

Name: Run Lin  
CS636 HW4

1. a.)

At first when I only did "runOracleScript.sh createdb.sql", there was an error in building the maven jar file. Then I reloaded all 3 of the databases, and then the maven jar was successfully built. No issue in running SystemTest in all 3 databases either. Typescript in /cs636/hw4 directory.

1. b.)

The most different .java files in Domain is the MenuSize.java and MenuTopping.java, pizza2 contains several imports not in pizza1 for example:

```
import java.io.Serializable;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Table;
import javax.persistence.TableGenerator;
import javax.persistence.UniqueConstraint;
```

And many other java files have included "Object-relational Mapping" like this:

```
@Entity(name = "MenuSize")
@Table(name="MENU_SIZES", uniqueConstraints =
@UniqueConstraint(columnNames="SIZE_NAME"))

@Entity(name = "MenuTopping")
@Table(name="MENU_TOPPINGS", uniqueConstraints =
@UniqueConstraint(columnNames="TOPPING_NAME"))
```

1. c.)

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class AdminService {
    @Autowired
    private DbDAO dbDAO;
    @Autowired
    private AdminDAO adminDAO;
    @Autowired
    private MenuDAO menuDAO;
    @Autowired
    private PizzaOrderDAO pizzaOrderDAO;
```

1. d.)

In the AdminService.java, many methods have included .startTransaction() and rollBackAfterException();

In AdminService.java, markNextOrderReady() method, there is also a new ServiceException, and commitTransaction() / rollBackAfterException();

In StudentService.java, new imports are included:

```
import cs636.pizza.dao.DbDAO;
import cs636.pizza.dao.MenuDAO;
import cs636.pizza.domain.MenuSize;
import cs636.pizza.domain.MenuTopping;
import java.util.HashSet;

// new implementation for TreeSet
Set<String>sizeStrings = new TreeSet<String>();
Set<String>toppingStrings = new TreeSet<String>();

// new Object-relational Mapping for class
@Service
public class StudentService {
    @Autowired
    ...
}
```

2. a.)

```
GET cs636/ch02email/web/index.html HTTP/1.1
POST cs636/ch02email/web/index.html HTTP/1.1
```

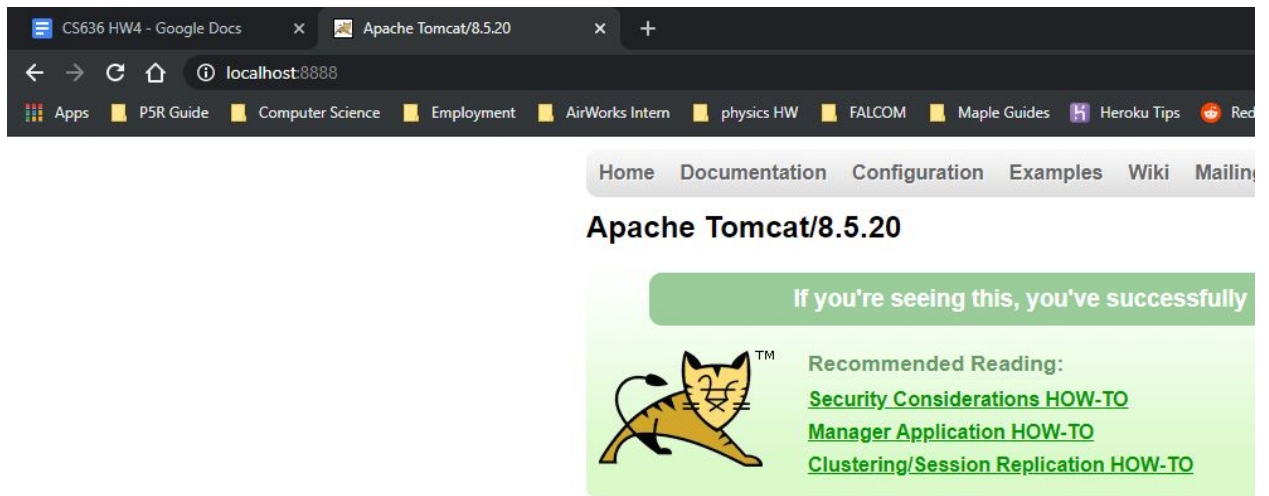
2b.)

