

## **Software Systems Planning (Gpo 101)**



**Tecnológico  
de Monterrey**

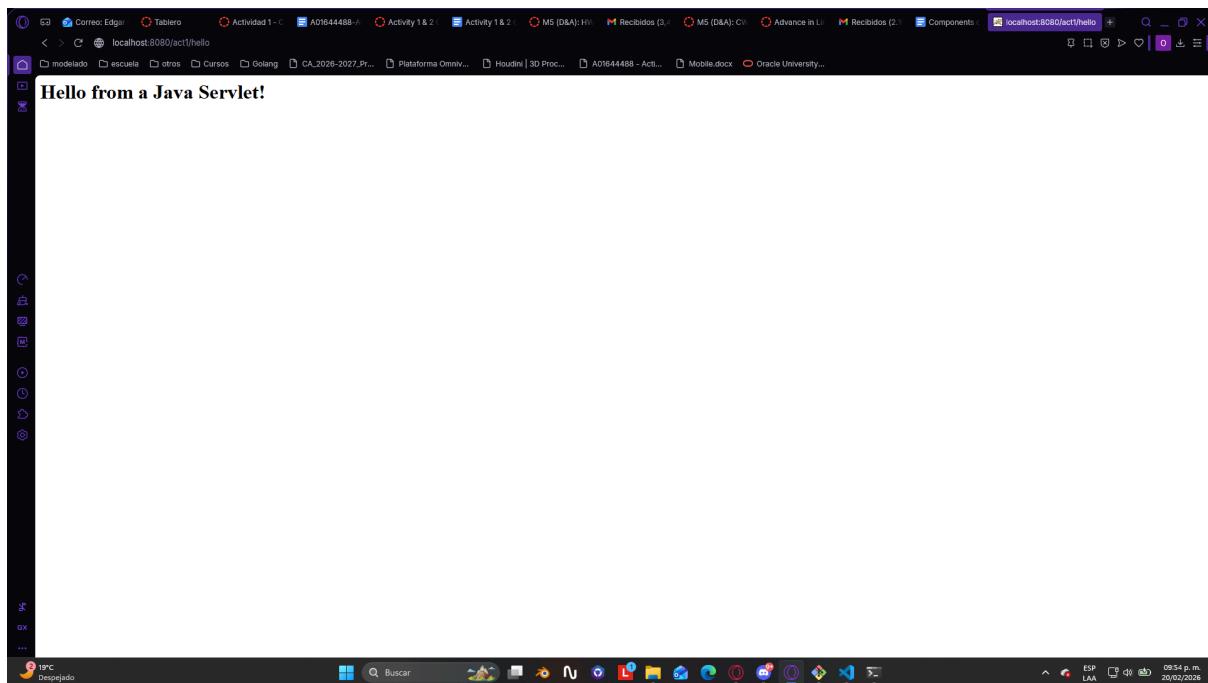
**Actividad 1 - Configuración de ambientes y creación de servlets  
(Adolfo)  
(Gpo 101)**

