· Virtual anumouneuts!

70-7 manage project dependencies (2-7 isolates environments from each other

-> virtual environments ensure that dependencies do not conflict and projects remain organised.

-> which environments do not affect the global environment -> avoid conflicts between different projects.

-> allow for clean and partible enironment.
-> erme consistency across different medies

· Can run different versions of Python was in each embounet, including associated purhages. enva: Python 3.3

enub: Python 3.10 + Flask 2.2.1

enc: Paython 3.11 & Aask 2.3.1

detting Up Ustual Environments:

· all untral environnets should be set up in a certal directory.

python 3.9 - m venv ~/. venv/enva

python version module directory where enub is setup.

tells python to run ven module activating rithed environment: 13/0/2025 source ~/. venu/enub/bin/activate, this' prompt authories the artual emmonent Figinstall Hack == 2.7.1 Plant versions older installs Flack. than 2-2.0 require may reed to use pip? He whall of Westzeng pip install werkzeng==2.2.2 flask==2.1.2 deactivates the without environment. Using Virtual Environments source ~ 1. venu / enub/ bin/ activate # step 1 python b.py

# Step 2

deactivate

# Step 3 Step 1: actuates the environment envir step 2: mus the application b.py Aep 3: deachiveles envo