```
name="email"          , email = joel@murach.com
name="firstName"      , firstName = Joel
name="LastName"       , lastName = Murach
These values are in the post method request.
```

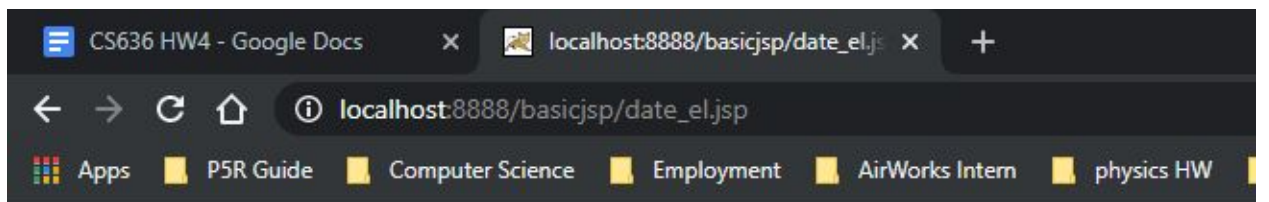
2c.)

```
GET cs636/ch02email/web/styles/main.css HTTP/1.1
POST cs636/ch02email/web/index.html HTTP/1.1
```

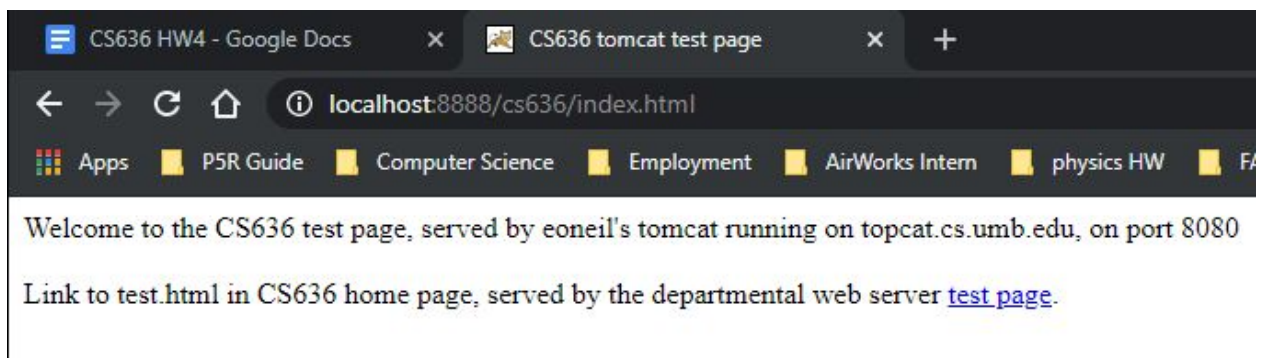
3. a.)



3b.)

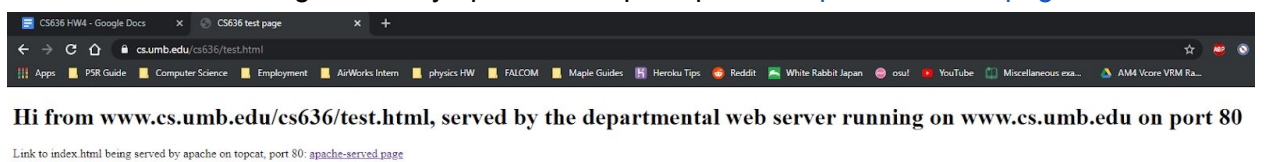


**Today's date is Tue Apr 21 20:43:34 EDT 2020**



“Hi from [www.cs.umb.edu/cs636/test.html](http://www.cs.umb.edu/cs636/test.html), served by the departmental web server running on [www.cs.umb.edu](http://www.cs.umb.edu) on port 80

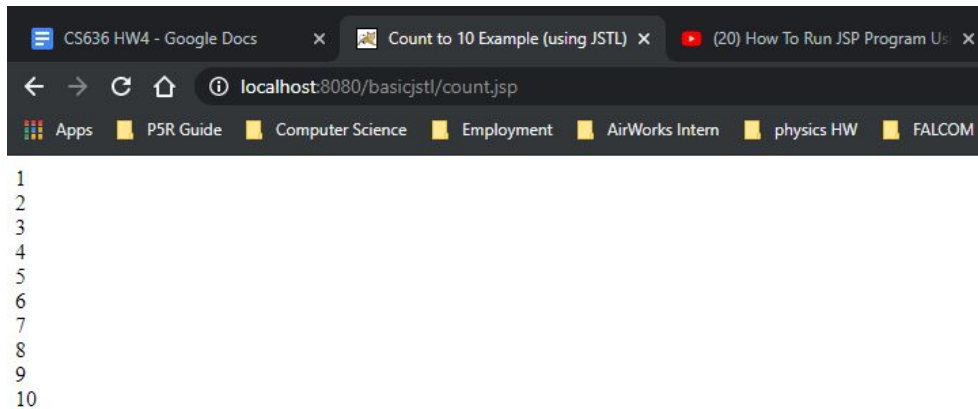
Link to index.html being served by apache on topcat, port 80: [apache-served page](#)”



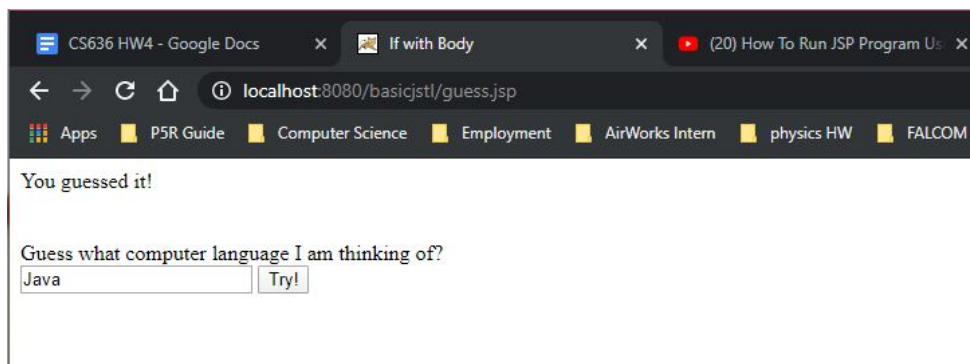
4. a.)  
Issue with tunnels initially.

