



## Developing the frontend of a Web Application from A to Z with Typescript, Angular and MongoDB (PART B)

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

During the course, participants will develop the frontend 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. It is noted that this course is the 2<sup>nd</sup> course of a program series.



**CODE:** WA2ANGU



**DURATION:** 28 hours



**START DATE:** Day, xx/xx/xxxx



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



**PREREQUISITES FOR PARTICIPATION:**



**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 a web application frontend with the use of Typescript and Angular
- Use MongoDB
- Use Github and Heroku

Contact us

**77 77 72 52**

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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



### 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

- Please contact us

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### COURSE TOPICS

#### Εισαγωγή στη γλώσσα Typescript (\*2)

- Typescript vs Javascript
- Constants Variables Objects and Enums
- Types in TypeScript
- Programming in TypeScript
- Modules and Namespaces
- Advanced Topics in TypeScript
- Arrays Strong Typings and Tuples
- Spread and Arrow Function Operator

#### Εισαγωγή στο Material Design

- Styling Angular Components
- Tab Containers and Material Guards
- Material Navigation Menus
- Material Data Tables and Data Sources

#### Εισαγωγή στην Angular (\*3)

- Angular Components and Templates
- Angular Data Binding
- Angular Services
- Angular Routing

#### Angular Forms

- Angular Template Driven Forms
- Angular Model Driven Forms
- Angular Form Validation
- Angular Custom Form Validation

#### Προχωρημένη Angular

- Component Inputs and Event Emitters
- Observables
- Built-In, Custom and Async Pipes
- Templates and Containers

#### RxJs (\*4)

- Σύνδεση με backend
- Angular HTTP client
- Observables
- Javascript Reactive Extensions

#### Akita Store

- Store
- Actions
- Effects
- Entities

#### Stateless Authentication

- JSON Web Tokens
- Angular JWT Intetceptors
- JWT Nodejs backend
- Putting it all together

#### Github, Heroku

- Upload app to Github
- Upload app to Heroku

#### Course Closure

- Recap and conclusions
- Action plan
- Course Evaluation

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