Web Development with Python خطة معسكر

العناوين الفرعية	الموضوع	الأسبوع
• CLI • Git/Github • Python Intro • IDE setup • Variables • Type hinting • Data types • Data types casting • Flow control • IF conditionals • For Loop • While Loop • Range • Comparison operators • Logical operators	• Python 101	1
• functions • Functions with params • Functions with Return • Namespace scope • LIST • TUPLE • DICTIONARY • SET • Modules & Packages • File / Directory Operations • Recursion & Anonymous Functions • Exceptions & Exceptions Handling • Decorators • Object Oriented Programming • Virtual Environments & PIP	• Python 102	2
• Students work on a project individually (an interactive CLI program) to revise and implement what they learned in Unit-1.	UNIT-1 PROJECT	3
• How the internet works • Using HTML to build Web Pages • Using CSS to style interface	• Internet & world wide web introduction	4

• Using CSS libraries. • CSS Animation. • Adding media to a web page.		
• What is Django • Setting up a new project • Running a server with the right settings • Using views. • Using url mappings. • creating templates. • Passing data from view to templates. • Using conditionals , loops, variables inside a template. • Rendering a template • Using best practices when dealing with templates.	• Django Introduction	5
• Students work on a project individually to revise and implement what they learned in Unit-2. Expected a functional website.	UNIT-2 PROJECT	6
• Learn about RDBMS • What is an ORM • Using Django Models • Using migrations • CRUD operations on Model • Filtering results • Limiting and ordering results • Exploring different types of fields for different purposes	• Django ORM	7
• Students work on a project individually to revise and implement what they learned in Unit-3.	UNIT-3 PROJECT	8
• Using the Django User Model • Authenticating users • Logging in Users • Using the user object in views & templates • Giving permissions to users. • Checking for permission to users. • Limiting functionality or some pages to those users with permissions. • Django Admin panel. • Adding models to the Admin panel.	• Django Admin, Authentication & Authorization	9

● Customizing Admin panel.		
● Students work on a project individually to revise and implement what they learned in Unit-4.	UNIT-4 PROJECT	**10**
Students design, implement, and work in groups to create the final project of the bootcamp.	CAPSTONE	**11**
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