

Python Full Stack Developer

Duration 6 Weeks

Timing : TBD

Deliverables : Training & Reference Material

TOC as Below:

I. Software Development

1. SDLC
2. Agile
3. Scrum

II. Version Control

1. Introduction to Version control
2. Git & Github
3. Using Git commands
 - (a) Collaboration
 - (b) Branch Management
 - (c) Project Versioning

III. Database Management System

1. Need for DBMS
2. Types of DBMS
3. RDMS
4. DBMS designing
5. ER diagram
6. DB Normalisation
7. ACID compliance
8. MYSQL
 - (a) Introduction & Installation
 - (b) Using Workbench
 - (c) DDL(Work on Tables)
 - (d) DML(Manipulate data)
 - (e) Different Clauses
 - (f) Joins

- (g) Views
- (h) Nested Queries
- (i) Aggregate Functions
- (j) Stored Procedures & Functions
- (k) Indexes
- (l) Triggers

IV. Python Basics

1. Installation & Programming Interface
2. Data types & Operator
3. Control Structures & Loops
4. Creating Functions in Python
5. Data Structures in Python

V. Advanced Python

1. File Handling
2. Exception Handling
3. OOPs
4. Classes & Objects
5. Inheritance & types
6. Polymorphism & types
7. RegEx
8. Generator
9. Decorator

VI. Flask in Python

1. Flask Basics
2. Basic Routes
3. Flask Dynamic Routing
4. Flask Form Basics
5. Forms Fields Part One
6. Forms Fields Part Two
7. Flash Alerts
8. Flask DB connection
9. Flask Authentication

VII. REST using Flask

1. Introduction to REST
2. Basic REST API Example

3. CRUD operations in Flask

4. Flask REST API with Databases

VIII.Capstone Project