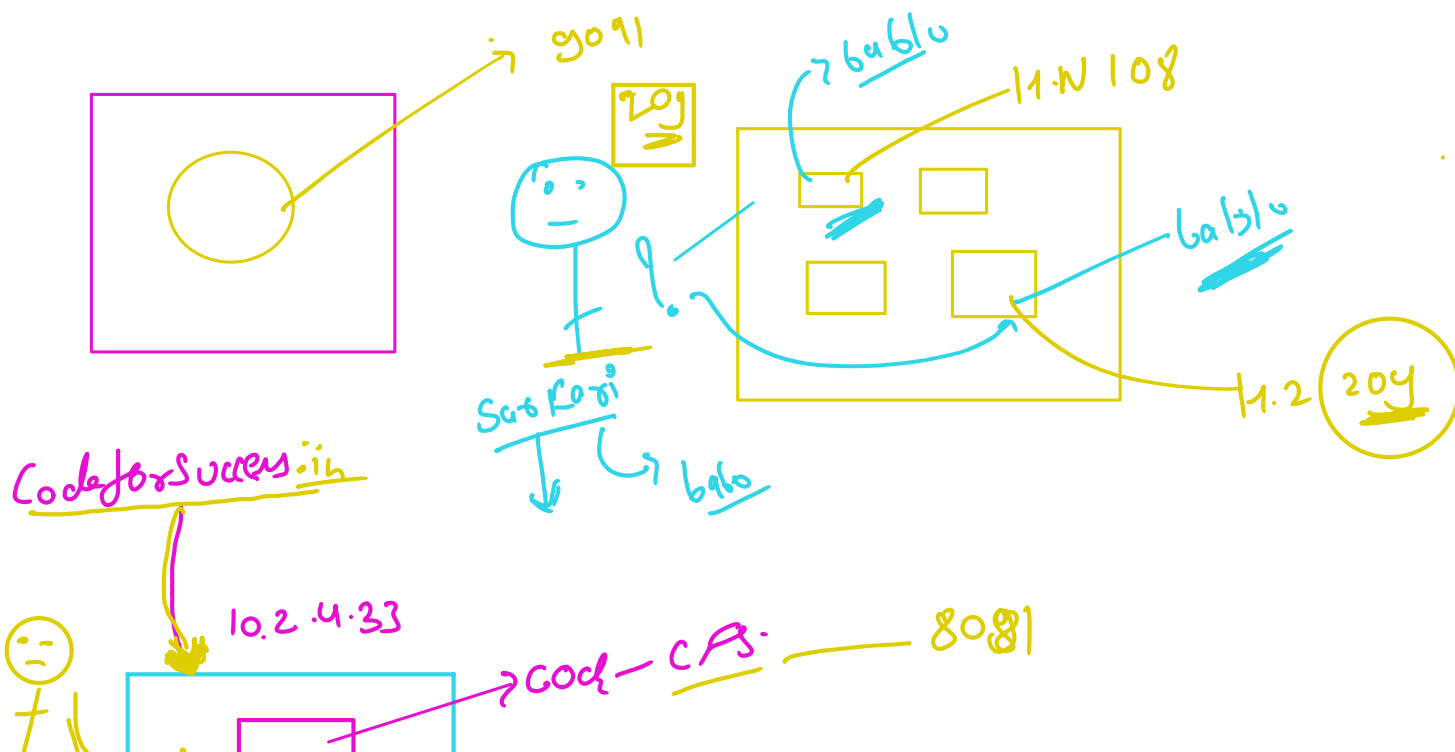
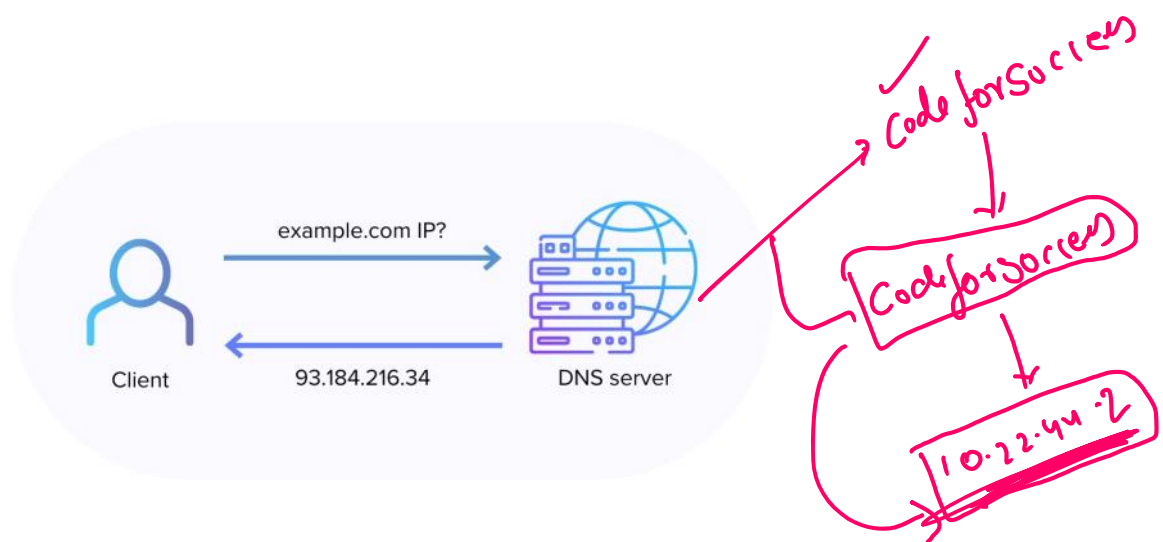
