

SOFTWARE ARCHITECTURES



devopsbyraham





STUDIO SHODWE

WHAT IS AN ARCHITECTURE

devops by rahardja



CIVIL ENGINEER



SOFTWARE ENGINEER



deley raham

LETS PLAN TO DESIGN THE BLUE PRINT FOR APP







WOW
NICE

HISTORY

- NAME : Ada Lovelace
- YEAR: ~1842–1843
- Purpose: Create an algorithm for Analytical Engine(T) to calculate Bernoulli numbers.
- But Ada Lovelace is still called the first programmer.



THE FIRST PROGRAMMER.



CHI
SHUT

HISTORY

- Application: Assembler
- Developer: Kathleen Booth
- Year: 1947–1949
- Machine: ARC (Automatic Relay Calculator)
- Purpose: Convert symbolic instructions to machine code.



FIRST APPLICATION CREATOR

TYPES OF ARCHITECTURES

- ONE-TIER
- TWO-TIER
- THREE-TIER
- N-TIER



TIER

LAYER

SERVER

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TYPES OF SERVERS

WEB SERVER



APP SERVER



DB SERVER



WEB SERVER



AKA : THE PRESENTATION LAYER

PURPOSE : TO SHOW THE APP

WHO : UI/UX (FRONT-END DEV)

