

SWE 645 – Assignment 1 – Shaeq Khan

IDE used – Eclipse

Deployed and tested on Apache Tomcat 7.0.34

Zipped folder contains

- Project package “StudentSurveyStruts2”
- “StudentsSurveyStruts2.war”
- “SurveyInformation.txt”
- This readme file

Step 1 –

File > Import

Click on the General folder and select “Existing project into “workspace”.

Select the desired path to where the project folder is and click Finish.

Step 2 –

Using the Project explorer, open the file in

StudentSurveyStruts2 > Java Resources > src > skhan27.struts2 > StudentService.java

You will see a big comment block that reads “CHANGE FILE PATH HERE”.

Change the filepath for the variables “fileName” and “newFile” to the desired path.

Step 3 -

Using the Project Explorer, browse to the WebContent folder and right

click on index.jsp and select Run As > Run on Server.

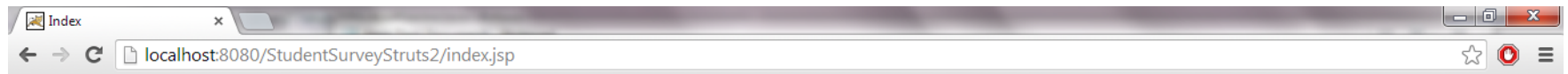
Select the desired server and open the page on a browser.

The link would be -

<http://localhost:8080/StudentSurveyStruts2/index.jsp>

**Below are some snap shots during the run time of the application.**

We start from the home page with two links - one for the survey and the other to list all surveys.



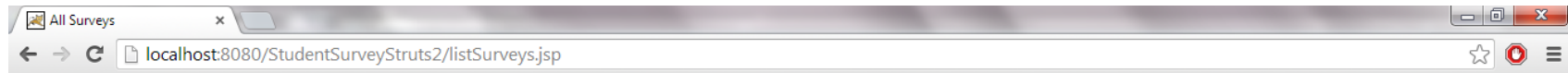
## SWE 645 Component Based Software Engineering

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[Take a student survey.](#)

[List all surveys.](#)

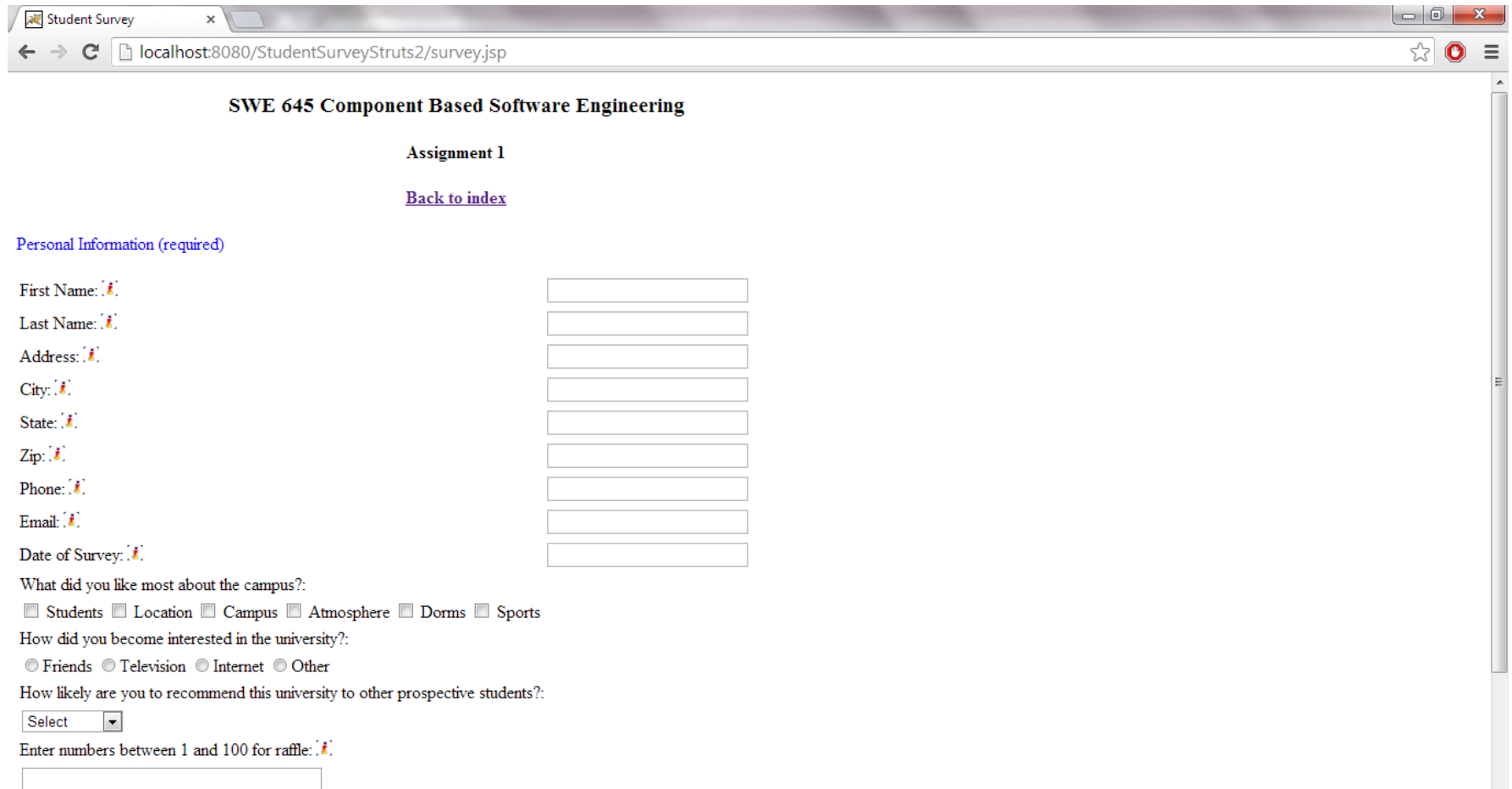
Lets start by viewing surveys that are already in the file.