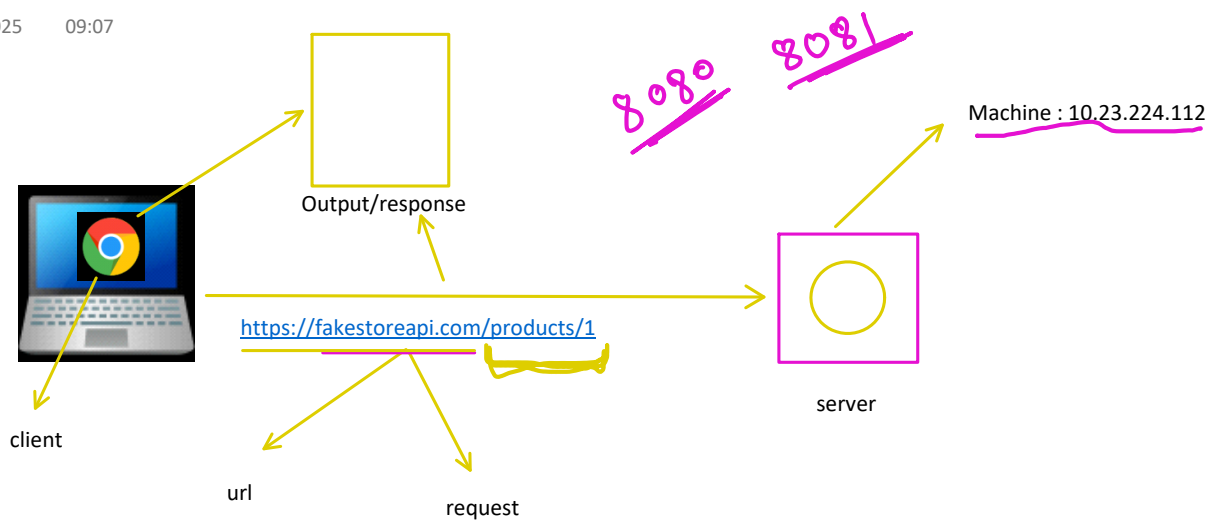
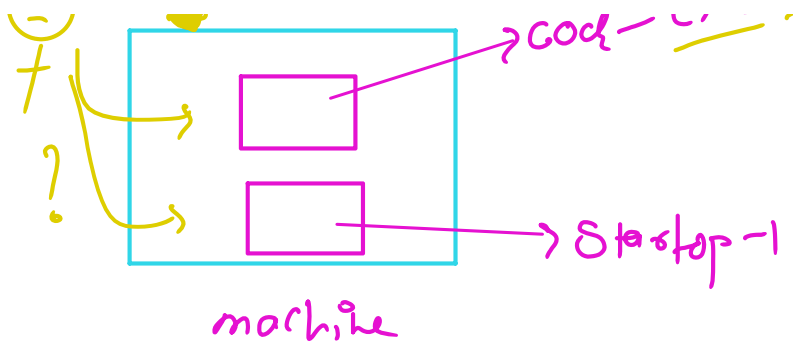