WHAT : WEB TECHNOLOGIES

EX : HTML, CSS, JS

APP SERVER



AKA : BUSINESS/LOGIC LAYER

PURPOSE : TO USE THE APP

WHO : BACKEND DEV

WHAT : PROGRAMMING

EX : JAVA, PYTHON, C, C++, .NET

DB SERVER



AKA : DATA SERVER

PURPOSE : TO STORE & RETRIEVE

WHO : DBA/DBD

WHAT : DB LANGUAGES

**EX : MYSQL, SQL, POSTGRES,
ORACLE --**

ONE TIER ARCHITECTURE

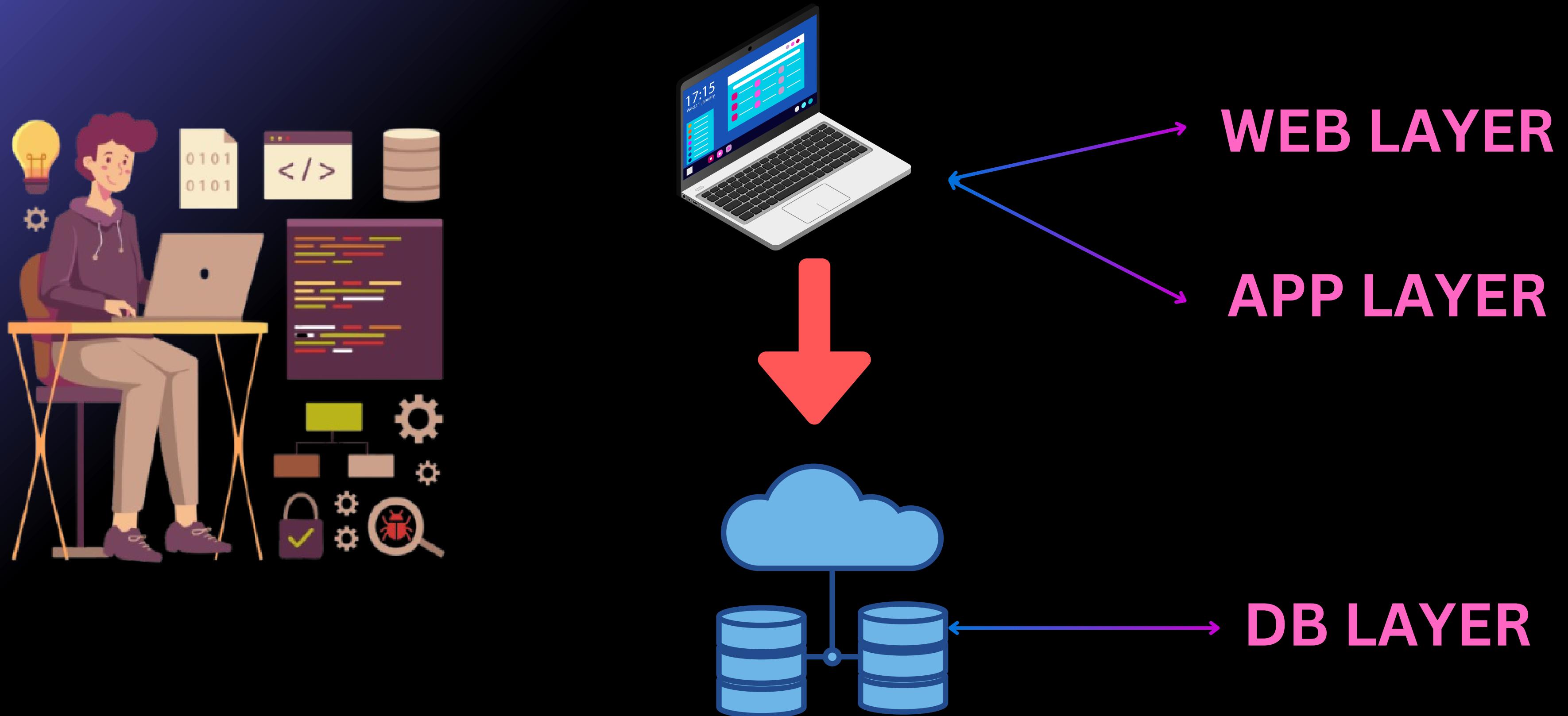
stand-alone apps





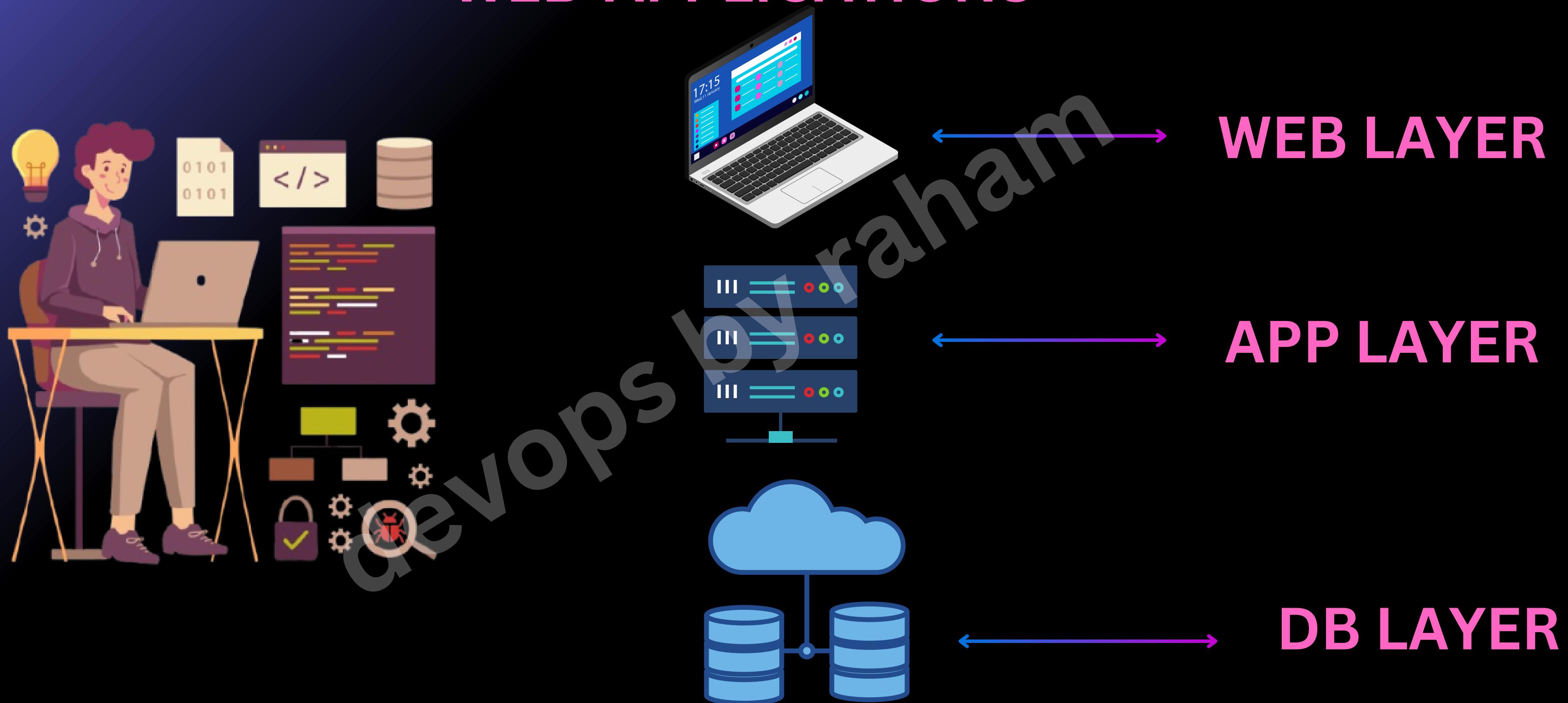
TWO TIER ARCHITECTURE

CLIENT-SERVER



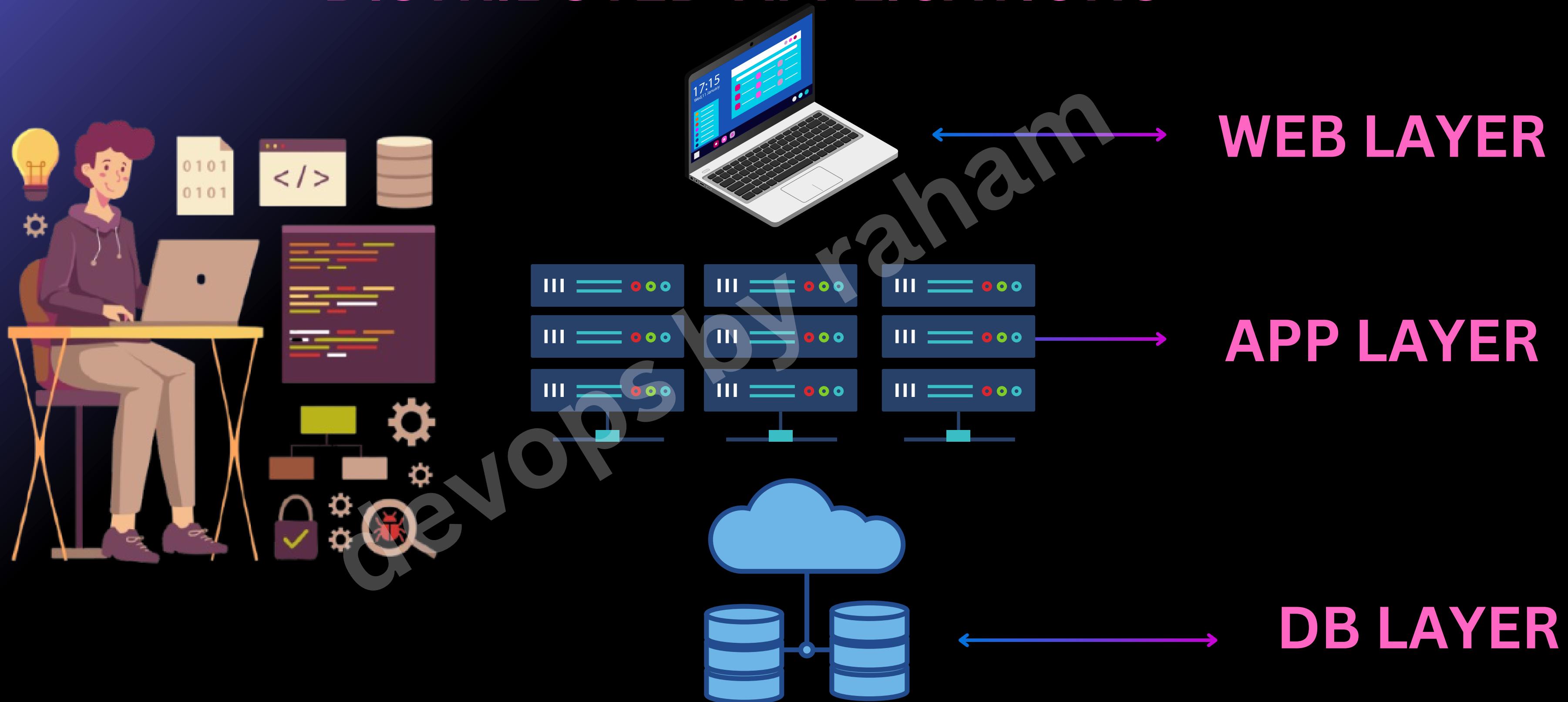
THREE TIER ARCHITECTURE

WEB-APPLICATIONS



N TIER ARCHITECTURE

DISTRIBUTED-APPLICATIONS



