



About Us



- About Us
 - Rakesh Kachhadiya
 - Master work, Univeristy of Freiburg (Germany)
 - Emmanuel Benoist
 - Professor, Bern University of Applied Sciences (Swizerland)







- Enterprise Security API
 - OWASP Project
 - Support for : Java, Dot NET, Classic ASP, PHP,
 ColdFusion, Python, Objective C, Tuby, C, Perl, ...
- Groups all security features into one library:
 - Authentication, Authorization
 - Access control, logging and intrusion detection
 - Validation, decoding, encoding (for HTML, XML, SQL, Ldap, ...)
 - Crypto functionalities

Java Server Faces



- JSF: Advantages
 - Model View Controler
 - Controler: Faces Servlet
 - View: xhtml files
 - Component tree
 - Model: Java files using notations
 - Separation of layers
 - Front End: xhtml and components
 - Back End: Java
 - Libraries with reusable components
 - Apache, RichFaces, Oracle, etc...
 - Concepts like: Validators and Converters

Integrating ESAPI in JSF



- At different levels
 - In the Model
 - Authorization, Access control, logging, SQL/LDAP/XML/encoding, ...
 - In the View
 - Create Validators
 - In the Controler (in the Faces Servlet)
 - Enhancing HTTP
 - HTML Encoding

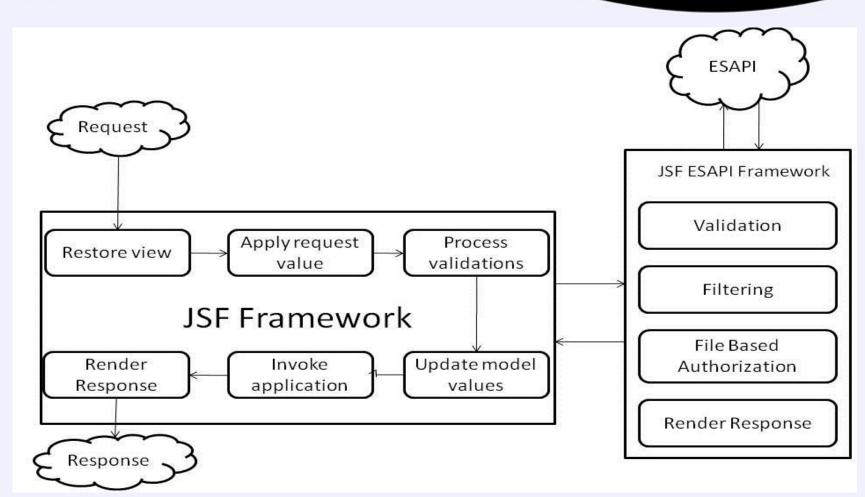
Project goals



- Provide a library for integrating ESAPI in JSF
 - Reduces the work for the developers
 - Secure implementation
- Adapt ESAPI to JSF "culture"
 - Provide out of the box tools
 - Easy to integrate in a project
 - Can be used by simple developers