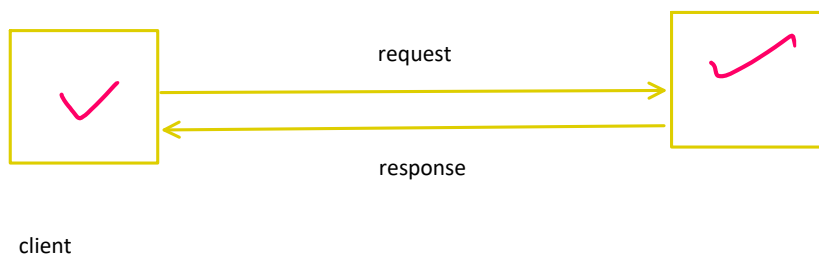
Servlet

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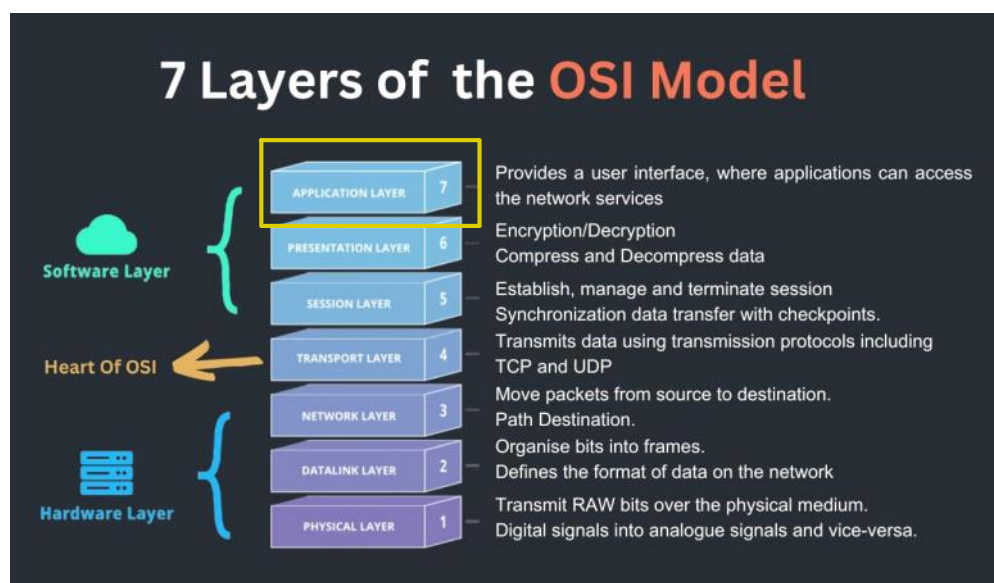




product



OSI model



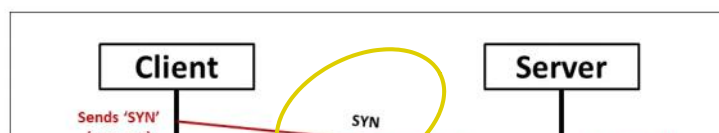
What is HTTP ?

