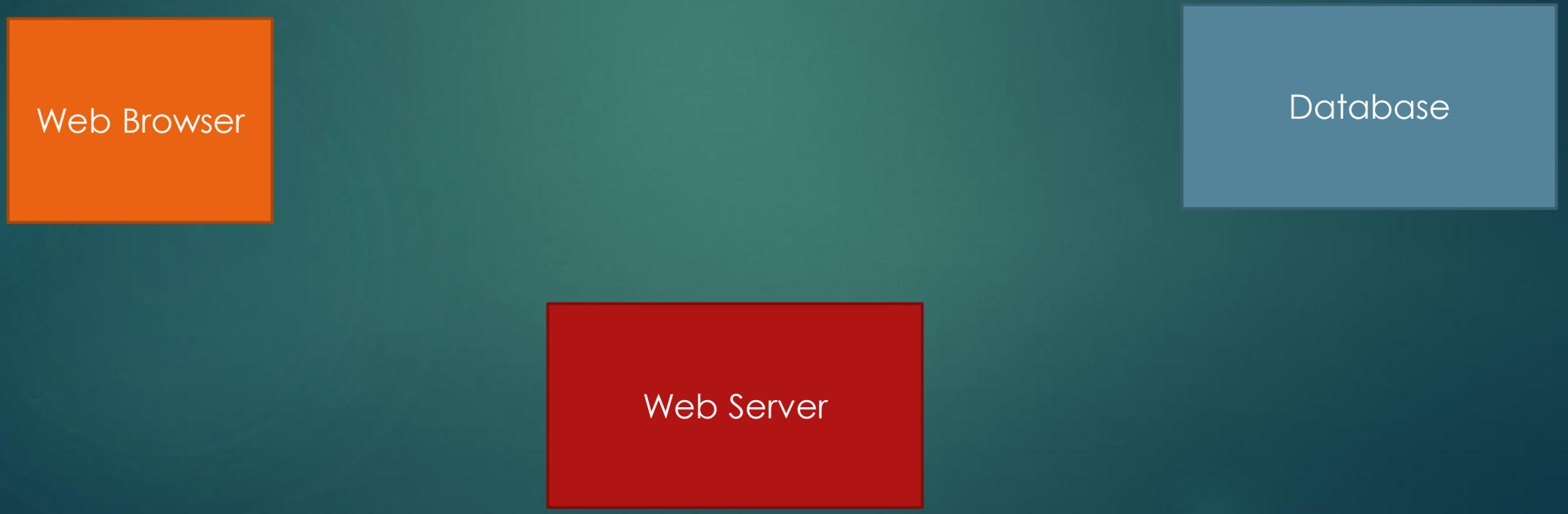
What are Web Applications?

What are JSP and Servlets?

By Eslam Khder

What are Web Applications?

A web site where the HTML pages are generated dynamically
Based on the user's actions



