

Prerequisite	Participants are well aware of python and they have little coding background.
Duration	30 Days
Time	Daily 8 Hours
Prepared By	This document is prepared by Aniruddha Kudalkar
Revision	Document is in the draft mode.

## 1. Python Revision

- 1.1. Variables and Functions
- 1.2. Arrays
- 1.3. Loops
- 1.4. Conditional Statements
- 1.5. List, Tuple, Set, Dictionaries
- 1.6. Object Oriented Python
- 1.7. Exceptions
- 1.8. Modules and Packages

## 2. Flask

- 2.1. Introduction Of Flask
- 2.2. Jinja 2 Templates and Forms
- 2.3. REST Api
- 2.4. Database Management
- 2.5. Authentication
- 2.6. Flask App Deployment

## 3. Git

- 3.1. Git Introduction
- 3.2. Git Installation
- 3.3. Git Cli
- 3.4. Git Solutions
- 3.5. Git Operations
- 3.6. Using Git from Editor

#### 4. **MySql**

- 4.1. Introduction Of SQL and MySql
- 4.2. Installation of MySql
- 4.3. Database design
- 4.4. MySql Basics
- 4.5. Stored Procedures
- 4.6. Views and Triggers
- 4.7. Indexes and Text Search

#### 5. **HTML, CSS3 and Javascript**

- 5.1. Introduction of Web Development
- 5.2. HTML5 Tags
- 5.3. CSS3 Fundamentals
- 5.4. CSS3 Flexbox, Gridlayout
- 5.5. CSS3 Media Queries
- 5.6. CSS3 Framework, Using Bootstrap 5
- 5.7. Javascript Fundamentals
- 5.8. ES6/7 Features
- 5.9. DOM Manipulation

#### 6. **Unit Testing in Python**

- 6.1. Unittest module
- 6.2. Unittest: Mock testing
- 6.3. Unittest: Flask REST Api Unit Testing

#### 7. **CI/CD**

- 7.1. Aws CodePipeline
- 7.2. Aws CodeCommit
- 7.3. Aws CodeBuild
- 7.4. Aws Code Deploy
- 7.5. Docker, Jenkins

## 8. Basics Of Ansible

- 8.1. Fundamentals of Ansible
- 8.2. Basics of Tasks, Plays and Playbooks
- 8.3. Executing Playbooks

## 9. Basics Of ReactJs

- 9.1. Fundamentals of Reactjs
- 9.2. JSX Basics
- 9.3. First Component
- 9.4. Event Handling
- 9.5. Props and State

## 10. Project

- 10.1. Very basic CRM System for local food vendor