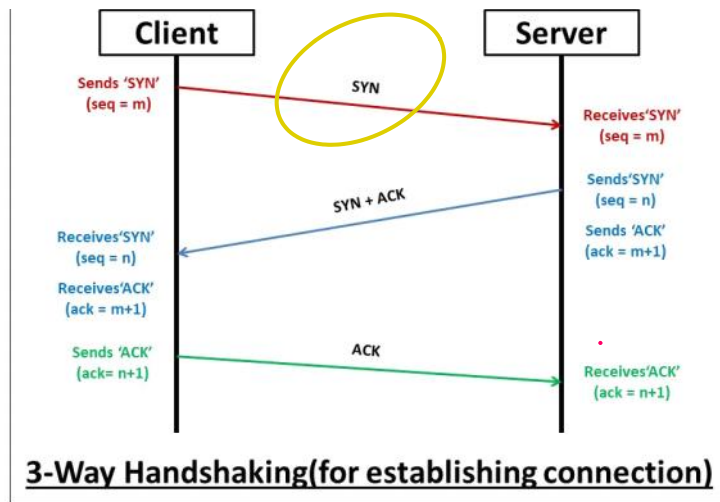
1. HTTP (hypertext transfer protocol) is a stateless application level protocol that operates on top of TCP/IP stack and follow the client-server model

What is TCP/IP ?

TCP(transmission control protocol) - ensure reliable data delivery

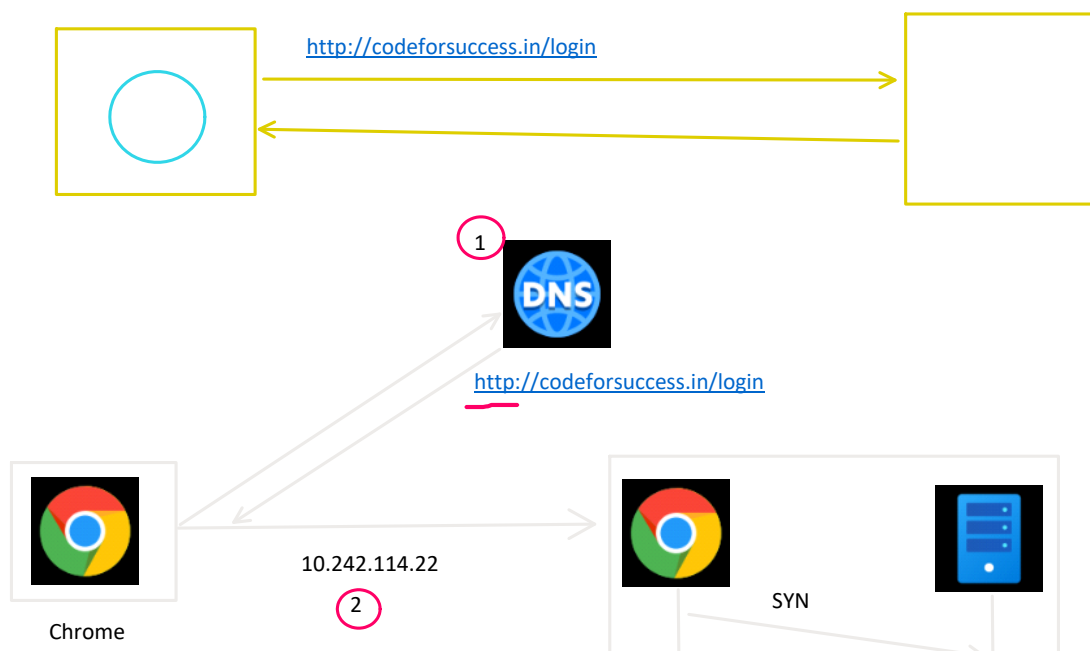
IP(internet protocol) - routes data packets to the correct destination (IP address)

