

# IT-314 Software Engineering

*StarContests.com*

*If it's not here, it's not happening*

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## System Test Report v1.1

Team 8  
[9-04-2015]

Instructor: Prof. Asim Banerjee

DOCUMENT	DATE	VERSION	CREATED BY	REVIEWED BY
Test Report	9th April, 2015	V1.0	Rachit Mishra	Shivani Thakker, Prachit Kothari

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# 1.0 Introduction

## 1.1 Purpose

This test report provides a brief description and analysis of the results of tests performed as outlined within this document. Software testing is the process used to help identify the correctness, completeness, security and quality of the developed computer software. Testing is the process of analyzing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item. The main purpose of testing is to ensure that all the modules are functioning as desired and as mentioned in the SRS.

# 2.0 Test Analysis

**Project Name:** StarContests

**Version Number:** 1.0

**Additional Comments:** This test report contains the test results of the online platform of our contest-detailing website(**StarContests**) we would be hosting.

## 2.1 Platform Testing

**Test Owner:** Prachi Kothari, Soham Darji, Yash Jain

**Test Date:** 7th April to 9th April

**Test Results:** All component tests were successful.

## 2.2 Integration Testing

Combining individual software modules and testing them as a group.

**Test Owner:** Soham Darji, Shivani Thakker, Rachit Mishra

**Test Date:** 7th April to 9th April

**Test Results:** All integration testing were successful.

## 2.3 Security Testing

Includes confidentiality, integrity, authentication, authorization and availability.

**Test Owner:** Hardik Beladiya, Archit Gajjar, Krupal Barot

**Test Date:** 8th April, 2015

**Test Results:** The system is secure in terms of five basic security concepts that needed to be secured.

## 2.4 Recovery Testing

Testing the software ability to recover in case of a software crash.

**Test Owner:** Prachi Kothari

**Test Date:** 9th April, 2015

**Test Results:** The system is fast and there have been absolutely no faults encountered till now.

## 2.5 System Testing

Testing conducted on a complete integrated system to evaluate system's compliance with its specific requirements

**Test Owner:** Rachit Mishra, Yash Jain, Krupal Barot

**Test Date:** 9th April, 2015

**Test Results:** All the test cases as cited in the test cases report were conducted and it was found that out of 40 system test cases 12 failed.

## 2.6 Performance Testing

Testing performed to determine the performance of a system in case of a high workload. Also determines scalability and reliability.

**Test Owner:** Archit Gajjr, Shivani Thakker

**Test Date:** 8th April, 2015

**Test Results:** All Performance tests were successful.

## 2.7 Acceptance Testing

Testing performed to determine if requirements of a particular contract are met.

**Test Owner:** Dhaval Chaudhary

**Test Date:** 8th April, 2015

**Test Results:** Acceptance tests were conducted by our client and were successful.

## 3.0 Test Assessment

Test assessment was conducted in order to validate our results and get a real-time check of the functionalities that we had included and accordingly implement changes. The tests were quite adequate as they succeeded in pointing out a number of validations and some coding errors. They were carried out thoroughly according to our test plan. This report includes the results of all the failed test cases re-tests after the necessary corrections. Also

we conducted a beta-testing for performance and an acceptance test from our client.

## 4.0 Test Results

Testing results were as follows: All the test cases have been passed. Also the tests conducted during Performance and acceptance testing were positive.

### 4.1 Component Testing

Unit, module, and system integration testing activities were performed during the development of the system build. The unit testing phase of our project included the testing of the following components:

1) Accessing the account

Login

Signup(If no account already)