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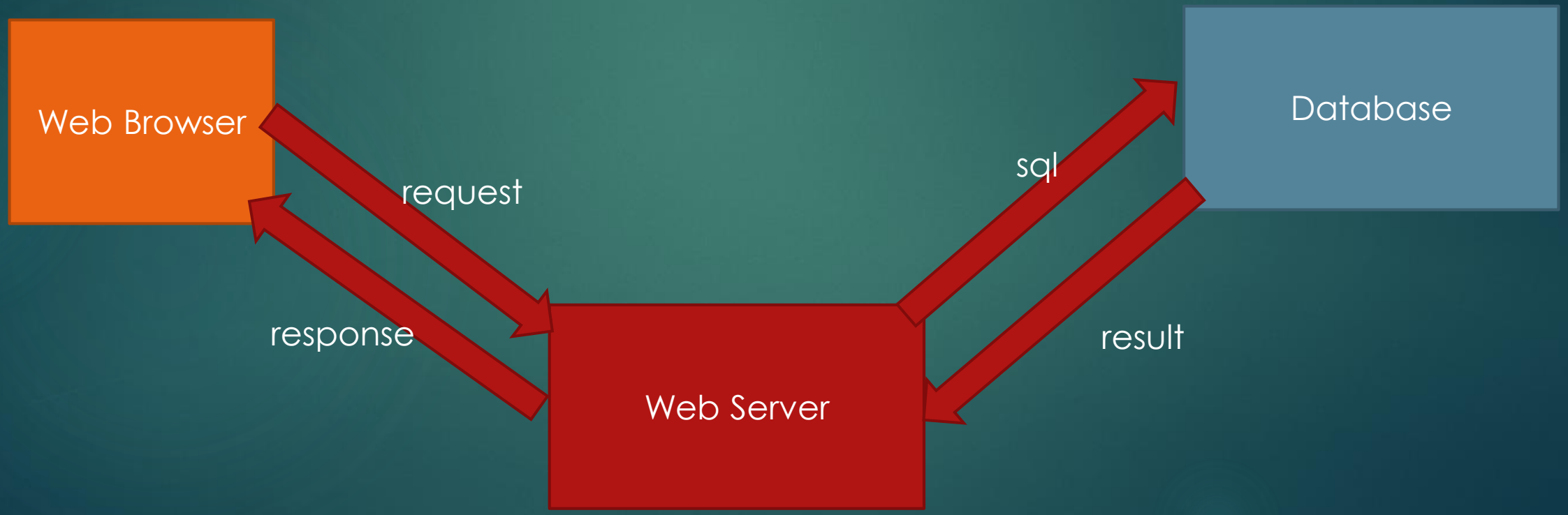

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What are Servlets and JSPs?

Java code that runs on the web server

Reads user's actions … normally from HTML Form

Performs the work

Returns an HTML page that is generated dynamically

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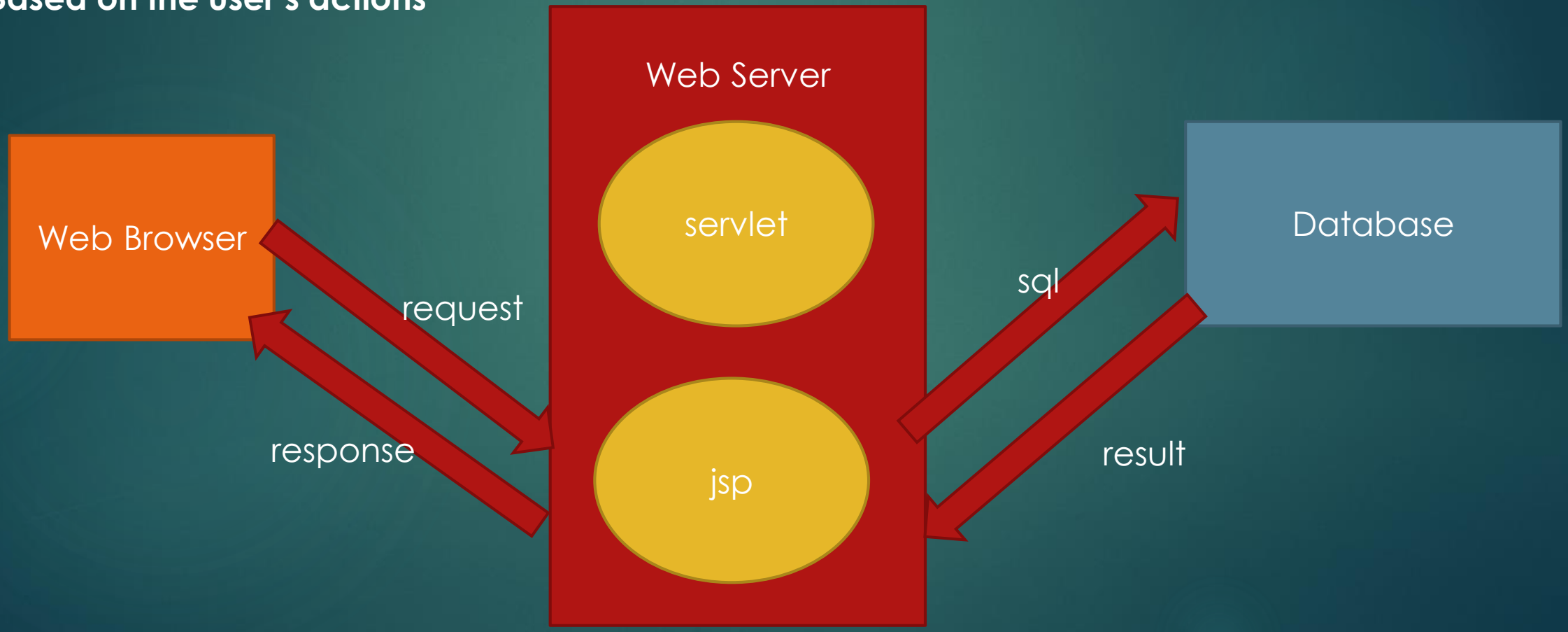

