

Day 13 : Morning

# Introduction to Frameworks

# What is framework?

A web framework or web application framework is software framework that is designed to support the development of web applications including web services, web resources, and web APIs. Web frameworks provide standard way to build and deploy web applications.

# What is Library?

A library is standard code toolset for a programming language

# Types of frameworks

- Frontend Frameworks
- Frontend Visual Frameworks
- Backend Frameworks
- Micro Frameworks
- Fullstack Frameworks

# Examples of Frontend Frameworks

- React
- Angular
- Vue.js
- Polymer
- Ember

# Examples of Frontend Visual Frameworks

- Bootstrap
- UI-Kit
- Materialize
- Skeleton
- Foundation

# Backend Frameworks

- Express (Javascript)
- Sinatra (Ruby)
- **Rails (Ruby)**
- Django (Python)
- **Spring (Java)**
- **Laravel (PHP)**



# Advantages of using Frameworks

- Run your code DRY (reduce writing your own code)
- Built-in functions and utilities
- Themes and components are available

# Disadvantages

- Code becomes more complex.
- Limited capabilities.

# Bootstrap

Content Delivery Network (CDN)