2) Home page

For guest

For participant

3) Upcoming Contest

4) Manage database

Add +Delete+ Update

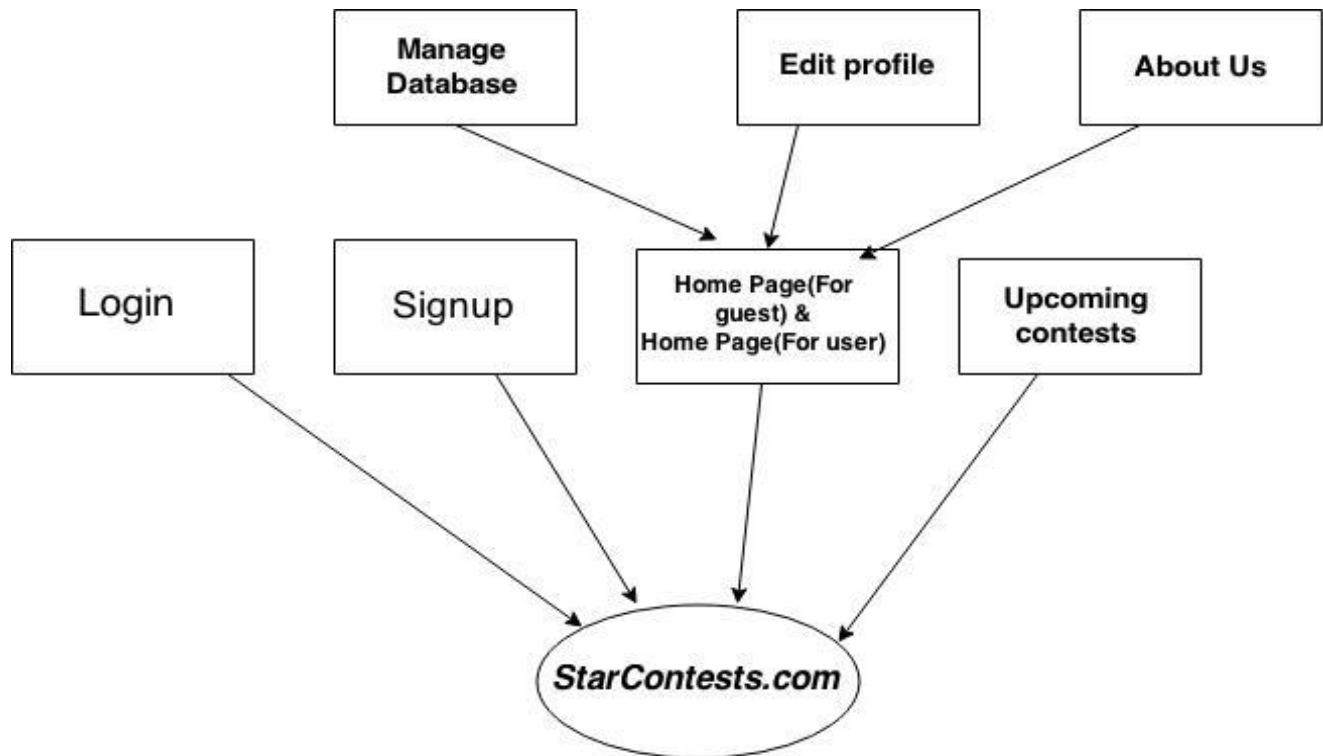
5) Edit Profile

6) Create Contest or participate in a contest

*Note: All the above components were tested and found to be working as required.*

## 4.2 INTEGRATION TESTING





## 4.3 SECURITY TESTING

The following were tested to achieve the necessary security for our product:

- 1) SQL injection: It was found to be secure due to the use of php framework.
- 2) Authentication: It was found to be secure due to Devise Plug-in with the PHP framework which is an authentication solution for PHP. Also, authentication e-mail was sent to the user who had just sign up.

4) Confidentiality: The user login information stored in database is encrypted providing confidentiality.

city	pincode	state	password	pic
	0		202cb962ac59075b964b6 [REDACTED]	[BL - 0
	0		0004000450075b964b64004b70	[BL

It was found system will also ensure the protection of information & data and maintains functionality as intended. System will try to give the five basic security concepts that need to be covered by security testing are: confidentiality, integrity, authentication, availability and authorization.

## 4.4 RECOVERY TESTING

A regular data backup ensured by cloud based infrastructure ensures safety of data if database crash occurs. Recovery Testing encompasses testing examples such as:

1) While an app is running, or while the website is live, we can suddenly restart the computer then check the data integrity of the website.

2) To facilitate recovery testing, restart the system while the browser has had a definite number of session

## 4.5 System Testing

The table below summarizes the results of system testing for **StarContests**:

Test Case ID	Tester	Pass /Fail	Severity of Defect	Summary of Defect	Comments
Tc01	Hardik Beladiya	p	-	-	Validation done in email field.
Tc02	Rachit Mishra	p	-	-	Password field working perfectly.
Tc03	Rachit Mishra	p	-	-	All preconditions satisfied and module working correctly.
Tc04	Prachi Kothari	p	-	-	Validations done.