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you need :

- Java Application Server Java Application Server - Tomcat
- Java Integrated Development Environment (IDE) (IDE) - Eclipse

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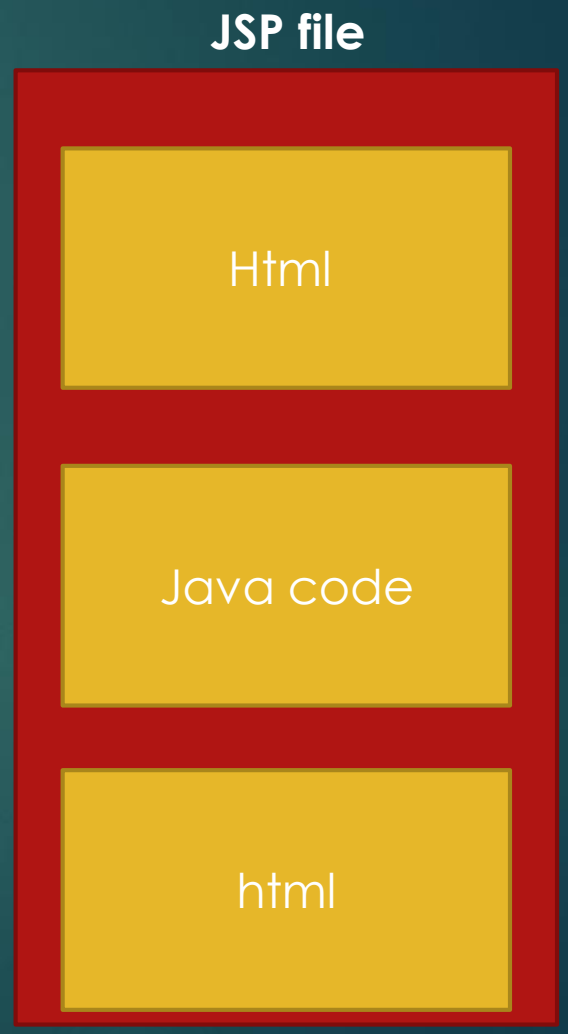
What is a JSP file?