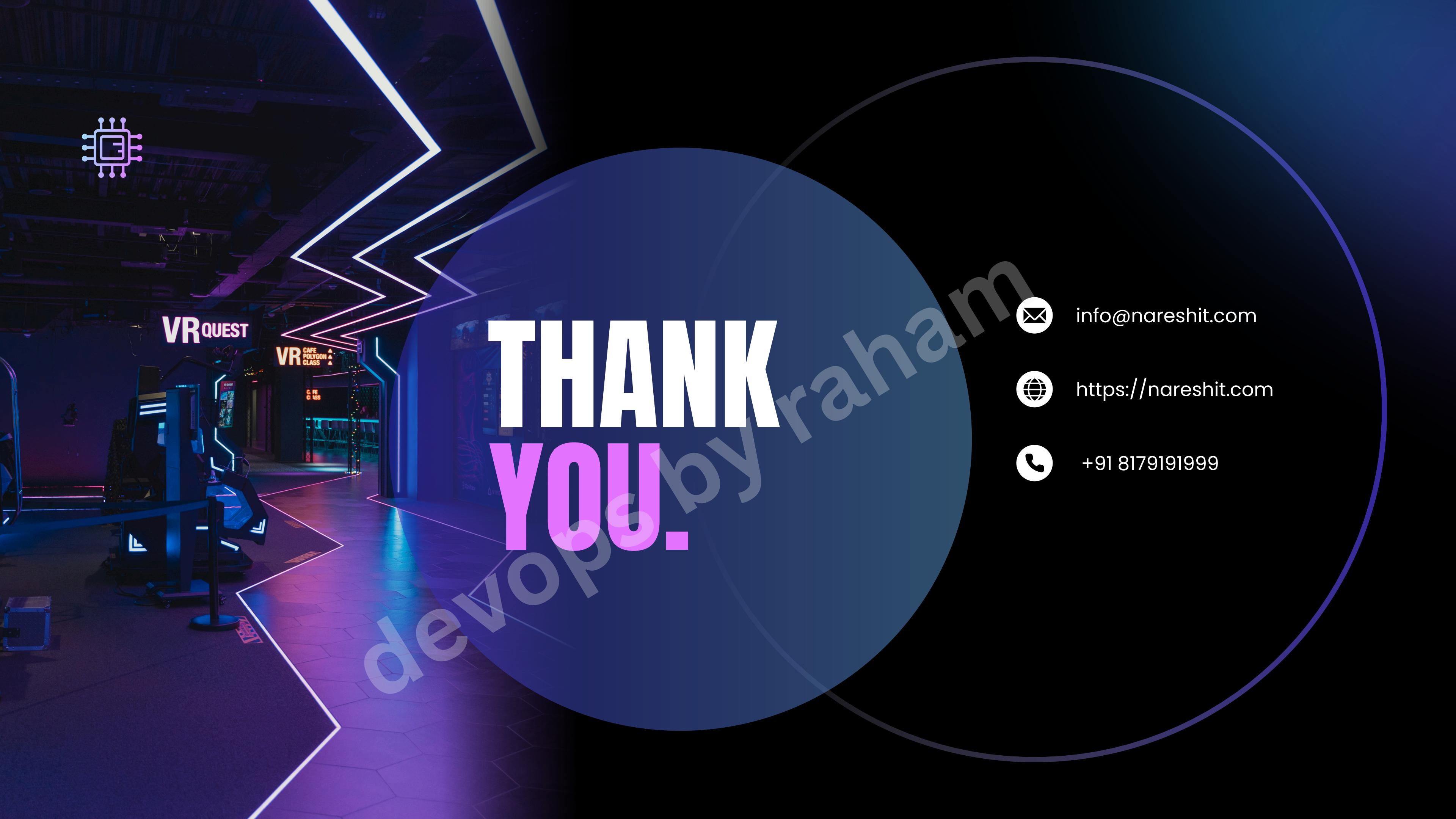


STUDIO SHODWE



KEY POINTS

- **kiss**
Keep It Simple, Stupid
- **Secure**
encryption at all layers.
- **scalability**
make sure it will scale as per needs
- **low cost**
use less paid tools and resources



THANK YOU.

devops by rraham



info@nareshit.com

<https://nareshit.com>

+91 8179191999