

■ 30-Day Learning Plan: Flutter & DevOps

Week 1 – Foundations

Day 1

- Flutter: Build Hello World with widgets (Text, Container).
- DevOps: Linux – basic commands (ls, cd, cp, rm, chmod).

Day 2

- Flutter: Layouts – Row, Column, Stack.
- DevOps: grep, find, less, nano.

Day 3

- Flutter: Navigation between screens (Navigator.push/pop).
- DevOps: Processes – ps, top, kill, systemctl.

Day 4

- Flutter: Forms – TextField, Button, validation.
- DevOps: User management – useradd, passwd, groups.

Day 5

- Flutter: Lists – ListView, GridView.
- DevOps: Permissions – chown, umask, tar.

Day 6

- Flutter: Stateful widgets, setState.
- DevOps: Networking – ping, curl, ss/netstat.

Day 7

- Flutter: Mini project – ToDo List app.
- DevOps: Write a Bash script to automate backups.

Week 2 – Intermediate

Day 8

- Flutter: Themes, colors, fonts.
- DevOps: Docker basics – docker run, docker ps.

Day 9

- Flutter: Images, Assets, Icons.
- DevOps: Docker images – docker build, docker images.

Day 10

- Flutter: API Call with http package.
- DevOps: Docker volumes & networks.

Day 11

- Flutter: Async & FutureBuilder.
- DevOps: Docker Compose – run multi-container apps.

Day 12

- Flutter: State management with Provider.
- DevOps: Write a Dockerfile for NodeJS app.

Day 13

- Flutter: Simple animations (AnimatedContainer).
- DevOps: Compose – deploy multi-service app.

Day 14

- Flutter: Mini project – Weather app with API + Provider.
- DevOps: Deploy app locally with Docker Compose.

Week 3 – Professional

Day 15

- Flutter: SharedPreferences (local storage).
- DevOps: Git basics – init, commit, push.

Day 16

- Flutter: Firebase Authentication (email login).
- DevOps: GitHub Actions – basics of workflows.

Day 17

- Flutter: Firestore – CRUD operations.
- DevOps: Create simple CI pipeline with GitHub Actions.

Day 18

- Flutter: Firebase Storage – upload image.
- DevOps: Add automated tests in CI/CD.

Day 19

- Flutter: Push Notifications (Firebase Messaging).
- DevOps: Deploy Docker app on free cloud (Render/Heroku).

Day 20

- Flutter: Advanced UI – Custom widgets.
- DevOps: Secrets & environment variables in CI/CD.

Day 21

- Flutter: Mini project – Chat app (Auth + Firestore).
- DevOps: Full CI/CD pipeline with Docker + GitHub Actions.

Week 4 – Mastery & Final Project

Day 22

- Flutter: Performance optimization (const, keys).
- DevOps: Kubernetes basics (pods, deployments).

Day 23

- Flutter: Integrate Google Maps or similar package.
- DevOps: Minikube – run local Kubernetes cluster.

Day 24

- Flutter: Payments (Stripe/PayPal basics).
- DevOps: Helm basics for app deployment.

Day 25

- Flutter: Testing – Unit & Widget tests.
- DevOps: Monitoring with Prometheus/Grafana basics.

Day 26

- Flutter: Responsive UI (mobile, tablet).
- DevOps: Logging – ELK stack basics.

Day 27

- Flutter: Internationalization (multi-language).
- DevOps: Security basics – SSH, firewalls, SSL.

Day 28

- Flutter: Deployment – Build APK/IPA for stores.
- DevOps: Deploy to Kubernetes cluster.

Day 29

- Flutter: Final polish – app icons, splash screen.
- DevOps: Write Infrastructure as Code with Terraform basics.

Day 30

- Flutter: Final Project – Deliver full app.
- DevOps: Deploy app with CI/CD + Docker + Kubernetes.