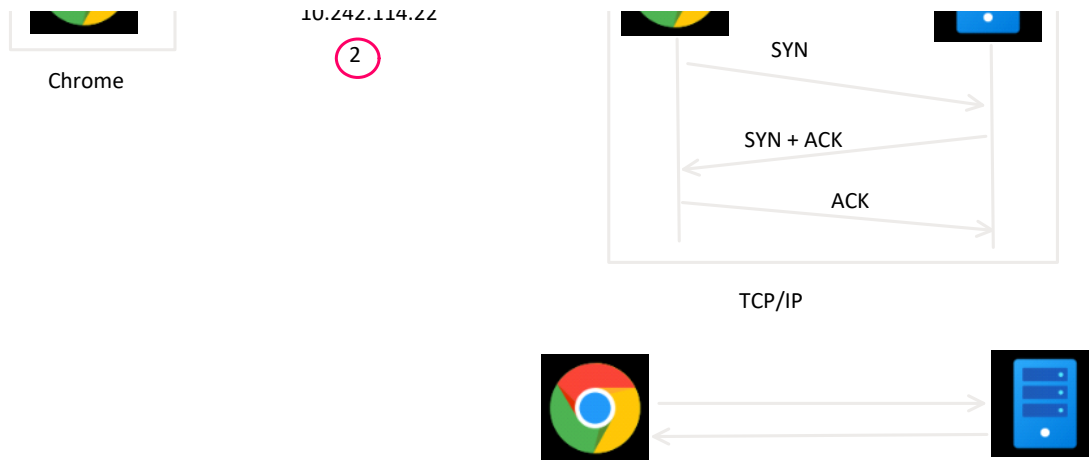




Flow:

1. Browser hit : <http://codeforsuccess.in/login>
2. DNS lookup
 - a. Resolves codeforsuccess.in -> 10.22.123.44
3. TCP handshake and establishing connection ✓
4. HTTP request sent via TCP stream
 - a. TCP breaks HTTP into packets
 - b. Each packet has a seq num
 - c. IP route them to server
 - d. Server read that req and return response
5. HTTP response sent via TCP
6. TCP close the connection





How to create servlet program

Servlet is technology used for making web application

What is web application ?

A web application is a program that runs on a server and can be accessed through browser by multiple users.

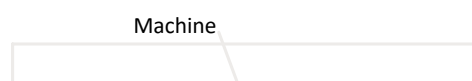
What is server ?

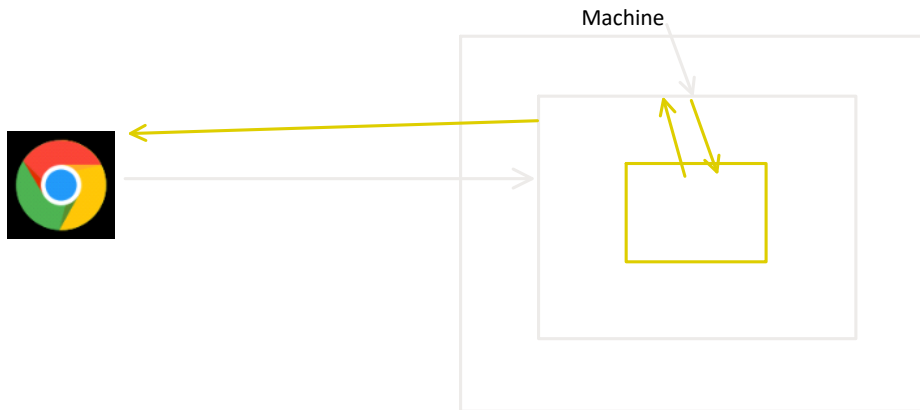
A server is a special program running on the machine where we will host/deploy our application

