

Review 3-Final Report Winter 2017-18

MTECH-(SOFTWARE ENGINEERING) PROJECT BASED COMPONENT

SWE2005 - SOFTWARE TESTING Slot-B2+TB2

Collaborizm Blog- Chat Application (Website Testing)

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Problem Statement:

we have many websites. They are good and fast responding. This website "Collaborizm blog" is made by us and we want to make sure it works properly. So, we need to test the website. As this blog helps in helping to know about our projects and uploads and it is viewed by many other people we must make sure that this website is fast responding and must not have any faults. Thus, we use some testing methods to automate testing and manual testing and make sure our website is performing well.

The main aim of our project is to make the chat application web based with clean design and with high performance. So, we used many testing tools for testing load testing, performance testing and automation testing. These testing tools helps to test the modules and Improve the performance of the whole Collaborizm blog.

Test Plan:

| Sl.no | Test cond Id | Test case description | Test execution steps | Test inputs | Expected results | Actual resu |
|-------|--------------------|---------------------------------|---|-------------------------|--|-------------|
| 1. | TC_01 | To check the homepage open | Step 1: open the file location Step 2: open the html file with a chrome | main.html | System should open main page | As expected |
| 2. | TC_02 | To check login button | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page | Click "Login" button | System should open login page | As expected |
| 3. | TC_03 | To check user name is not empty | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep username field empty Step 5: click login button | Give empty user name | System should show prompt message as "Username should not be empty" | As expected |
| 4. | TC_04 | To check username is not empty | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep username field empty Step 5: click login button | Give empty password | System should show prompt message as "Password should not be empty" | As expected |

| 5. | TC_05 | To check valid username | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep username as other than nikhil Step 5: click login button | Username= 'user' | System should show prompt message as "Invalid Username!" | As expected |
|-----|-------|------------------------------|--|---|--|-------------|
| 6. | TC_06 | To check valid password | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep password as other than c Step 5: click login button | Password= 'pass' | System should show prompt message as "Invalid Password!" | As expected |
| 7. | TC_07 | To check login | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep username as other than 'nikhil' and password as 'c' Step 5: click login button | Username= 'nikhil' Password= 'c' Click login button | System should show prompt message as "Successfully logged in!" | As expected |
| 8. | TC_08 | To check reset button | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click login page Step 4: keep username and password with some values Step 5: click Reset button | Username= 'Chintu' Password= '123' Click reset button | System should clear username and password field | As expected |
| 9. | TC_09 | To check register button | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page | Click "Register" button | System should open register page | As expected |
| 10. | TC_10 | To check first name is empty | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page | Give empty first name | System should show prompt message as "First name should not be empty" | As expected |

| | | 1 - | 1 | | 1 |
|-------------|-----------------------------|--|-------------|-----------------------|-------------|
| | | Step 4: keep first name | | | |
| | | as empty | | | |
| | | Step 5: click Register | | | |
| 11 500 11 | | button | | | |
| 11. TC_11 | | Step 1: open the file | First name= | System accepts | As expected |
| | all capital case letter | location | 'TANVI' | first name | |
| | | Step 2: open the html | | | |
| | | file with a chrome | | | |
| | | Step 3: click register | | | |
| | | page | | | |
| | | Step 4: keep first name as TANVI | | | |
| | | | | | |
| | | Step 5: click Register button | | | |
| 12. TC_12 | To check first name accept | Step 1: open the file | First name= | System accepts | As expected |
| 12. 1C_12 | all small case letter | location | 'tanvi' | first name | As expected |
| | an sman case letter | Step 2: open the html | tanvi | Thane | |
| | | file with a chrome | | | |
| | | Step 3: click register | | | |
| | | page | | | |
| | | Step 4: keep first name | | | |
| | | as tanvi | | | |
| | | Step 5: click Register | | | |
| | | button | | | |
| 13. TC_13 | To check first name accept | Step 1: open the file | First name= | System accepts | As expected |
| | all capital case and small | location | 'TanvI' | first name | _ |
| | case letter | Step 2: open the html | | | |
| | | file with a chrome | | | |
| | | Step 3: click register | | | |
| | | page | | | |
| | | Step 4: keep first name | | | |
| | | as TanvI | | | |
| | | Step 5: click Register | | | |
| 11 | | button | | | |
| 14. TC_14 | _ | Step 1: open the file | First name= | System should | As expected |
| | numeric values | location | '12345' | prompt | |
| | | Step 2: open the html | | message as | |
| | | file with a chrome | | "First name | |
| | | Step 3: click register | | must have alphabet | |
| | | page Step 4: keep first name | | character only" | |
| | | as 12345 | | Character Only | |
| | | Step 5: click Register | | | |
| | | button | | | |
| 15. TC_15 | To check first name accepts | Step 1: open the file | First name= | System should | As expected |
| | special character | location | '@#\$%&' | prompt | |
| | • | Step 2: open the html | | message as | |
| 1 | | | 1 | | |
| | | file with a chrome | | "First name | |
| | | file with a chrome Step 3: click register | | "First name must have | |