Tc05	Hardik Beladiya	p	-	-	Email IDs without an '@' character not accepted. Empty fields also not accepted.
Tc06	Prachi Kothari	p	-	-	Less than 7 digit numbers and more than 15 digit characters are not to be accepted.
Tc07	Soham Darji	p	-	-	Signup done only when two fields match.
Tc09	Shivani Thakker	p	-	-	Review of validation done in email field.
Tc10	Dhaval Chaiudhary	p	-	-	Account confirmation working perfectly.

Tc11	Archit Gajjar	p	-	-	Forgot password confirmation working perfectly.
Tc12	Dhaval Chaudhary	p	-	-	Overall working but Validation required in username field.
Tc13	Yash Jain	P	-	-	When changing password, save updates only when both passwords match.
Tc14	Archit Gajjar	p	-	-	Details of user updated in the database
Tc15	Hardik Beladiya	p	-	-	Date and time and other details of event updated in database.

Tc16	Rachit Mishra	p	-	-	Name field is required error corrected/ if empty.
Tc17	Shivani Thakker	p	-	-	Route to event location
Tc18	Prachi Kothari	p	-	-	Checked the city filter in browse contests.
Tc19	Soham Darji	p	-	-	Check the month/week/today filter in browse contests.
Tc20	Yash Jain	p	-	-	Check if organizer receives the request main from sub-organizer/ volunteer.

Tc21	Rachit Mishra	p	-	-	Current password field required.
Tc22	Hardik Beladiya	p	-	-	Password recovered successfully.
Tc23	Soham Darji	P	-	-	Checking the logout.

The table below summarizes the results of system testing for **StarContests.com**

Test Case ID	Tester	Pass /Fail	Severity of Defect	Summary of Defect	Comments
Tc24	Prachi Kothari	p	-	-	No defect in login and signup. All



					validations related to login and signup done.
Tc25	Shivani Thakker	p	-	-	Password field working perfectly.
Tc26	Hardik Beladiya	p	-	-	Validations done in email field
Tc27	Rachit Mishra	p	Low	-	User has to fill all mandatory fields.
Tc28	Soham Darji	p		-	Less than 7 and more than 15 digit passwords are not being accepted.
Tc29	Shivani Thakker	p	-	-	Password fields don't match while updating the password.

Tc30	Prachi Kothari	p	-	-	Password Validations done.
Tc31	Krupal Barot	p	-	-	Both required.
Tc32	Rachit Mishra	p	-	-	Validations done.
Tc33	Yash Jain	p	-	-	Database updated accordingly.
Tc34	Krupal Barot	p	-	-	Database deleted.
Tc35	Rachit Mishra	p	High	-	Sub-organizing request not processed.
Tc36	Archit Gajjar	p	-	-	Participating successful
Tc37	Soham Darji	p	-	-	Event successfully organized.

Tc38	Prachi Kothari	p	-	-	Event successfully sub-organized.
Tc39	Shivani Thakker	p	-	-	Profile pictures/logos should be of jpg format.
Tc40	Archit Gajjar	p	Low	-	Unable to upload profile pictures in png format
Tc41	Rachit Mishra	p	-	-	Chat forums visible to just organizers and sub-organizers.
Tc42	Yash Jain	f	Low	-	Chat forums visible to participant.

## 4.6 Performance Testing

The Performance Testing of the system was successfully carried out. Simultaneous 15 events were created and the server handled it without any glitch. The whole system was running without any major glitches, like inconsistency in the database, or any exceptional error etc.. The configuration of the system while analyzing the log was, that there were six software's running in the background including Apache , MySql, etc. Since we are implementing cloud based infrastructure the webhost and database are scalable.

## 4.7 Acceptance Testing

Our product has been accepted by our client.

## 5.1 Resolved Test Incidents

All test cases have been resolved.

## 5.2 Unresolved Test Incidents

There are no unresolved test cases.

## APPENDIX A: Test Report Approval

The undersigned acknowledge they have reviewed the **Test Report** and agree with the approach it presents. Changes to this **Test Report** will be coordinated with and approved by the undersigned or their designated representatives.

Signature:

Date:

Print

Name:

Title:

Role:

Project Manager