This program will handle request from client

This program will send response back to client

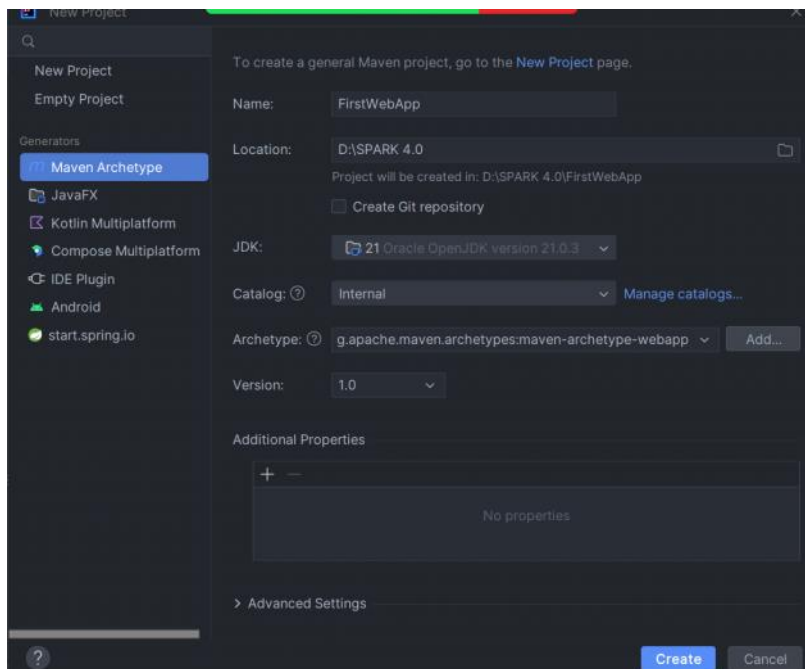
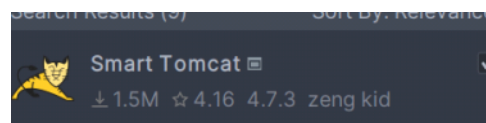
Note: without server, a web application cannot function.



