**Lab 1**

Setting Up a J2EE Development Environment and Building a Simple Servlet Application Using GitHub, Eclipse, Apache Tomcat, MySQL, and Podman

1. **Setting up the Development Environment:**

GitHub Desktop:

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Eclipse:

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TomCat Server:  
  
A screen shot of a computer screen

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A screenshot of a computer

Description automatically generated

MySQL:

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WSL and Podman:

Setting WSL version to WSL 2

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Installed Ubuntu as preferred Linux distribution

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A screen shot of a computer

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Podman installation successful – Performing version check:

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**2. Creating and Testing a Simple Servlet Application:**

**Project Setup:  
  
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**Welcome Servlet:**

**A computer screen shot of a program

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**Output:**A blue and white rectangle

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**3. Using GitHub for Version Control:**

**Created Repository:**

Link:[**https://github.com/samruddhi1499/SimpleServletApp.git**](https://github.com/samruddhi1499/SimpleServletApp.git)

**Pushed Code:**

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**Branching:**

Changed the Welcome Message:

**A screen shot of a computer program

Description automatically generated**

Output:



Pushing on new branch:

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Push Completed successfully to new branch:A screenshot of a computer

Description automatically generated

**4. Deploying the Servlet Application with Podman:**

Creating Image of TomCat Server and creating container while performing port forwarding:

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Copying Servlet Project to container and checking logs:

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Checking Pod Status

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Testing using CURL command in WSL environment:

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Testing in Browser:

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Note: Welcome message was changed to perform GitHub branching.