

Logging and Performance Filter

Scenario: Create a filter that logs request information and measures request processing time.

Task:

1. Create a servlet filter named `LoggingFilter`
2. Configure it to intercept ALL requests (`/*`)
3. In `doFilter()` method:
 - Log the incoming request (URL, method, remote address)
 - Record the start time using `System.currentTimeMillis()`
 - Pass request to the next filter/servlet using `chain.doFilter()`
 - After processing, calculate and log the total processing time
 - Log the response status (if available)
4. Test with multiple servlets to see the logging in action

Hints:

- Use `HttpServletRequest.getRequestURI()` to get the URL
- Use `System.currentTimeMillis()` for timing
- You'll need to wrap the response to access status codes