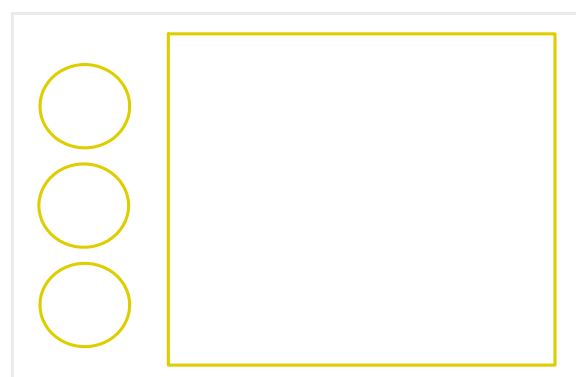


How to create your first web application

1. Download IntelliJ
2. Install smart tomcat plugin
3. Create new project

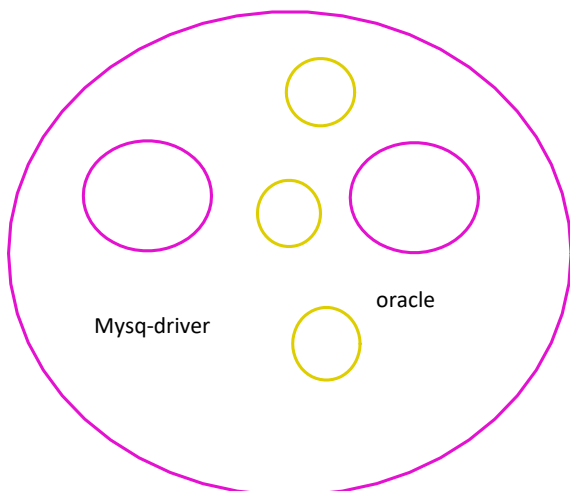
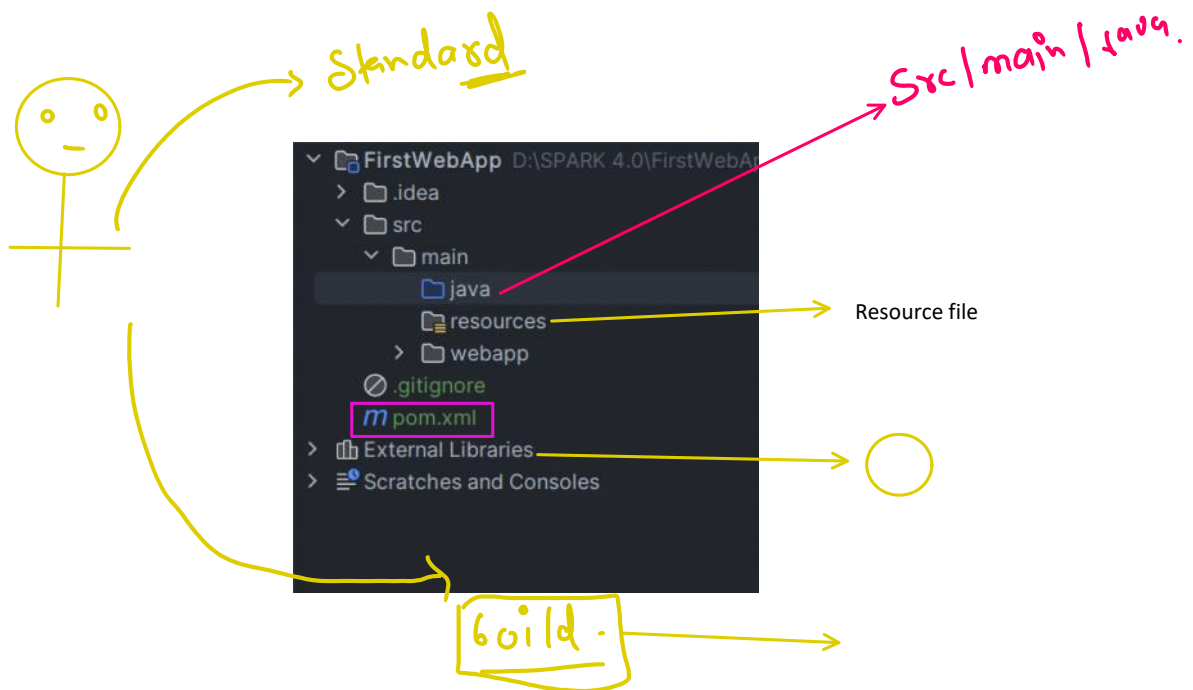
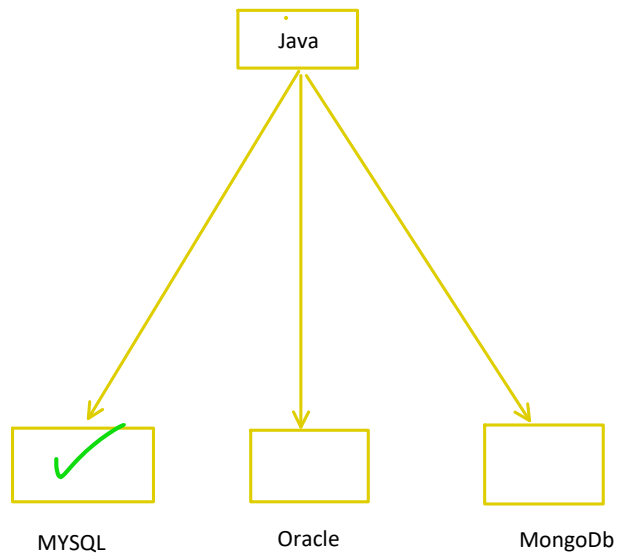


