Jaipur Engineers

Your One-Stop IT & Staffing Ecosystem

JAVA

JPA

SAMPLE PROJECT

Training Enrolment Repository



COURSE FEE

Fee on enquiry

JAIPUR, RAJASTHAN

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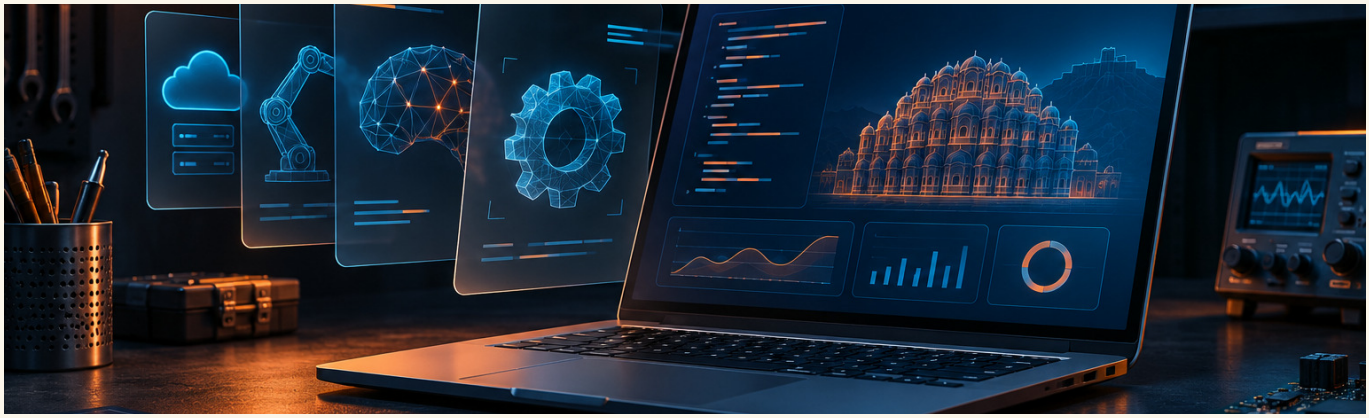
JPA

Core concepts



01 Entity mapping, identifiers and relationships

02 Persistence context and entity state changes

03 EntityManager and transaction boundaries

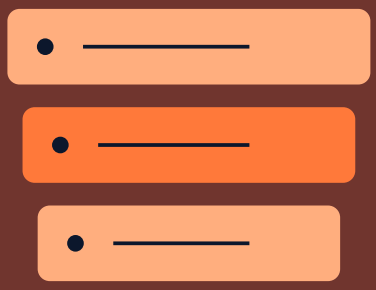
Model the domain

Identify data, actions and boundaries before writing the first class.

JPA

Applied skills

- **Model**
- **Execute**
- **Verify result**



04 JPQL, projections and pagination

05 Fetching, cascades and optimistic locking

06 Repository tests and query diagnostics

PROJECT DELIVERABLES

A runnable Java project, test results and notes on design and error handling.

JPA

Portfolio project

Training Enrolment Repository

Model students, courses and enrolments with JPA and query results by schedule.



Model the domain

Identify data, actions and boundaries before writing the first class.

Check a failure

Write a test for a rejected operation and confirm the data stays consistent.

A runnable Java project, test results and notes on design and error handling.

JPA

Course fees

COURSE FEE

Fee on enquiry

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

ADMISSIONS

+91 70146 92039

info@jaipurengineers.com

122/228, Indra Path, Thadi Market

Mansarovar, Jaipur, Rajasthan 302020

SCAN FOR MAP

Check course details

JPA

Course content

MODULES 01–02

01

Lessons & practice

- Entity mapping
- Identifiers
- Relationships

HANDS-ON

Map entities with identifiers and one-to-many relationships and inspect the resulting schema.

02

Lessons & practice

- Persistence context
- Entity state changes

HANDS-ON

Compare new, managed and detached objects during one update.

JPA

Course content

MODULES 03–04

03

Lessons & practice

- EntityManager
- Transaction boundaries

HANDS-ON Use EntityManager in a transaction and verify the effect of rollback.

04

Lessons & practice

- JPQL
- Projections
- Pagination

HANDS-ON Create a projection and test stable pagination with a defined sort order.

JPA

Course content

MODULES 05–06

05

Lessons & practice

- Fetching
- Cascades
- Optimistic locking

HANDS-ON Demonstrate optimistic locking with two edits to the same sample record.

06

Lessons & practice

- Repository tests
- Query diagnostics

HANDS-ON Test repository methods and record the queries needed for one request.