Edgar Osvaldo Navarro García A01644488

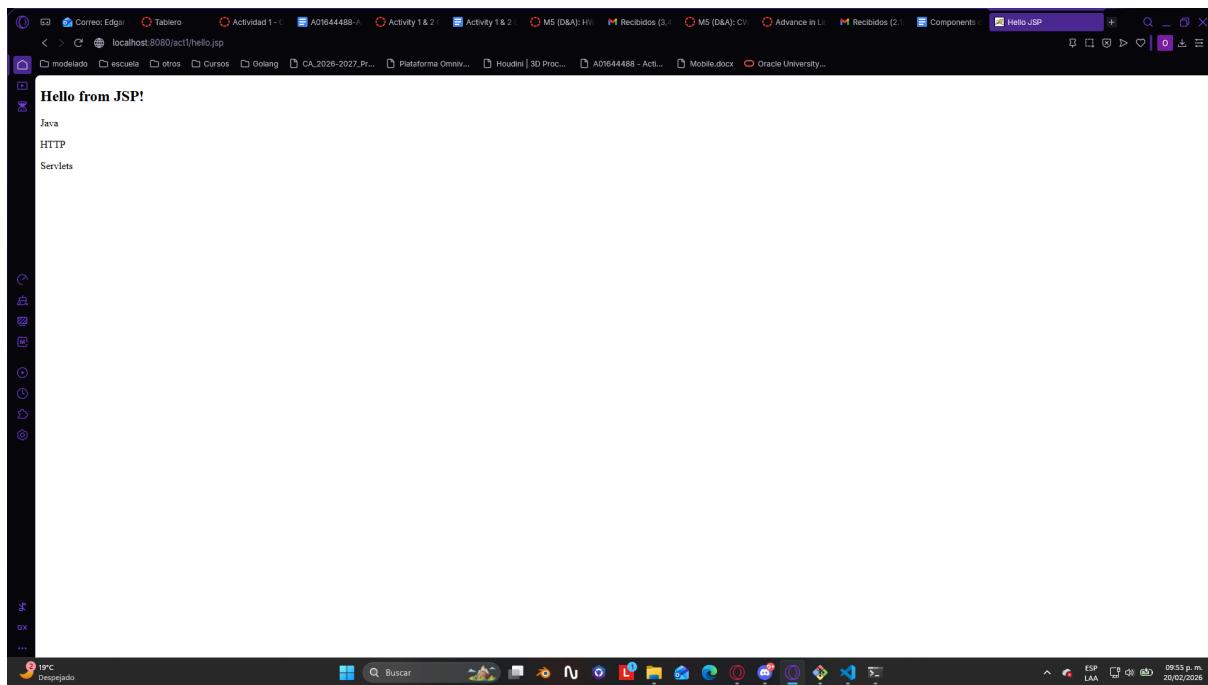
**February 20, 2026**

Adolfo Ernesto Arroyo Alanis

## Part 2 — Create and Run a Java Web Server with Servlets (20 min)

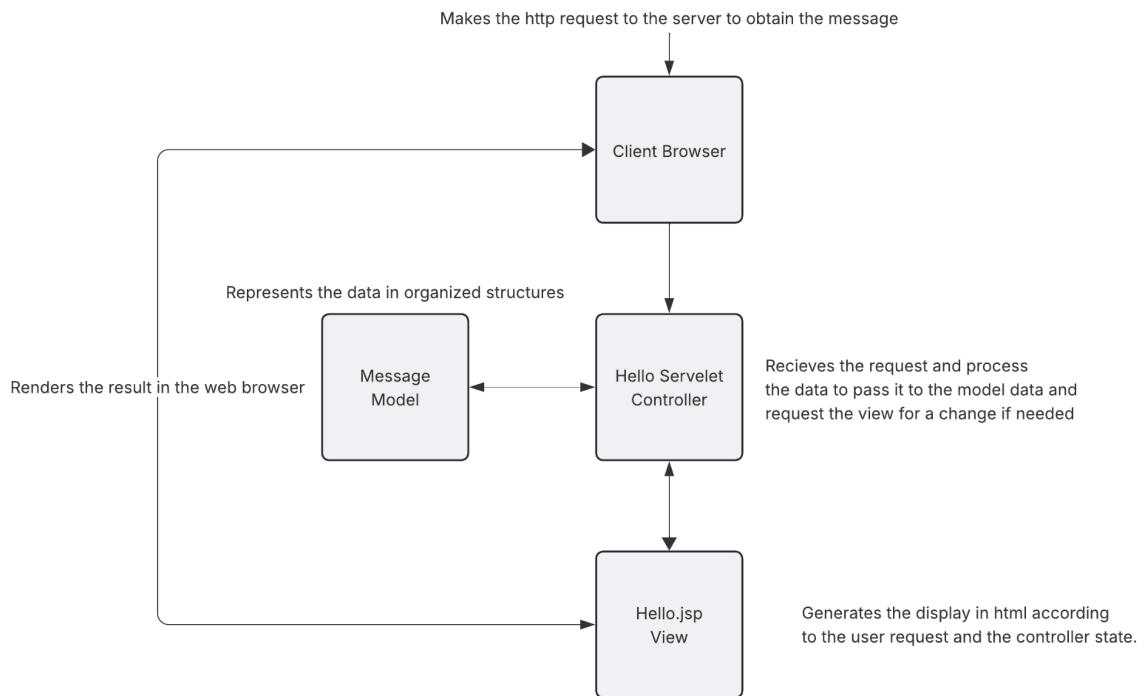


## Part 3 — JSP & JSTL

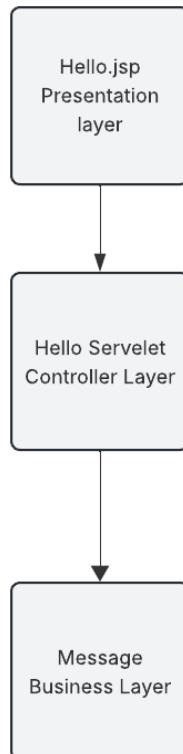


## Part 4 — Modern Web Application Architecture

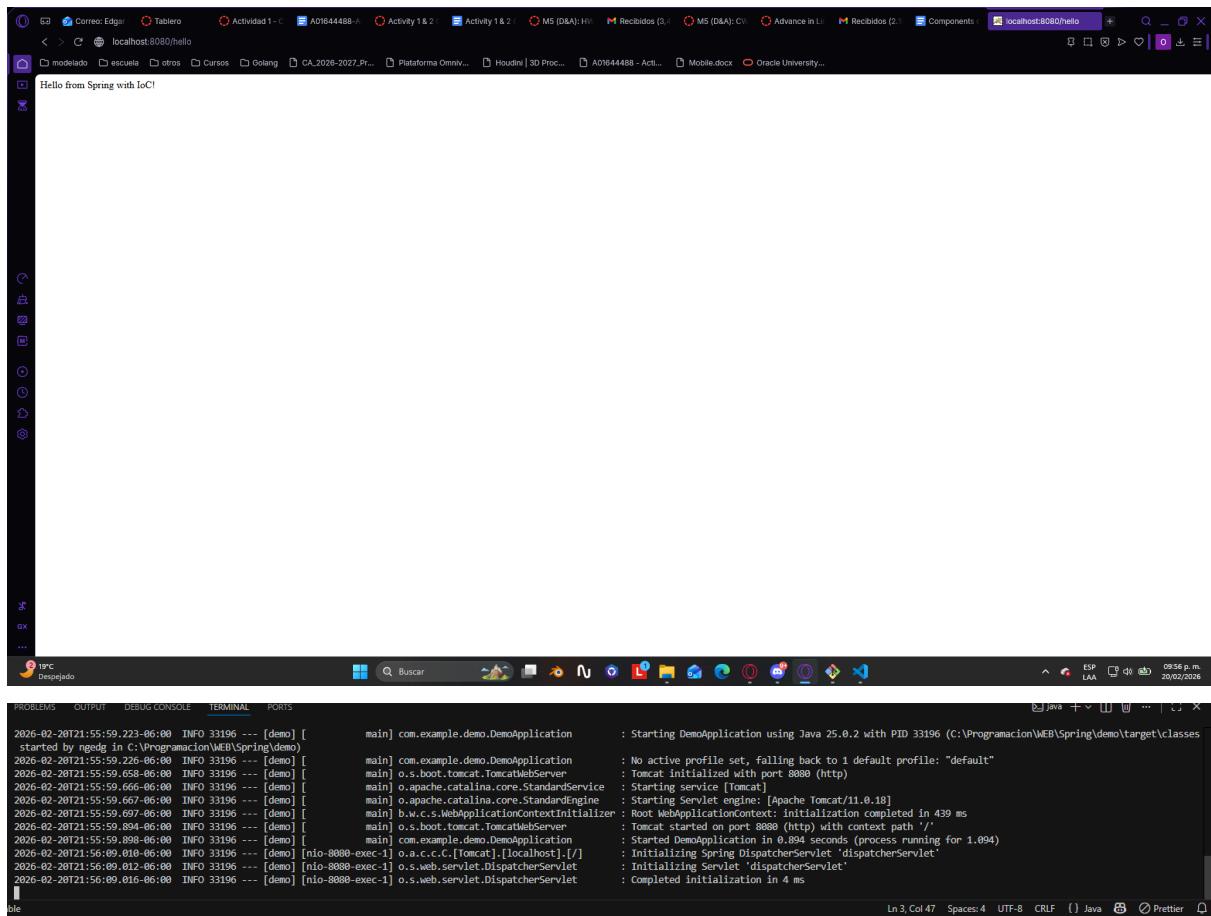
### MVC



## Layered Structure



## Part 5 — Intro to Spring Framework & IoC



```
INFO 33196 --- [demo] [main] com.example.demo.DemoApplication : Starting DemoApplication using Java 25.0.2 with PID 33196 (C:\Programación\WEB\Spring\demo\target\classes started by ngrok in C:\Programación\WEB\Spring\demo)
2026-02-20T21:55:59.223+06:00 INFO 33196 --- [demo] [main] com.example.demo.DemoApplication : No active profile set, falling back to 1 default profile: "default"
2026-02-20T21:55:59.226+06:00 INFO 33196 --- [demo] [main] o.s.boot.web.embedded.TomcatWebServer : Tomcat initialized with port: 8080 (http)
2026-02-20T21:55:59.602+06:00 INFO 33196 --- [demo] [main] o.apache.catalina.core.StandardService : Starting service [tomcat]
2026-02-20T21:55:59.606+06:00 INFO 33196 --- [demo] [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/11.0.18]
2026-02-20T21:55:59.667+06:00 INFO 33196 --- [demo] [main] b.w.c.s.WebappContextInitializer : Root WebApplicationContext: initialization completed in 439 ms
2026-02-20T21:55:59.894+06:00 INFO 33196 --- [demo] [main] o.s.boot.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with context path '/'
2026-02-20T21:55:59.895+06:00 INFO 33196 --- [demo] [main] com.example.demo.DemoApplication : Started DemoApplication in 0.894 seconds (process running for 1.094)
2026-02-20T21:56:09.010+06:00 INFO 33196 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2026-02-20T21:56:09.012+06:00 INFO 33196 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2026-02-20T21:56:09.016+06:00 INFO 33196 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 4 ms
```