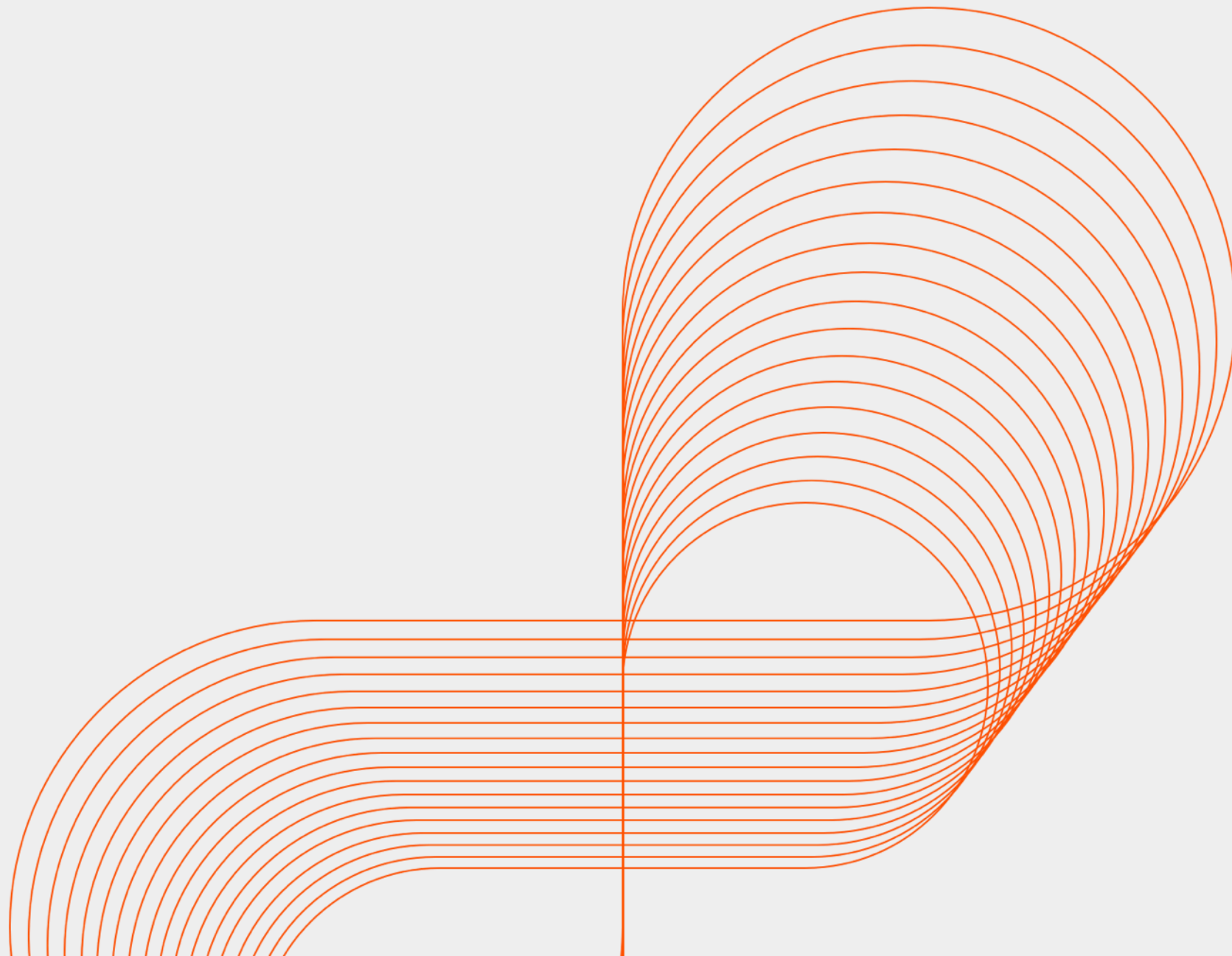




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Listeners

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Agenda

- Listeners

Understanding listeners

- A web application, its servlets and its various objects (request, session etc) have a well defined lifecycle.
- A programmer can choose to monitor the lifecycle of these elements through the various listener interfaces available in the API.
- Listeners are objects which are notified when a specific event occurs in the lifecycle of these elements.