My solution for now is cp the directory “basicjstl” and “basicjstl\_broken” onto my native Windows 10 Operating System, and host Tomcat locally (natively) on my computer to run it.

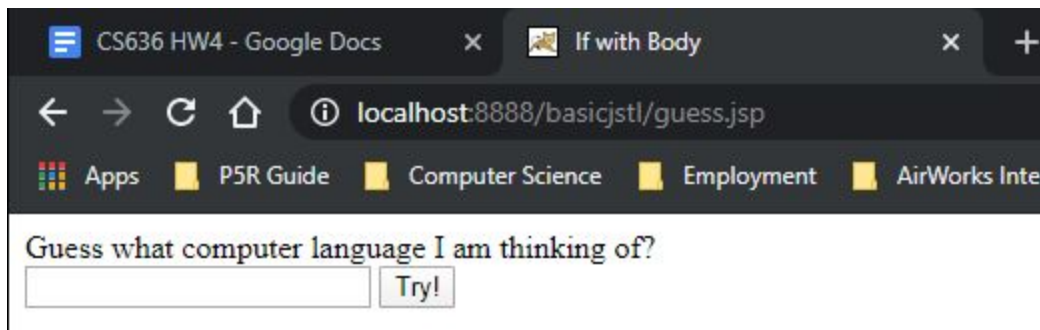
**count.jsp:**



**guess.jsp:**



\*(UPDATE): now #3 is running properly on tomcat server, I no longer have any more issues.



4b.)

basicjstl\_broken/count.jsp:

CS636 HW4 - Google Docs x HTTP Status 500 - Internal Server Error x (20) How To Run JSP Program Using JSP x

localhost:8080/basicjstl\_broken/count.jsp

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## HTTP Status 500 - Internal Server Error

**Type** Exception Report

**Message** /count.jsp (line: [15], column: [0]) Unterminated [<c:forEach] tag

**Description** The server encountered an unexpected condition that prevented it from fulfilling the request.

**Exception**