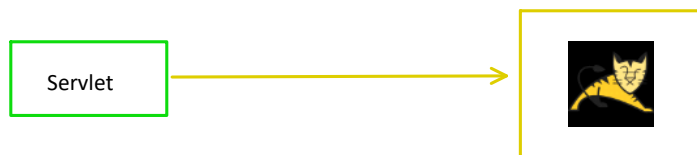
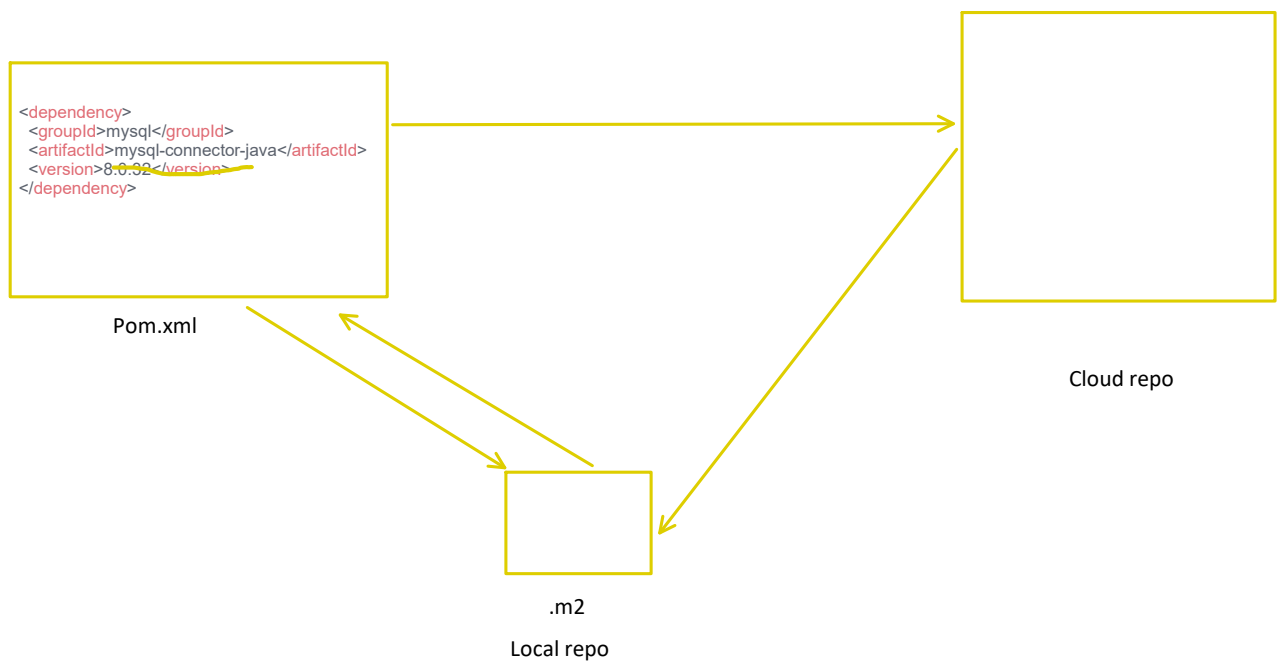
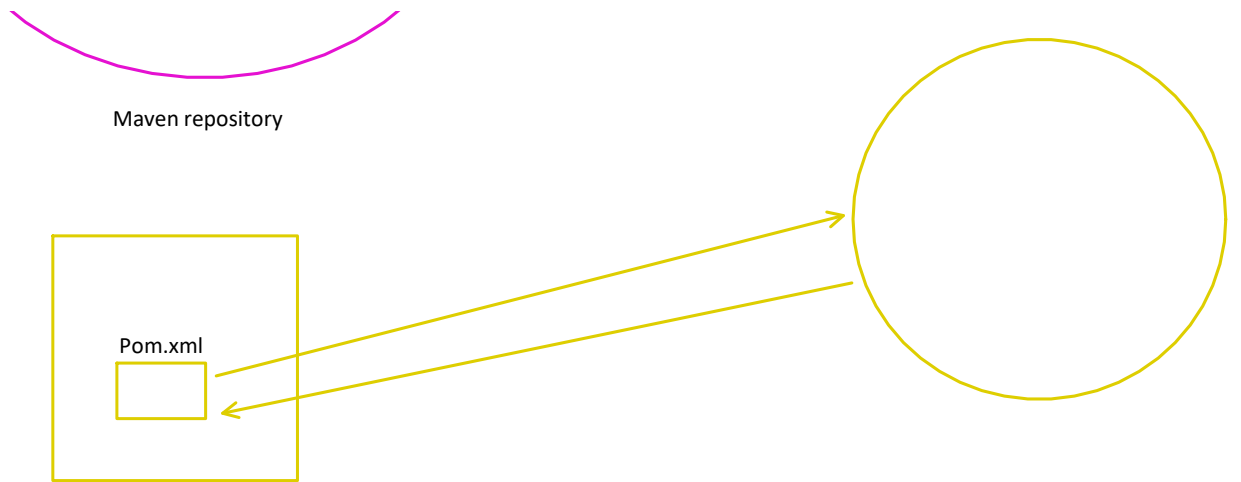
What is maven ?



Jar file

JDBC application





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Servlet life cycle

```
Int()
Service()
Destroy()
```