Servlet context listener

- `javax.servlet.ServletContextListener` interface can be used to monitor the initialization and destruction of the servlet context object.
- There is only one servlet context object per web application per jvm.
- Methods
 - `contextInitialized(ServletContextEvent)`
 - `contextDestroyed(ServletContextEvent)`

Servlet context attribute listener

- `javax.servlet.ServletContextAttributeListener` is used to monitor the addition, removal and replacing of servlet context attributes
- Methods
 - `attributeAdded(ServletContextAttributeEvent)`
 - `attributeRemoved(ServletContextAttributeEvent)`
 - `attributeReplaced(ServletContextAttributeEvent)`

Http session listener

- `javax.servlet.http.HttpSessionListener` is used to monitor the creation and destruction (invalidation) of a client's http session.
- Methods
 - `sessionCreated(HttpSessionEvent)`
 - `sessionDestroyed(HttpSessionEvent)`

Http session attribute listener

- `javax.servlet.http.HttpSessionAttributeListener` is used to monitor addition, removal and replacing of attributes in a http session object.
- Methods
 - `attributeAdded(HttpSessionBindingEvent)`
 - `attributeRemoved(HttpSessionBindingEvent)`
 - `attributeReplaced(HttpSessionBindingEvent)`

Http session binding listener

- `javax.servlet.http.HttpSessionBindingListener` can be implemented by an object which needs a notification whenever it is bound (added) and unbound (removed) from a http session object
- Methods
 - `valueBound(HttpSessionBindingEvent)`
 - `valueUnbound(HttpSessionBindingEvent)`

Request listener

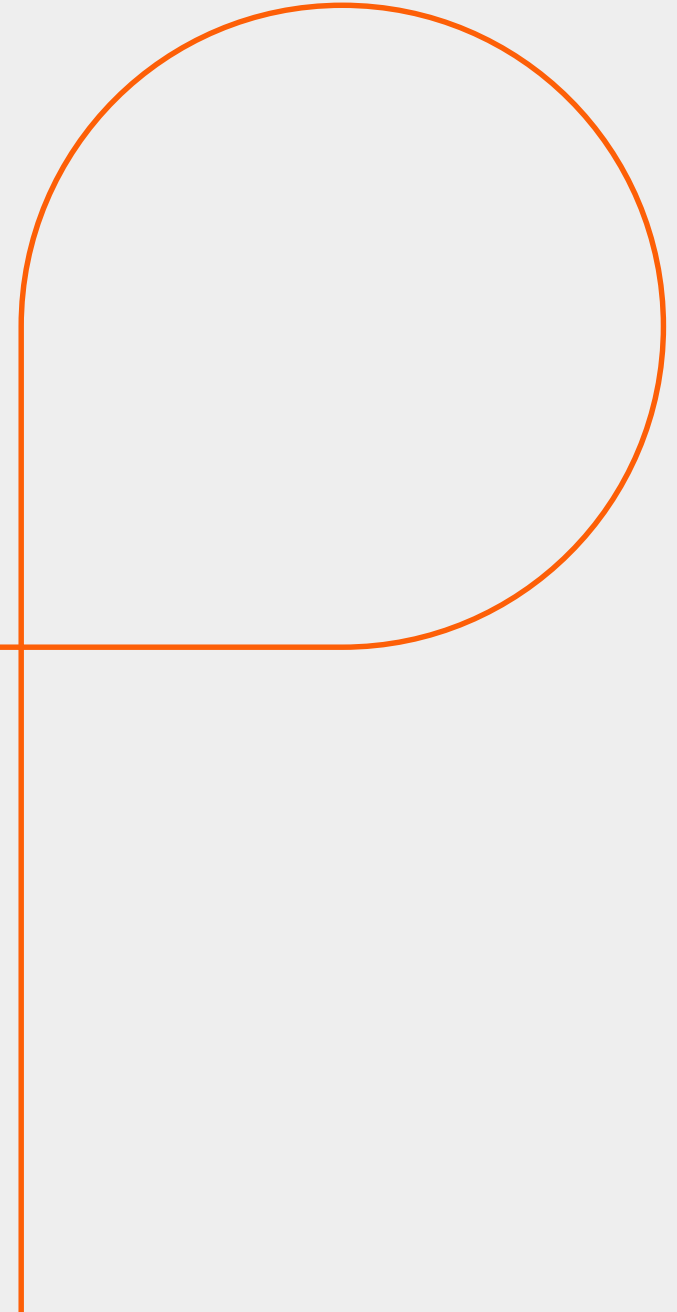
- `javax.servlet.ServletRequestLisener` is used to monitor all requests received by a web application
- Methods
 - `requestInitialized(ServletRequestEvent)`
 - `requestDestroyed(ServletRequestEvent)`

Summary:

- With this we have come to an end of our session, where we discussed :
 - Various listeners
 - Servlet context listeners
 - Session listeners
 - Request listeners etc.

Appendix

Thank You





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Thank you!

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