / finally
- Πολλαπλά except
- Χρήση των εξαιρέσεων για πέρασμα μηνυμάτων μέσα στον κώδικα

Project: Developing a system for announcements (cont)

14. PHP & Web

- PHP Web Programming
- PHP Requests with REST APIs
- Project: Developing a system for announcements (cont)

15. PHP & Web - Swagger-PHP

- PHP Requests with REST APIs
- Swagger PHP for documentation of API

Project: Developing a system for announcements (cont)

Postman, Github, Heroku

- Upload app to Github
- Upload app to Heroku
- Check backend with postman

16. Course Closure

- Recap and conclusions
- Action plan

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