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Name	Address	Phone	Email	Date of survey	Survey	Raffle	Comments
Shaeq Khan	9657 Lindenbrook Street, VA, 22032	5713405285	skhan27@gmu.edu	19/09/2013	Likes: Location, Campus, Sports . Interest: Internet . Recommend: Likely	10,20,30,40,50,60,70,80,90,100	none
ABC abc	4200 University Drive, VA, 22030	8000000000	georgemason@gmu.edu	20/09/2013	Likes: Location, Campus, Sports . Interest: Internet . Recommend: Likely	91,92,93,94,95,96,97,98,99,100	good campus
Vinod Dubey	1234 xyz street, VA, 22030	9876543210	vdubey@gmu.edu	27/09/2013	Likes: Students, Location . Interest: Internet . Recommend: Very Likely	86,87,88,89,90,91,92,93,94,95	GMU is a good school
test test	test, tt, 12345	7418529631	test@test.com	01/01/2013	Likes: Students, Location, Campus, Atmosphere, Dorms, Sports . Interest: Other . Recommend: Unlikely	85,86,87,88,89,90,91,92,93,94	test

Now use the link on the top to go back to the index page and then go to the survey form.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/StudentSurveyStruts2/survey.jsp'. The page title is 'Student Survey'. The main content area has the heading 'SWE 645 Component Based Software Engineering' and a sub-heading 'Assignment 1'. Below this is a link 'Back to index'. The form is titled 'Personal Information (required)' and contains several input fields with validation icons (a small 'i' in a red box) indicating required fields. The fields are: First Name, Last Name, Address, City, State, Zip, Phone, Email, and Date of Survey. Below these are three sections: 'What did you like most about the campus?' with checkboxes for Students, Location, Campus, Atmosphere, Dorms, and Sports; 'How did you become interested in the university?' with radio buttons for Friends, Television, Internet, and Other; and 'How likely are you to recommend this university to other prospective students?' with a dropdown menu. At the bottom is a text input field for 'Enter numbers between 1 and 100 for raffle:'.

Student Survey

localhost:8080/StudentSurveyStruts2/survey.jsp

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Personal Information (required)

First Name:

Last Name:

Address:

City:

State:

Zip:

Phone:

Email:

Date of Survey:

What did you like most about the campus?:

☐ Students ☐ Location ☐ Campus ☐ Atmosphere ☐ Dorms ☐ Sports

How did you become interested in the university?:

☐ Friends ☐ Television ☐ Internet ☐ Other

How likely are you to recommend this university to other prospective students?:

Select

Enter numbers between 1 and 100 for raffle:

All required fields on the form have tool tips and validation.

Student Survey

localhost:8080/StudentSurveyStruts2/submitsurvey.action

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Personal Information (required)

First Name: {0}	<input type="text"/>	First name is a required field
Last Name: {0}	<input type="text"/>	Last name is a required field
Address: {0}	<input type="text"/>	Address is a required field
City: {0}	<input type="text"/>	City is a required field
State: {0}	<input type="text"/>	State is a required field
Zip: {0}	<input type="text"/>	Zip is a required field
Phone: {0}	<input type="text"/>	Phone is a required field
Email: {0}	<input type="text"/>	Email is a required field Invalid email.
Date of Survey: {0}	<input type="text"/>	Date of survey is a required field Invalid date

What did you like most about the campus?:

Besides having required fields, other types of validation included is for first name, last name city and state to be alphabets. The zip and phone can only be numeric. The email should have a "." and "@" and the date is accepted in the format dd-mm-yyyy. Besides there is validation for the raffle numbers if the user enters them. Raffle numbers are accepted when they are between 1 and 100 and when there are 10 numbers. The tool tip shows what format they should be entered in.

Student Survey x  
localhost:8080/StudentSurveyStruts2/submitsurvey.action

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Personal Information (required)

First Name:  Characters allowed in this field only

Last Name:  Characters allowed in this field only

Address:  Characters allowed in this field only

City:  Characters allowed in this field only

State:  Characters allowed in this field only

Zip:  Digits allowed in this field only

Phone:  Digits allowed in this field only

Email:  Invalid email.

