

■ Techno MR Interview Cheat Sheet – 20 Rapid Fire Q&A;

1. ****What is FastAPI?****

■ A modern Python web framework for building APIs with validation, async support, and docs.

2. ****Why use FastAPI over Flask/Django?****

■ Faster, async, auto docs, Pydantic validation.

3. ****What is Pydantic used for?****

■ Data validation and serialization.

4. ****What are query parameters in FastAPI?****

■ Parameters in URL after `?key=value`.

5. ****Explain JWT in one line.****

■ Secure token format for auth.

6. ****Main parts of JWT?****

■ Header, Payload, Signature.

7. ****How to protect routes in FastAPI?****

■ Use Depends with JWT verifier.

8. ****How to connect DB in FastAPI?****

■ SQLAlchemy + SessionLocal + get_db().

9. ****Sync vs Async?****

■ Sync blocks; async handles concurrency.

10. ****Async use-case?****

■ API calls, DB queries, I/O tasks.

11. ****What is Dependency Injection?****

■ Reusable components (DB, auth).

12. ****Password hashing method?****

■ passlib (bcrypt).

13. ****Custom error messages?****

■ Raise HTTPException(...).

14. ****What is ORM?****

■ Maps Python classes to DB tables.

15. ****What is Middleware?****

■ Runs before/after every request.

16. ****Testing FastAPI?****

■ TestClient + pytest.

17. ****PUT vs PATCH?****

■ PUT = full replace, PATCH = partial update.

18. ****REST vs GraphQL?****

■ REST: multiple endpoints. GraphQL: one endpoint, flexible response.

19. ****Common status codes?****

■ 200, 201, 400, 401, 404, 500.

20. ****Why should we hire you?****

■ Strong FastAPI + Python + DB + JWT + teamwork.