

Day 1: Introduction and Planning

• Morning Session

- Welcome and Introduction to the Bootcamp

https://docs.google.com/document/d/e/2PACX-1vSWc_RrSIIJZamInJ6n-KZtJkcgTp-p-CsaR_-Kq_U5ZwzCf-zWU8b6RmaV86KaNiJVUJ5cFadTr88VI/pub

- Overview of the Application Development Lifecycle

<https://excalidraw.com/#room=c4dd2a4c6381a2e88386.a4bBDzXxDILuC5-6y6Ofug>

- Project Statement and Wireframe Discussion

- Github Repository: https://github.com/shrikrishna97/App_dev_1_workshop

• Afternoon Session (Hands On)

- Requirement Gathering and framework installation

- [Flask Intro — Python Beginners documentation](#)
- [HTML a tag](#)
- [Quickstart — Flask Documentation \(3.0.x\)](#)
- [Form controls · Bootstrap v5.0](#)
- <https://getbootstrap.com/docs/5.0/getting-started/introduction/>
- [Install WSL | Microsoft Learn](#)

- Configurations of the project

<https://python-adv-web-apps.readthedocs.io/en/latest/flask.html>

Day 2: Templates Creation/APIs setup

• Morning Session

- Templates creation
- Starting with APIs/Routes, creating basic APIs/Routes for backend

• Afternoon Session (Hands On)

- Basic template creation like login, signup, user dashboard
- Students creating the APIs/Routes

Day 3: Designing the Application - Basic Model Creation and Database

- **Morning Session**

- Understanding the Models and Database
- Revising ORM (SQLAlchemy)
- POST and GET for User (CRUD-1)

Day 4: Backend Setup - Setting up flask and CRUD

- **Morning Session**

Resource: [Flask Tutorials - YouTube](#)

- Introduction to Backend Development
- Creating CRUD using flask for component 1

- **Afternoon Session (Hands On)**

- Students to replicate the same operation on their project
- One-to-one doubt clearance

Day 5: Backend Development continued.

- **Morning Session**

- Setting up search functionality

- **Afternoon Session (Hands On)**

- Students to replicate the same operation on their project
- One-to-one doubt clearance

Day 6: Development (Take away session)

- **Morning Session**

- Development

- **Afternoon Session (Hands On)**

- Hands-on Coding
- One-to-one doubt clearance

Day 7: Additional functionalities

- **Morning Session**

- Creating CRUD using flask for component and API


- **Afternoon Session (Hands On)**

- Practical Session: Implementing the features stated above
- One-to-one doubt clearance

Day 8: Backend Jobs continued

• Morning Session

- Practical Session: Implementing the remaining

Viva_prep_doc:  Bootcamp_viva_prep_doc

(Extra resource)

Flask form:

https://python-adv-web-apps.readthedocs.io/en/latest/flask_forms.html

Chart

js:<https://towardsdatascience.com/flask-and-chart-js-tutorial-i-d33e05fba845>

- One-to-one doubt clearance

• Afternoon Session (Hands On)

- Practical Session: Implementing the remaining
- One-to-one doubt clearance

Day 9: Buffer day - for remaining topics and mentoring

• Morning Session

- Practical Session: Implementing the remaining/extra features

 App dev Project Report Demo

- One-to-one doubt clearance
- Preparing for the Final Submission
- Validity checks
- Tips for Effective Demonstrations

• Afternoon Session (Hands On)

 Mad-1 Doc

- Feedback from Instructors and Peers
- One-to-one doubt clearance
