Java Web Fundamentals

Introduction

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Overview

- **Why do you need to understand Servlets and JSPs?**

- **Tools used during this course**

- **Creating web applications**

- **What's in the rest of the course**

Java Web Programming

- **Java web typically made up of Servlets and Java Server Pages**
    - Many frameworks, e.g. Struts build on top of these specifications
    - There are other aspects such as Filters and Listeners

Maven

```
<project>
    <groupId>com.mantiso</groupId>
    <artifactId>mvnblog</artifactId>
    <version>1.0-SNAPSHOT</version>
    <packaging>war</packaging>
</project>
```

IDE – IntelliJ Idea
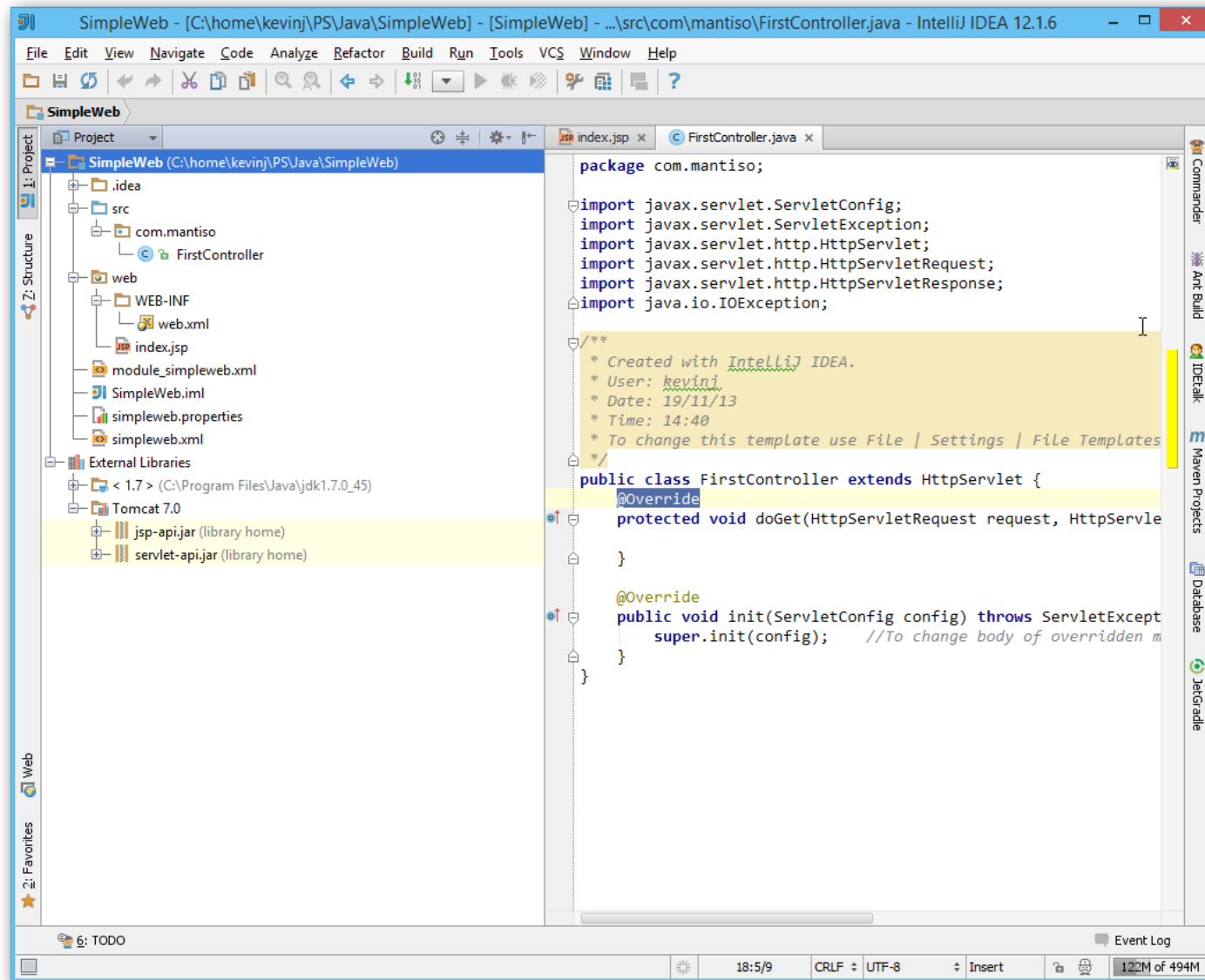
IDE-Eclipse
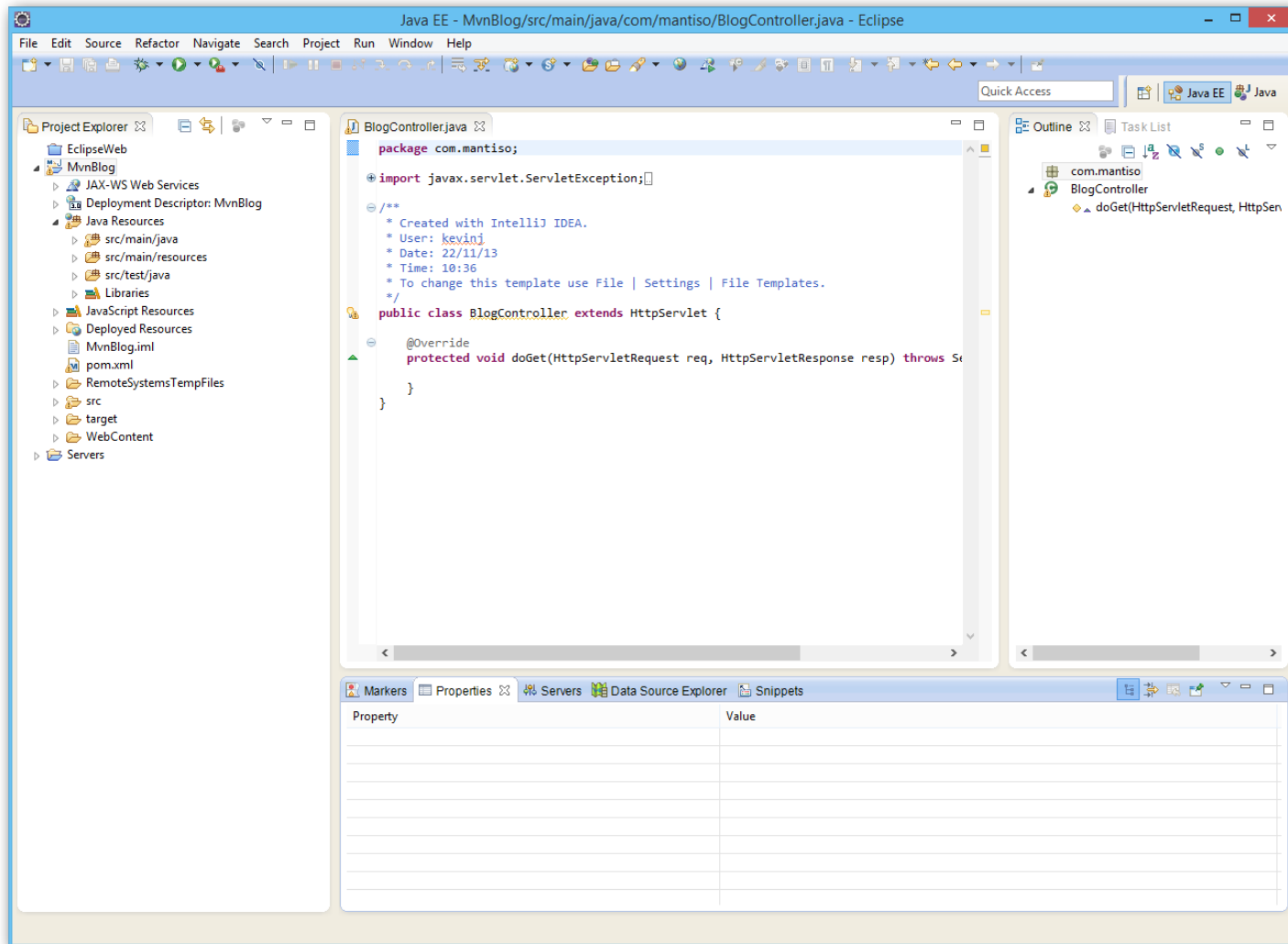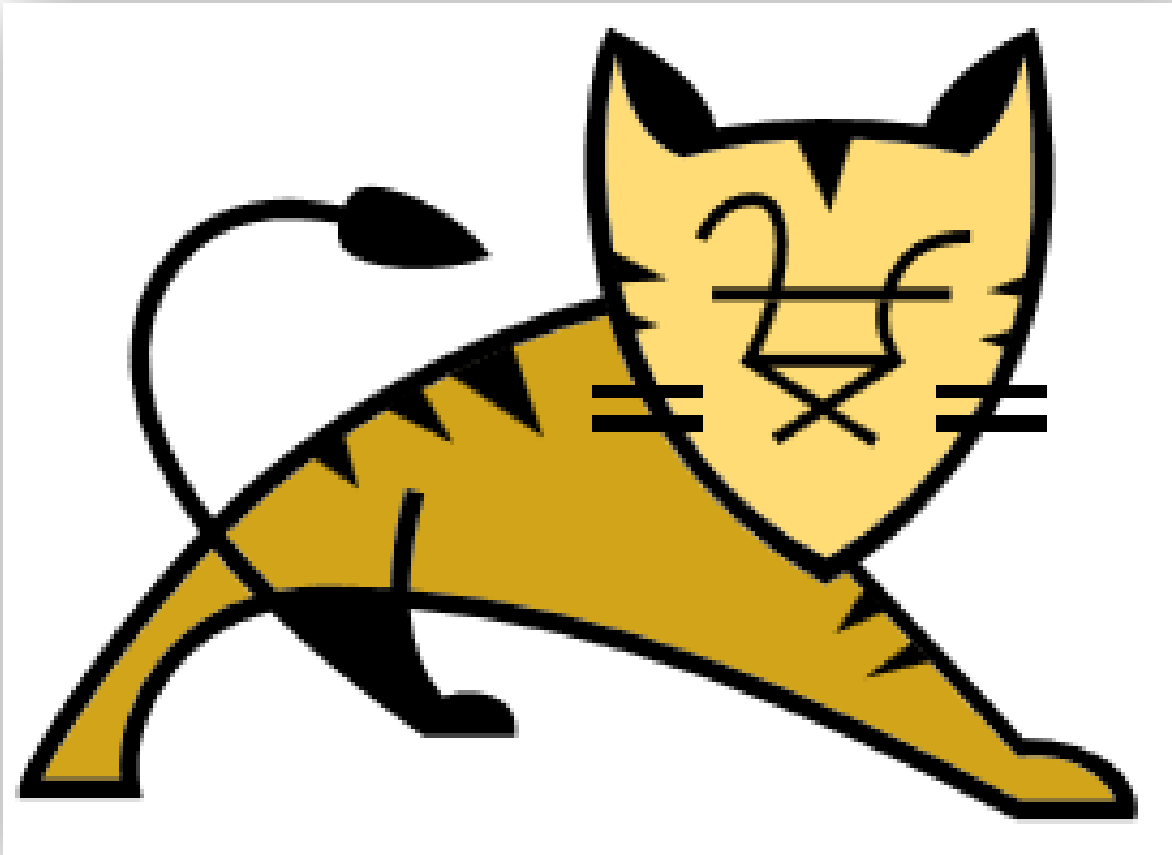
Web Server