```
org.apache.jasper.JasperException: /count.jsp (line: [15], column: [0]) Unterminated [<c:forEach] tag
    org.apache.jasper.compiler.DefaultErrorHandler.jspError(DefaultErrorHandler.java:41)
    org.apache.jasper.compiler.ErrorDispatcher.dispatch(ErrorDispatcher.java:291)
    org.apache.jasper.compiler.ErrorDispatcher.jspError(ErrorDispatcher.java:97)
    org.apache.jasper.compiler.Parser.parseBody(Parser.java:1696)
    org.apache.jasper.compiler.Parser.parseOptionalBody(Parser.java:1016)
    org.apache.jasper.compiler.Parser.parseCustomTag(Parser.java:1291)
    org.apache.jasper.compiler.Parser.parseElements(Parser.java:1470)
    org.apache.jasper.compiler.Parser.parseBody(Parser.java:1683)
    org.apache.jasper.compiler.Parser.parseOptionalBody(Parser.java:1016)
    org.apache.jasper.compiler.Parser.parseCustomTag(Parser.java:1291)
    org.apache.jasper.compiler.Parser.parseElements(Parser.java:1470)
    org.apache.jasper.compiler.Parser.parse(Parser.java:144)
    org.apache.jasper.compiler.ParserController.doParse(ParserController.java:244)
    org.apache.jasper.compiler.ParserController.parse(ParserController.java:105)
    org.apache.jasper.compiler.Compiler.generateJava(Compiler.java:203)
    org.apache.jasper.compiler.Compiler.compile(Compiler.java:375)
    org.apache.jasper.compiler.Compiler.compile(Compiler.java:351)
    org.apache.jasper.compiler.Compiler.compile(Compiler.java:335)
    org.apache.jasper.JspCompilationContext.compile(JspCompilationContext.java:597)
    org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:399)
    org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:386)
    org.apache.jasper.servlet.JspServlet.service(JspServlet.java:330)