An HTML page with some Java code

Include dynamic content from Java code



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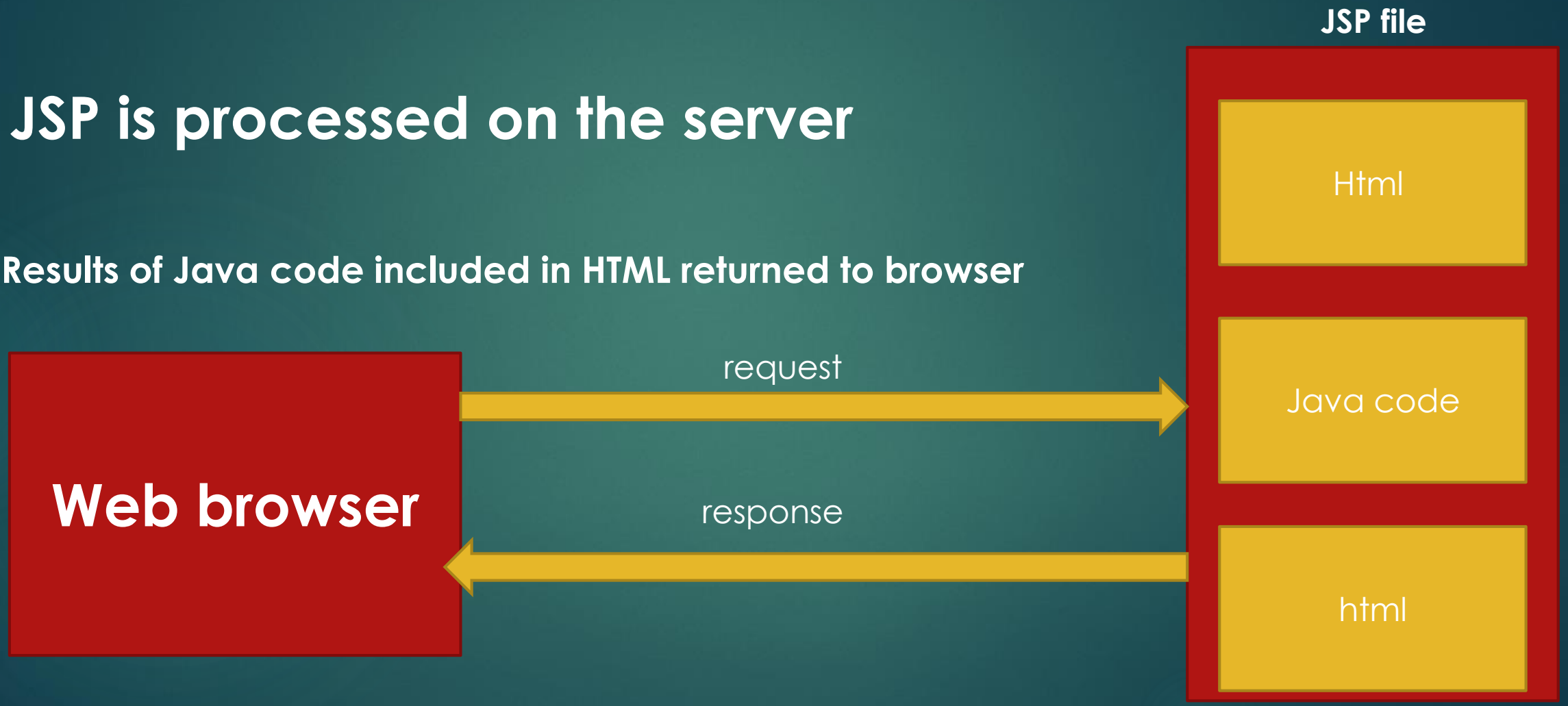
Where is the JSP processed?

JSP is processed on the server

Results of Java code included in HTML returned to browser



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Example to print Date with jsp

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JSP Scripting Elements

Element	Syntax
JSP Expression	<%= some Java expression %>
JSP Scriptlet	<% some Java code: 1 to many lines %>
JSP Declaration	<% variable or method declaration %>

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<%= new String("Eraa Soft") %>

<%= 5*10 %>

<%= 5*10 %>

Insert 1 to many lines of Java code To include content in the page use: out.println(…)

```
<%
        many code
 %>
```

```
<%
for (int i=1; i <= 10; i++) {
out.println("nice");
}
%>
```

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variable or method declaration

```
<%!
        int id = 5;
 %>
```

```
<%!
void start(){
    return “start”;
 }
%>
```

