Internship Program – AkashTechnolabs

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Sem: 7th (BE-IT)

Date: 1st June 2021

Day-6-Report
(Work Summary)

INTERNSHIP at AkashTechnoLabs

Day-6: What we learnt?

- ✓ Today, we started our main topic in our internship which is 'Django'.
- ✓ Today we didn't perform any programs. We were just learned theoretical session of python framework Django.
- ✓ We learned basic information about some web based python frameworks, which are following this:
  - ➢ Django
  - ➢ Web2py
  - ➢ TurboGears
  - ➢ CubicWeb
  - ➢ Giotto
  - ➢ Pylon
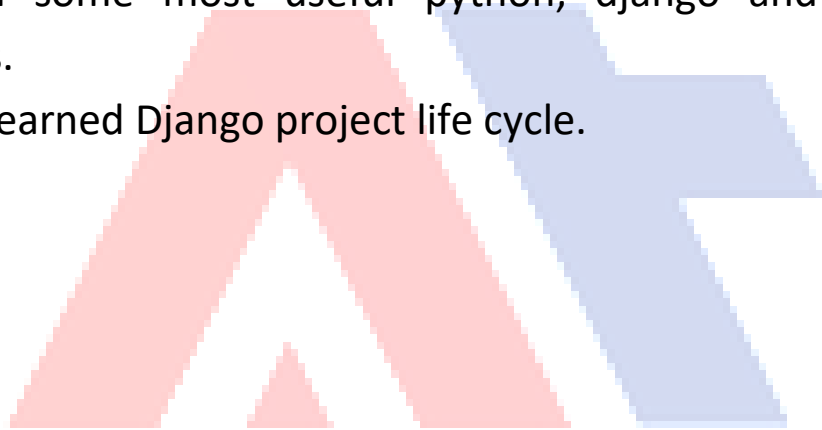 - ➢ Bottle
  - ➢ CherryPy
  - ➢ Flask
  - ➢ Sanic

- ➢ Tornado
- ✓ We learned 'What is Django?'. Django is free & open-source python framework for develop website faster. It follows DRY (Don't Repeat Yourself) principle.
- ✓ Then, we learned 'Why it is so popular in market?'.
- ✓ Then we are got aware about what we are going to learn about Django in this internship like Internship Highlights
  - ➢ Authentication support
  - ➢ Database schema migrations
  - ➢ Object-relational mapper (ORM)
  - ➢ Support for web servers
  - ➢ Template engine
  - ➢ URL routing
- ✓ We also get to know about Django has an inbuilt supportive library for multiple databases:
  - ➢ MySQL
  - ➢ PostgreSQL
  - ➢ SQLite3
  - ➢ Oracle
- ✓ Then we suddenly jumped into history of Django like 'who made it?' and 'how they named this framework Django?' and we also gather info about version timeline of Django which shows version and its release dates.
- ✓ We learned 'Which are the amazing features those Django provide?' like:
  - ➢ It's fast and simple
  - ➢ Open Source
  - ➢ It's secure
  - ➢ It suits any web application project
  - ➢ It's well-established

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- ✓ After that we get an information about 'which companies are using Django in this contemporary world to grow their business and marketing?'. Instagram, Pinterest, Disqus, Spotify, Bitbucket use Django.
- ✓ The we learned MVT structure which are used by Django to develop any Django project in organized way. MVT means Model, View, Template:
  - ➢ Model
    - Defines the data structure.
    - Takes care for querying the database.
  - ➢ View
    - Defines what data should be presented
    - Returns HTTP response
  - ➢ Template
    - Renders the data in suitable format – HTML/XML/etc…
- ✓ After we know what are prerequisites of learning Django which include basic of python and its functionalities.
- ✓ Then we choose our code editor (VS Code) for programming in Django and installed it.
- ✓ Then using 'pip' we install Django into our system but before that we set out python path to environment variable.
- ✓ Then we learn about 'pip' command also called 'pip Installs Packages'.
- ✓ Then we learned some basic command like how to download, upgrade, and uninstall any python library using "pip" command.
- ✓ We also learned how to find version of any installed python libraries using "pip". As well as we learned how to see all installed python libraries in our system.
- ✓ Then we visited Django official website where all documentation of Django is already there.

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- ✓ Then we learned how to start Django project using django-admin startproject command.
- ✓ This command will generate some python files like manage.py, admin.py, settings.py, urls.py etc.
- ✓ We run the project by command python manage.py runserver.
- ✓ We leaned details definition about all Django files.
- ✓ We install some most useful python, django and VS code icons extensions.
- ✓ Then, we learned Django project life cycle.