    javax.servlet.http.HttpServlet.service(HttpServlet.java:741)
    org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)
```

**Note** The full stack trace of the root cause is available in the server logs.

Apache Tomcat/8.5.54

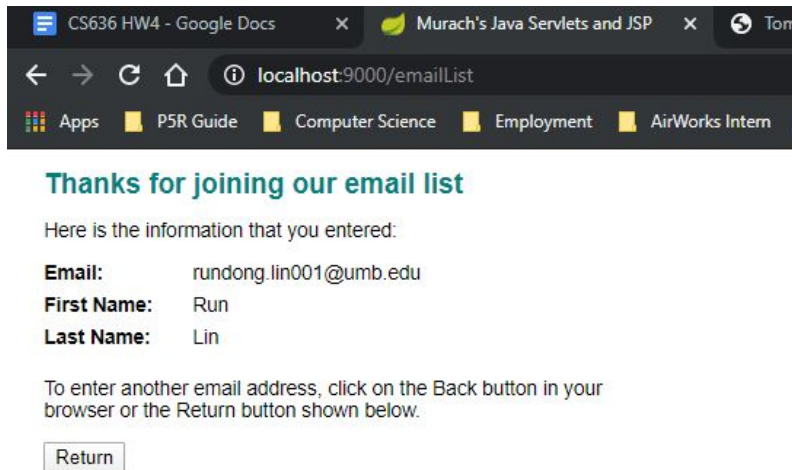


5. a.)

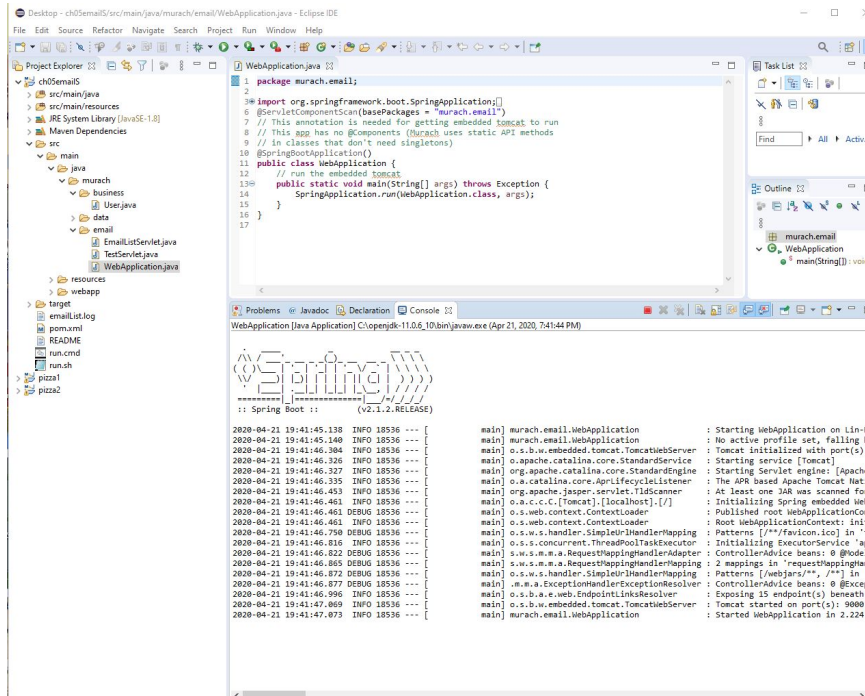
```
<form action="emailList" method="post">
```

Calls EmailListServlet.java

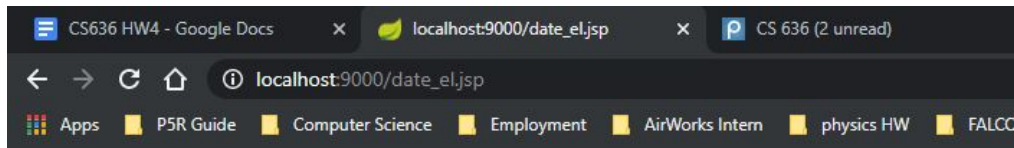
```
@WebServlet(name = "EmailList", description = "Servlet to handle email  
list", urlPatterns = {"/emailList"})
```



5b.) Launching from eclipse works.



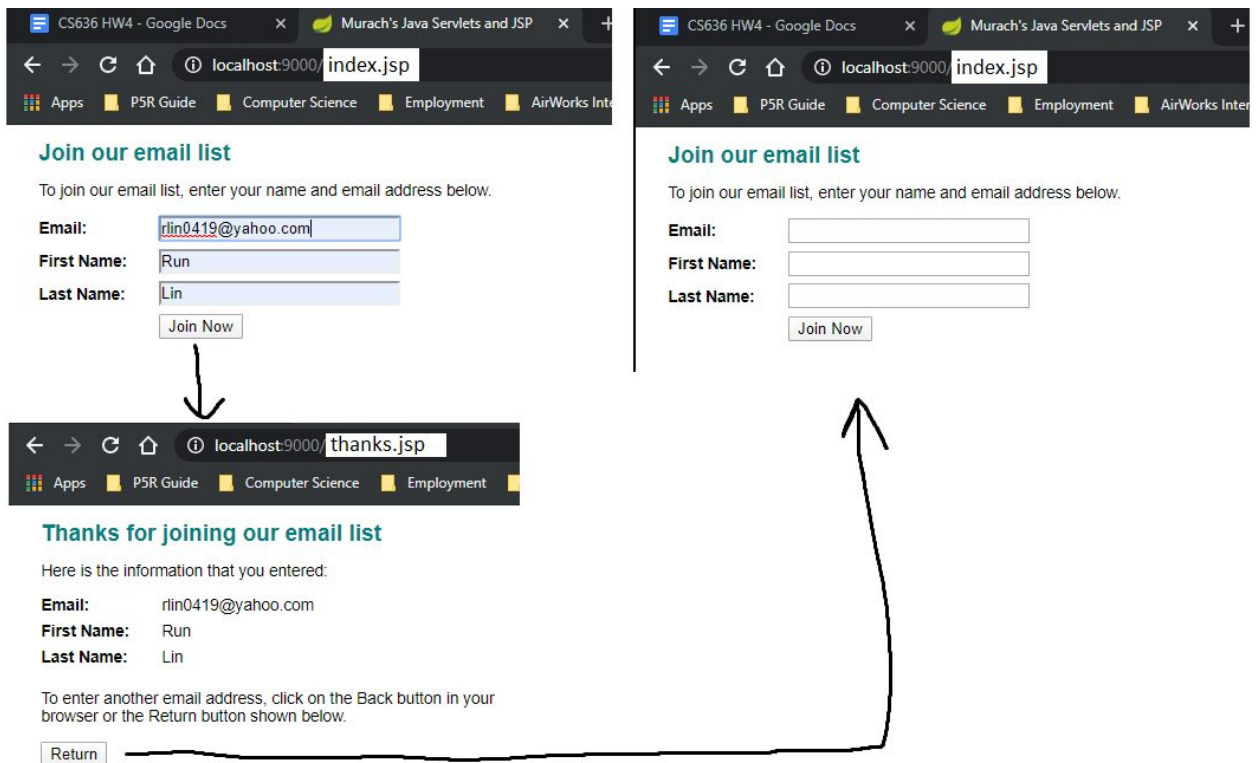
5c.) localhost:9000/date\_el.jsp



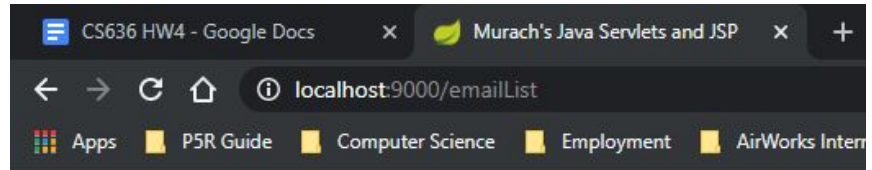
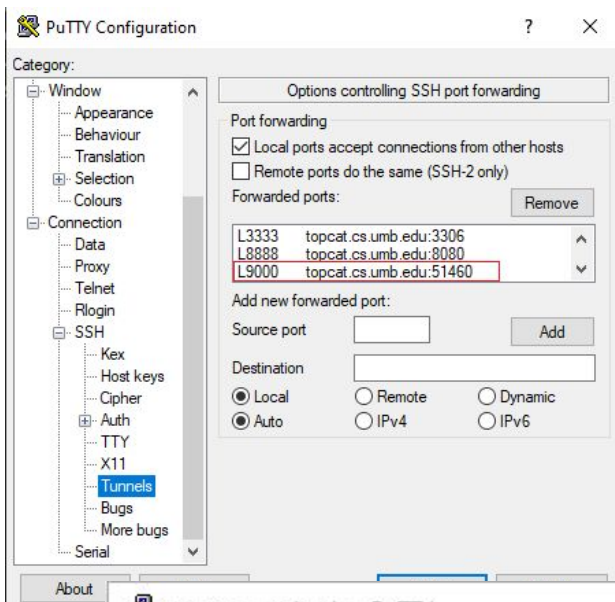
Today's date is Tue Apr 21 19:53:32 EDT 2020

5d.)  
Not too sure.

6.



7.



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