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project1. (requests2.20.0, pydantic3.0.0, flask=1.0.0)
- venv
project2

- venv

project3

- venv

SDLC (Software Development Life Cycle)

requirements gathering -> software development -> testing -> deployment -> operations/maintainance

BA - Business Analyst (MBA - investment banking)

developer

tester

devops

Development

DEV -> TEST -> UAT -> PROD

DEV (linux, windows)

python 3.10, (requests 2.20.0, pydantic 3.0.0, flask = 1.0.0)

PROD

python 3.10

Dependency Management

- virtualenv is used for dependency management.
- virtualenv is helpful in creating isolation of environments

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- pip is package manager
- pip gets shipped along with Python installation
- pip downloads packages from pypi.org
- pypi.org packages index (repository for python packages)
- pypi.org packages authorized by python.org

command

- pip ::
- pip install virtualenv
- virtualenv venv
- venv venv
- python -m virtualenv venv
- windows: venv\Scripts\activate
- Unix: source venv/bin/activate

pip commands

- pip install <package-name>==<version>
- pip uninstall <package-name>
- pip freeze (tells you what all packages and their versions are currently installed)

how to deactivate virtualenv?

• deactivate

what is requirements.txt?

- Its a convention to have a file called requirements.txt under each project
- This file tells us package dependencies required for the project.
- To install all the packages from requirements.txt collectively run following command

```
pip install -r requirements.txt
```

- to write output of pip freeze into requirements.txt run following -
- pip freeze > requirements.txt

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Terminology

UAT: User Acceptance Testing

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