Deploying To A Web Server

- **Unit of deployment is called a 'web application'**
  - A web application is a deployable unit of content and configuration
  - Request routed to application using **URL base**
  - Web applications may contain static content
  - Web applications may contain dynamically generated content
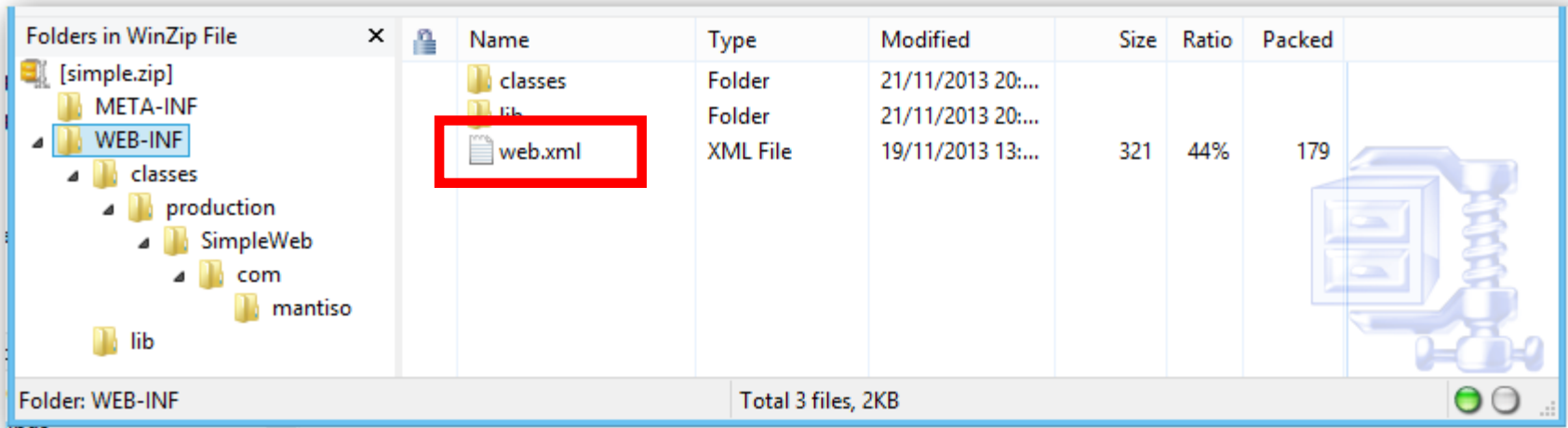
http://someserver/myapp/endpoint

Deployment

- **Java web applications have a standard structure**
  - Applications can be deployed by simply copying files

- **Can also deploy as a .war file**
  - **W**eb **Ar**chive

What's in the Rest of the Course

- **Servlets**

- **JSP**

- **Expression Language**

- **Java Standard Tag Library**

- **Filters**

- **Listeners**

- **Asynchronous Programming**