SERVLET API

```java
interface javax.servlet.Servlet
{
    // Lifecycle methods
    public void init(ServletConfig config) throws ServletException;
    public void service(ServletRequest request, ServletResponse response) throws
IOException, ServletException;
    public void destroy();

    // Helper
    public String getServletInfo(); // older versions this was used as flagging
mechasim
    public ServletConfig getServletConfig();
}
```

Tomcat

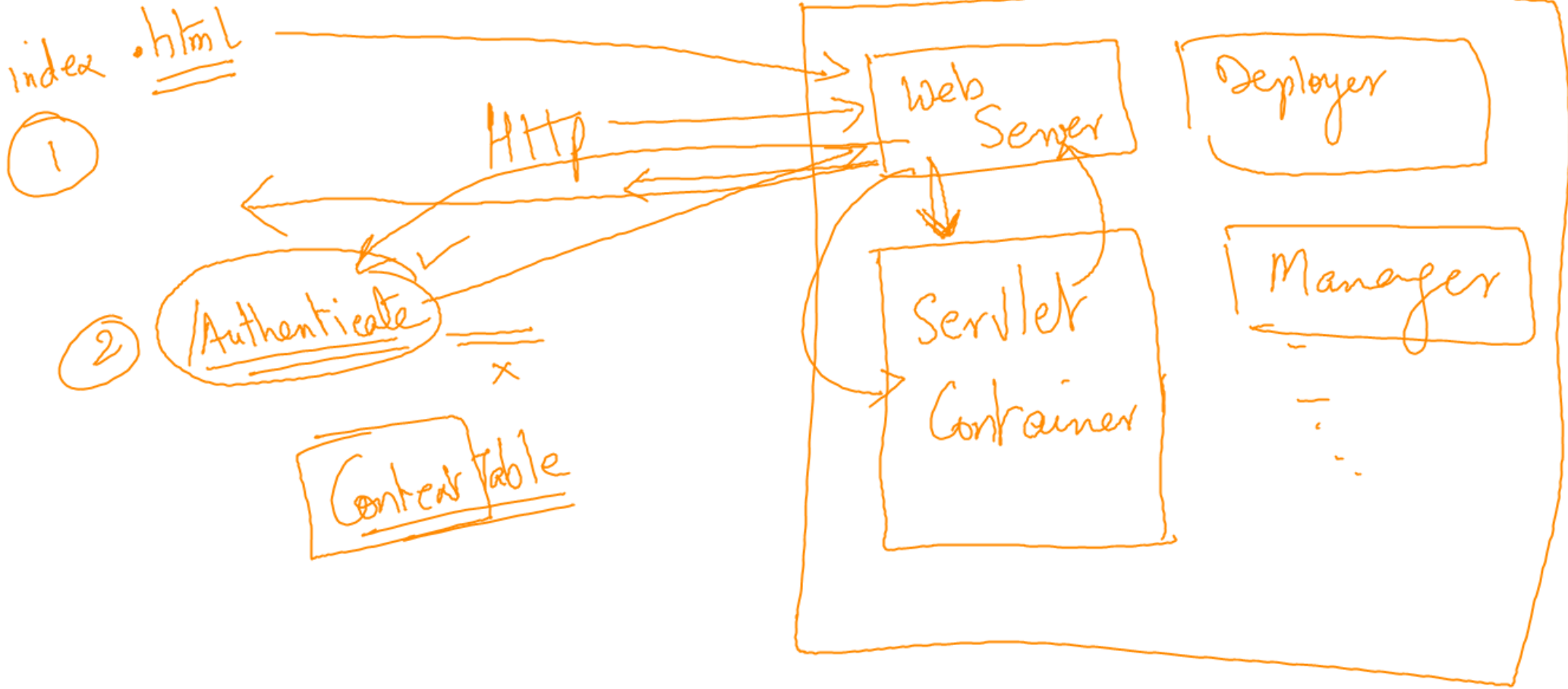index .html

①

② Authenticate

Http

Content Table

Web Server

Deployer

Servlet Container

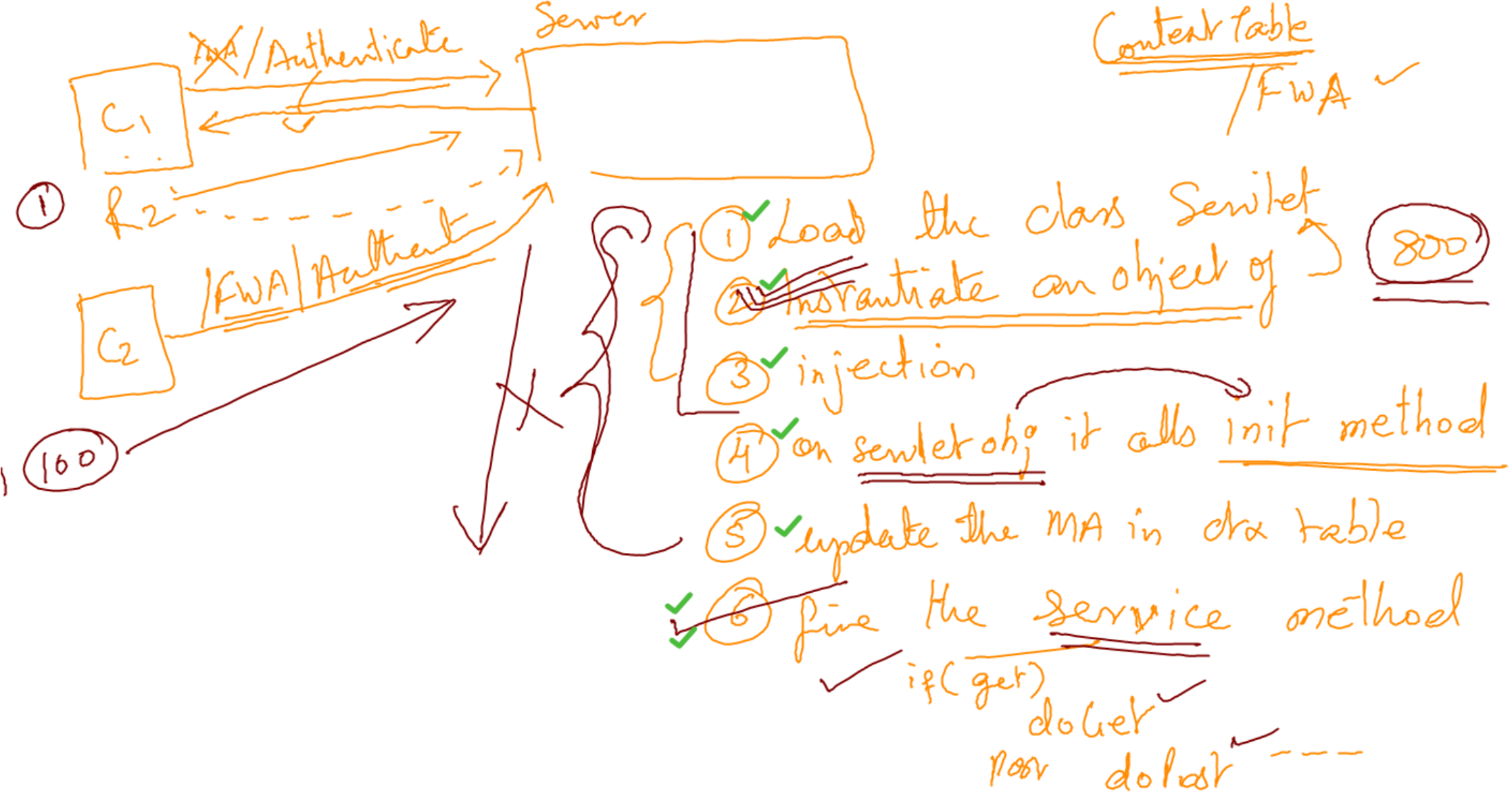Manager

① Deployment   (WAR)

JWS ⟶ Deployer ✓   WEB-INF/classes ⟶ .class

                                          @WebServlet

Checks is the structure of WAR file ✓

① Checks is the structure of WAR file ✓

② [web.xml] ⟵ 100   Context Table /FirstWebApp

	Name	Class	MA	Addin. info	URL
✓	Auth	fi.servlets.Authenticate	80:0	X — —	/Authenti
✓	Category	fi.servlets.Category	0	— —	/Category
✓					

Server

Content table

/FWA ✓

C1

~~FWA~~/Authenticate →

① R2

/FWA/Authenticate

C2

① 100

① ✓ Load the class Servlet

② ✓ instantiate an object of → 800

③ ✓ injection

④ ✓ on servlet obj it calls init method

⑤ ✓ update the MA in the table

✓ ⑥ fire the Service method

if(get)
doGet ✓
now doPost

destroy

✓ ① Web Applic — Stop / Reload / Restart

✓ ② The Web Server — Stop / Rest

③ Threshold time period → [30 minutes]

          ↳ time out

Resources
↓

Servlets GC

(destroy) ← (|FWA)

| F_1 | F_2 | F_3 ---

×

9:00

C_1 → Authen

9:32

9:33 C_2

9:29

10 9:58 9:59

5

6 Service

destroy() GC

Servlet

No Protocol

init
dess...
s...
ge S...
g s c

Generic Servlet

FtpServlet

HTTP

Http Servlet

Smtp S...