<% start() =%>

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JSP and java class

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1. Create Java class

2. Call Java class from JSP

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HTTP Request / Response

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Including Files

</ jsp:include page=" .html " >

<jsp:include page=".jsp"/>

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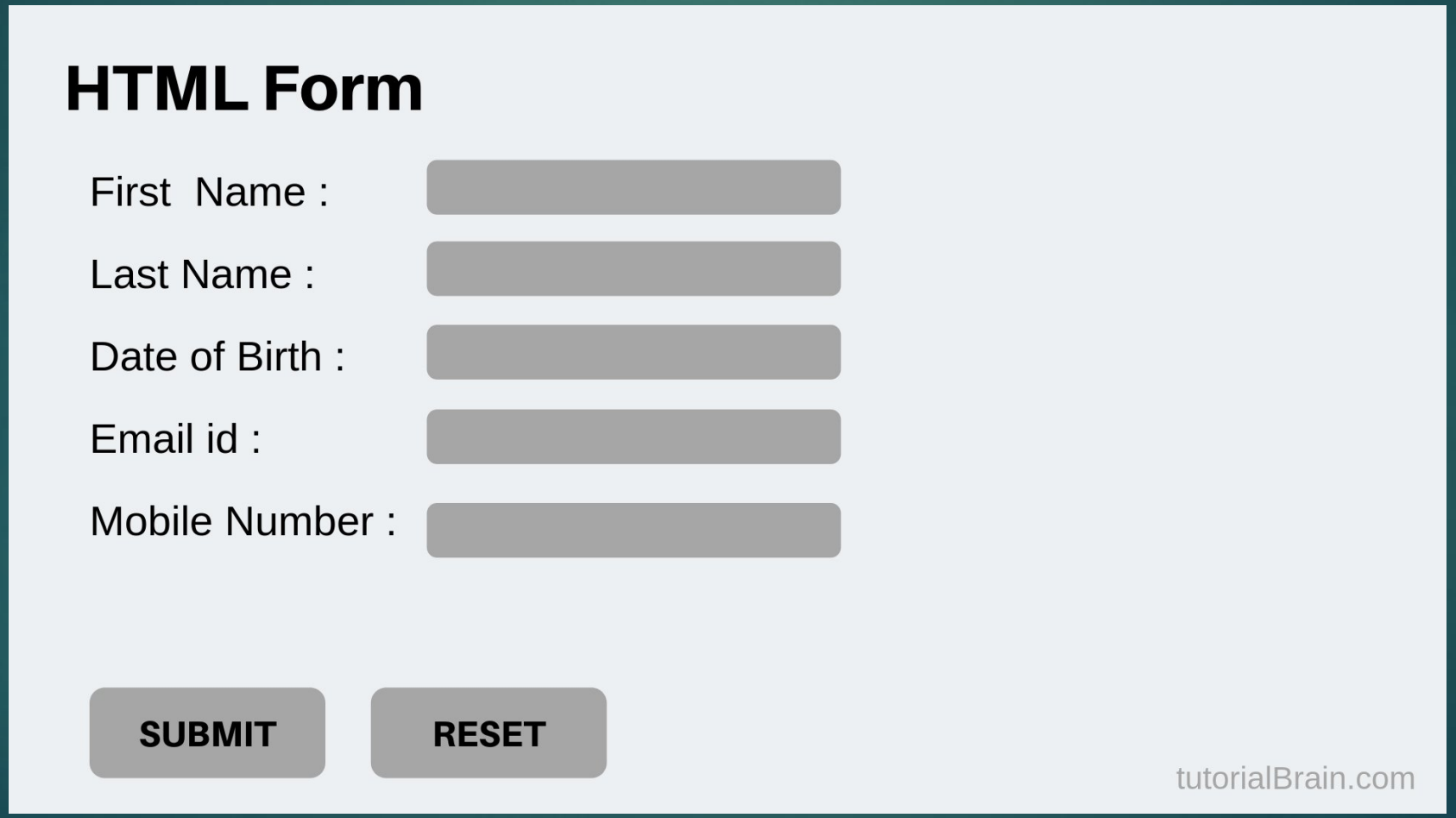
FORMS WITH JSP



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