**HACKTHON NOTES**

DevOps :

DevOps= development + operations

* Developers(who write code)
* Operations(who deploy/manage system)
* Works together instead of working in silos

Real time examples:

Imagine you’re building a mobile app like **swiggy.**

* The developer writes a code to add “track my order” feature .
* Without DevOps: developer gives code to ops team 🡪 they manually deploy 🡪 bugs happen 🡪 delays.
* With DevOps : code is **automatically tested and deployed** 🡪 customers get updates **faster** and **safely.**

**DeVos helps you :**

* Release features faster( like adding new payment method in Zomato)
* Fix bugs quickly (like fixing login issue in IRCTC)
* Automate repetitive tasks(like server restarts, database backup

**EIGHT STAGES OF DEVELOPMENT**

* **Plan** (Define what to build)
* **Develop**(Write the code)
* **Build** (Compile code into deployable format)
* **Test** (Check for bugs automatically)
* **Release** (Approve the build for deployment)
* **Deploy**(Push app to servers or app store)
* **Operate**(Keep app running, fix any issues)
* **Monitor**(Analyse performance and feedback)

**GitHub Basics:**

**What is Git & GitHub ?**

* **Git** = version control system(local)
* **GitHub** = online platform to store git projects