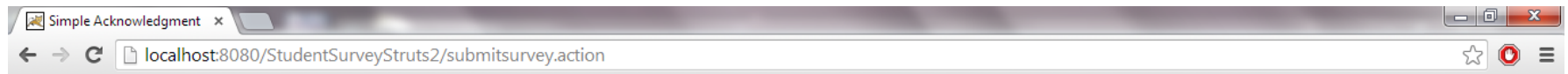
Date of Survey:  Invalid date

What did you like most about the campus?:  
☐ Students ☐ Location ☐ Campus ☐ Atmosphere ☐ Dorms ☐ Sports

How did you become interested in the university?:  
☒ Friends ☐ Television ☐ Internet ☐ Other

How likely are you to recommend this university to other prospective students?:

If I don't enter any raffle numbers then I am taken to the simple acknowledgment page where the mean and standard deviation is shown to be 0



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Your survey has been saved!  
Thank you, Shaeq Khan for filling out this survey!

The average for raffle numbers: 0.0  
The Standard Deviation for raffle numbers: 0.0

Simple examples with invalid and valid raffle numbers are shown below

Student Survey

localhost:8080/StudentSurveyStruts2/submitsurvey.action

Personal Information (required)

First Name:	Shaeq
Last Name:	Khan
Address:	9657 Lindenbrook Street
City:	Oakton
State:	VI
Zip:	22031
Phone:	5713405285
Email:	skhan27@gmu.edu
Date of Survey:	01/01/2013

What did you like most about the campus?:

☐ Students ☐ Location ☐ Campus ☐ Atmosphere ☐ Dorms ☐ Sports

How did you become interested in the university?:

☐ Friends ☐ Television ☐ Internet ☒ Other

How likely are you to recommend this university to other prospective students?:

Likely

Raffle numbers entered incorrectly. Please see tool tip for example (hover over the icon near the label)

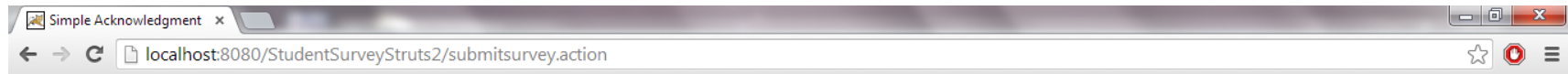
Enter numbers between 1 and 100 for raffle:

1,2,3,4,5,6,7

Comments:

Submit





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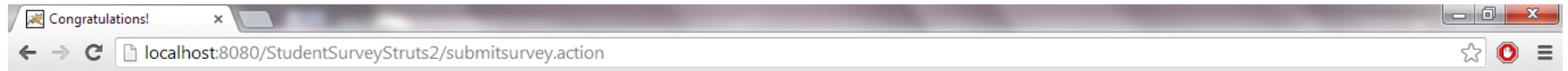
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[Back to Survey](#)

Your survey has been saved!  
Thank you, Shaeq Khan for filling out this survey!

The average for raffle numbers: 4.0  
The Standard Deviation for raffle numbers: 2.792848008753788



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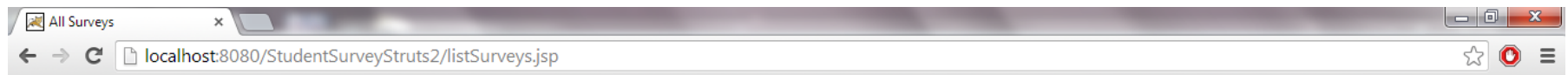
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Congratulations! You have won two movie tickets in the raffle...

Thank you, Shaeq Khan for filling out this survey!

Average for raffle numbers: 94.0  
Standard Deviation for raffle numbers: 2.9154759474226504



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ABC abc	4200 University Drive, VA, 22030	8000000000	georgemason@gmu.edu	20/09/2013	Likes: Location, Campus, Sports . Interest: Internet . Recommend: Likely	91,92,93,94,95,96,97,98,99,100	good campus
Vinod Dubey	1234 xyz street, VA, 22030	9876543210	vdubey@gmu.edu	27/09/2013	Likes: Students, Location . Interest: Internet . Recommend: Very Likely	86,87,88,89,90,91,92,93,94,95	GMU is a good school
test test	test, tt, 12345	7418529631	test@test.com	01/01/2013	Likes: Students, Location, Campus, Atmosphere, Dorms, Sports . Interest: Other . Recommend: Unlikely	85,86,87,88,89,90,91,92,93,94	test
Shaeq Khan	4911 Carriage Park Road, VA, 22032	5712058169	skhan27@gmu.edu	28/09/2013	Likes: Students, Campus, Sports . Interest: Internet . Recommend: Very Likely		
Shaeq Khan	9657 Lindenbrook Street, VI, 22031	5713405285	skhan27@gmu.edu	01/01/2013	Likes: . Interest: Other . Recommend: Likely	1,2,3,4,5,6,7,8,9,1	
Shaeq Khan	9657 Lindenbrook Street, VI, 22031	5713405285	skhan27@gmu.edu	01/01/2013	Likes: . Interest: Other . Recommend: Likely	91,92,93,94,95,96,97,98,99,90	

Final list of surveys after all test cases shown above.