Jaipur Engineers

Your One-Stop IT & Staffing Ecosystem

CLOUD & DEVOPS

Docker

SAMPLE PROJECT

Containerised Catalogue App



COURSE FEE

Fee on enquiry

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Docker

Core concepts



01 Images, containers, layers and registries

02 Dockerfiles, caching and build context

03 Volumes, bind mounts and network basics

Trace the deployment

Document the components, access boundary and expected health signal.

Docker

Applied skills

- **Environment**
- **Service**
- **Health signals**



04 Docker Compose services and environment settings

05 Multi-stage builds and least-privilege defaults

06 Logs, health checks and image publishing

PROJECT DELIVERABLES

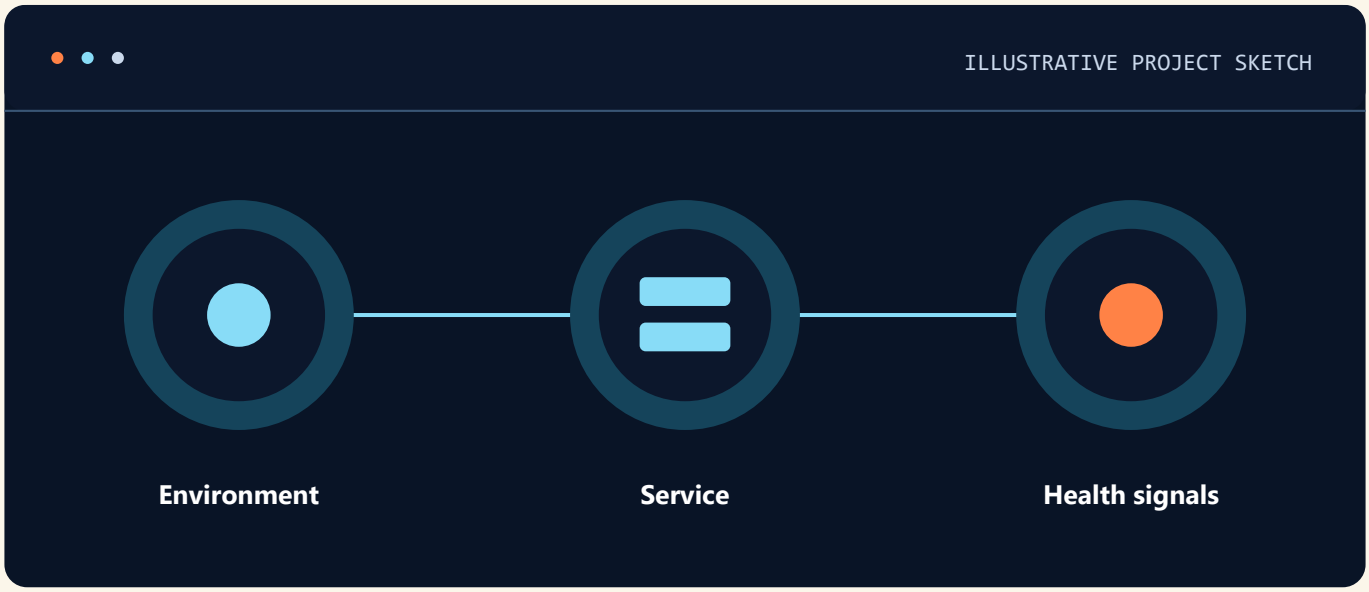
An architecture diagram, deployment notes and evidence of a health or recovery check.

Docker

Portfolio project

Containerised Catalogue App

Package a training app and database as a local Compose stack and verify storage survives a restart.



Trace the deployment

Document the components, access boundary and expected health signal.

Rehearse recovery

Use a practice environment to check the documented recovery or rollback.

An architecture diagram, deployment notes and evidence of a health or recovery check.

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Course fees

COURSE FEE

Fee on enquiry

Ask admissions for the course fee, available batches and enrolment details.

ADMISSIONS

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SCAN FOR MAP

Check course details

Docker

Course content

MODULES 01–02

01

Lessons & practice

- Images
- Containers
- Layers
- Registries

HANDS-ON — Build an image, run a container and explain how a tag identifies the version.

02

Lessons & practice

- Dockerfiles
- Caching
- Build context

HANDS-ON — Revise a Dockerfile and observe how changing layer order affects a rebuild.

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MODULES 03–04

03

Lessons & practice

- Volumes
- Bind mounts
- Network basics

HANDS-ON Restart a container and confirm its named volume preserves sample data.

04

Lessons & practice

- Docker Compose services
- Environment settings

HANDS-ON Use Compose to run a practice app and database with scoped settings.

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MODULES 05–06

05

Lessons & practice

- Multi-stage builds
- Least-privilege defaults

HANDS-ON

Compare a multi-stage build with the original and verify the container uses limited privileges.

06

Lessons & practice

- Logs
- Health checks
- Image publishing

HANDS-ON

Inspect container logs and health status and document image publishing and cleanup.