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Project name: Private calculator

This project is a simple private calculator project where I used java servlets, filters for authentication and etc.

In short, the structure will look like this:

- Login module
- Authentication filters and sessions
- Calculator

In the project I will use filters for authentication in the login module.

So, login.html is the entry point of our application where the user will provide the login id and password for authentication.

LoginServlet.java is used to authenticate the request from the client for login.

When the client is authenticated, it's forwarded to calculatorView.jsp.

LogoutServlet is invoked when a client clicks on the Logout button in any of the JSP pages.

Also I created logging and authentication servlet filter classes(Request Logging Filter and AuthenticationFilter) and configure them in web.xml file.

So, the structure of the project looks like that:
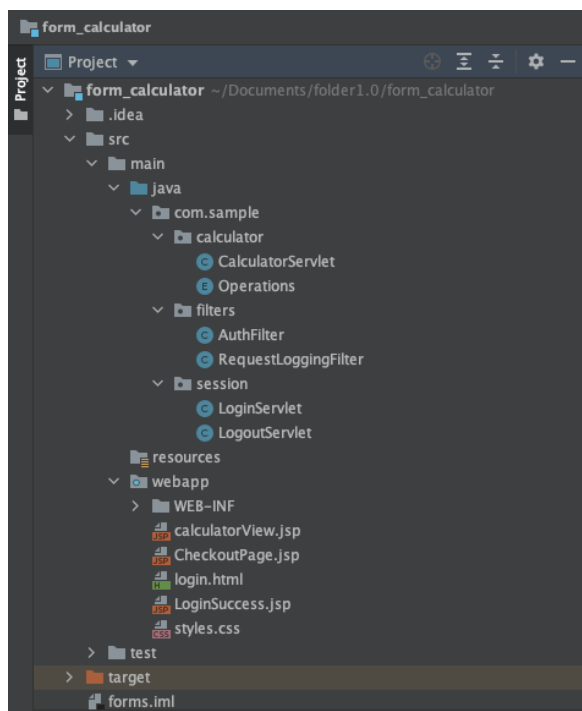
Project looks like that:
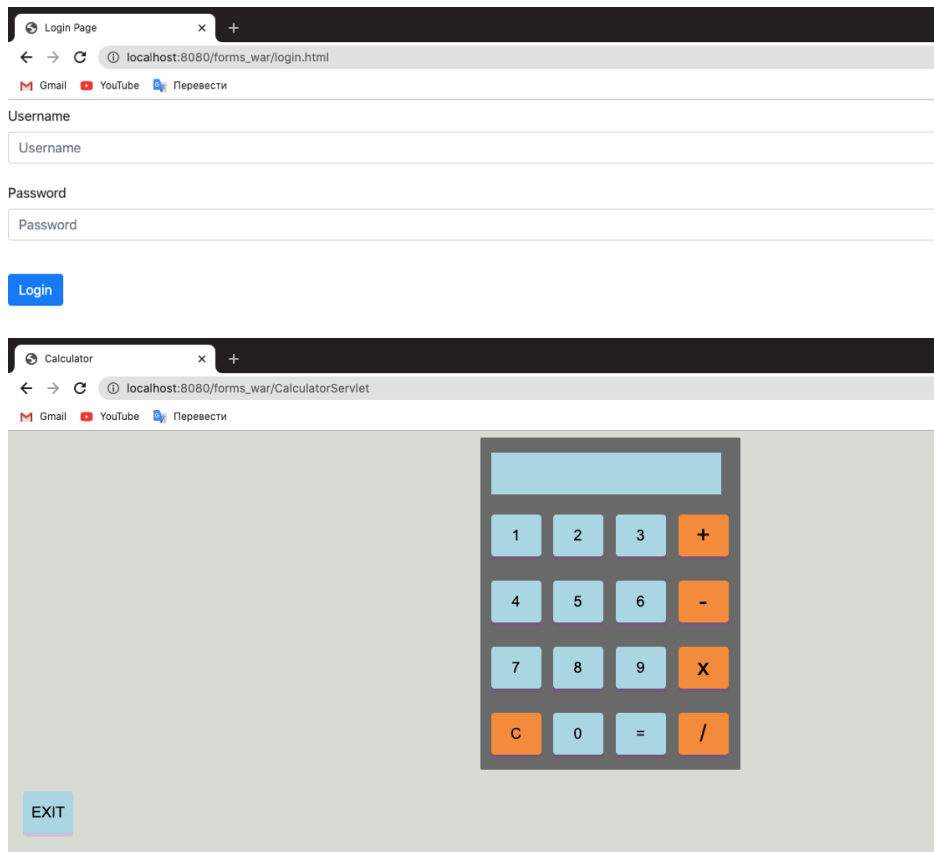
Servlet Filters are pluggable java components that we can use to intercept and process requests before they are sent to servlets and response after servlet code is finished and before container sends the response back to the client.

So, in LoginServlet.java we use doFilter(ServletRequest paramServletRequest, ServletResponse paramServletResponse, FilterChain paramFilterChain) – This is the method invoked every time by container when it has to apply filter to a resource. Container provides request and response object references to filter as argument. FilterChain is used to invoke the next filter in the chain. This is a great example of Chain of Responsibility Pattern.