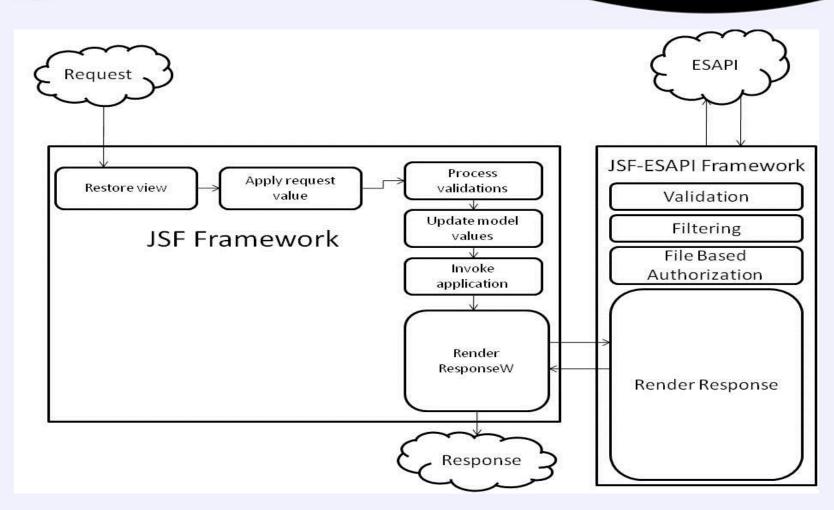
Architecture





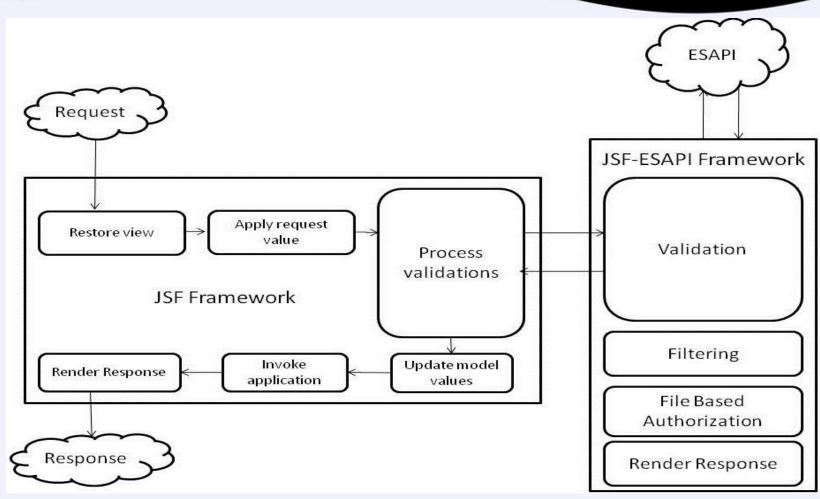
Demo1: Render Response





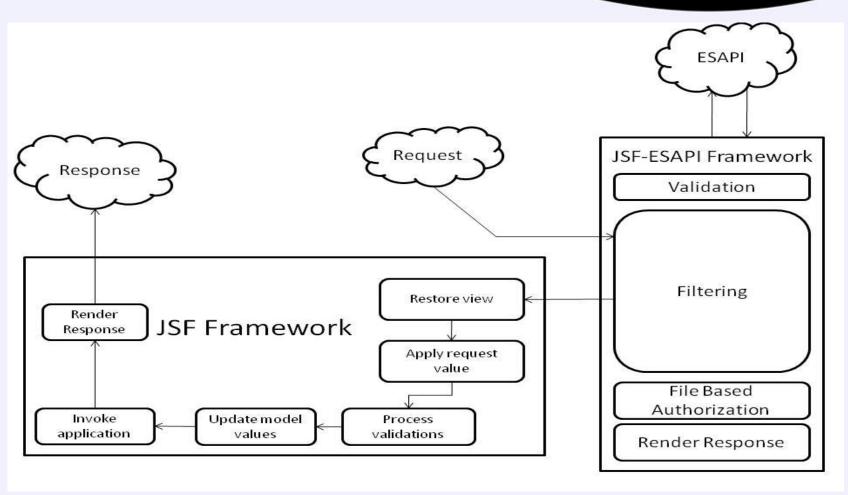
Demo2: Validation





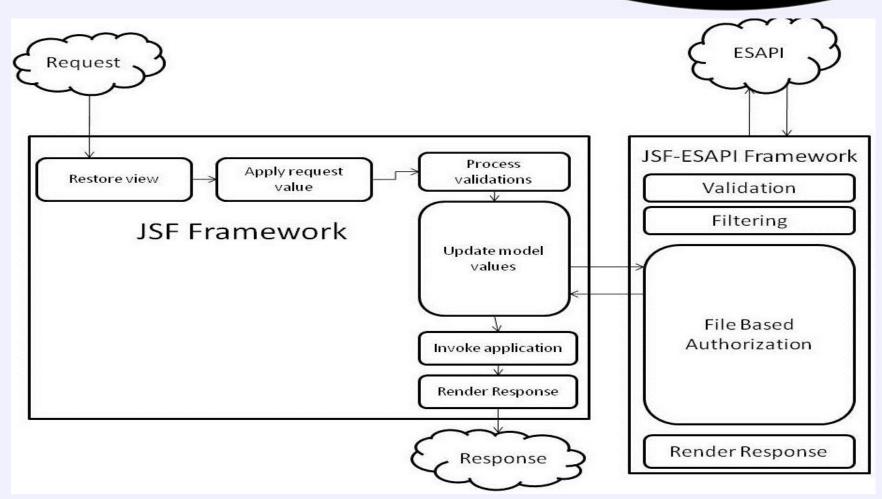
Demo3 : Filtering





Demo4: File based Authorization





Conclusion



- Integrate ESAPI into JSF
 - It will help programmers
 - Makes security "invisible"
- Known issues
 - Access Control: prevent updating of the model
 - CSRF: make it transparent for the programmer
- Need feedback from security experts
 - What are the common vulnerabilities for JSF

Questions



Feedback for OWASP



- Contacts us:
 - Emmanuel.Benoist (AT) bfh.ch
 - RakeshKachhadiya (AT) gmail.com

QUESTIONS?