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|-----|-------|-------------------------------|--|-----------------|--------------------------|---------------|
| | | | Step 4: keep first name as @#\$%& | | character only" | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 16. | TC_16 | To check last name is empty | Step 1: open the file | Give empty last | System should | As expected |
| | 10_10 | = 5 cmcta aust maine is empty | location | name | show prompt | - 15 thpooled |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome | | "Last name | |
| | | | Step 3: click register | | should not be | |
| | | | page | | empty" | |
| | | | Step 4: keep last name | | | |
| | | | as empty | | | |
| | | | Step 5: click Register | | | |
| 1.7 | FG 15 | m 1 11 | button | . | G | |
| 17. | TC_17 | To check last name accept | Step 1: open the file | Last name= | System accepts | As expected |
| | | all capital case letter | location | 'TANVI' | last name | |
| | | | Step 2: open the html file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep last name | | | |
| | | | as TANVI | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 18. | TC_18 | To check last name accept | Step 1: open the file | Last name= | System accepts | As expected |
| | | all small case letter | location | 'tanvi' | last name | |
| | | | Step 2: open the html | | | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page Step 4: keep last name | | | |
| | | | as tanvi | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 19. | TC_19 | To check last name accept | Step 1: open the file | Last name= | System accepts | As expected |
| | | all capital case and small | location | 'TanvI' | last name | _ |
| | | case letter | Step 2: open the html | | | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep last name as TanvI | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 20. | TC_20 | To check last name accept | Step 1: open the file | Last name= | System should | As expected |
| | | numeric values | location | '12345' | prompt | _ |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome | | "Last name | |
| | | | Step 3: click register | | must have | |
| | | | page | | alphabet | |

| | | | Step 4: keep last name | | character only" | |
|-----|--------|-----------------------------|--|-------------------|---------------------------|-------------|
| | | | as 12345 | | character only | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 21. | TC_21 | To check last name accepts | Step 1: open the file | Last name= | System should | As expected |
| | _ | special character | location | '@#\$%& ' | prompt | 1 |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome | | "Last name | |
| | | | Step 3: click register | | must have | |
| | | | page | | alphabet | |
| | | | Step 4: keep last name | | character only" | |
| | | | as @#\$%& | | | |
| | | | Step 5: click Register | | | |
| 22. | TC_22 | To check gender is not | button Step 1: open the file | Do not click any | System should | As expected |
| 22. | 10_22 | selected | location | gender | show prompt | As expected |
| | | sciected | Step 2: open the html | gender | message as | |
| | | | file with a chrome | | "Select | |
| | | | Step 3: click register | | male/female" | |
| | | | page | | | |
| | | | Step 4: keep gender as | | | |
| | | | empty | | | |
| | | | Step 5: click Register | | | |
| 22 | FG 22 | | button | CI: 1 1 1 | G | |
| 23. | TC_23 | To check gender is selected | Step 1: open the file | Click gender male | System accept | As expected |
| | | | location Step 2: open the html | or female | gender | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep gender | | | |
| | | | male or female | | | |
| | | | Step 5: click Register | | | |
| 2.4 | TFG 24 | T. 1 1 | button | C: | G . 1 11 | |
| 24. | TC_24 | To check username is empty | Step 1: open the file | Give empty user | System should | As expected |
| | | | location Step 2: open the html | name | show prompt message as | |
| | | | file with a chrome | | "User name | |
| | | | Step 3: click register | | should not be | |
| | | | page | | empty" | |
| | | | Step 4: keep user name | | | |
| | | | as empty | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 25. | TC_25 | To check user name accept | Step 1: open the file | User name= | System accepts | As expected |
| | | all capital case letter | location | 'THARUN' | user name | |
| | | | Step 2: open the html | | | |
| | | | file with a chrome Step 3: click register | | | |
| | | | page | | | |
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|-----|-------|----------------------------|--|------------|-------------------------|-------------|
| | | | Step 4: keep user name as THARUN | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 26. | TC_26 | To check user name accept | Step 1: open the file | Last name= | System accepts | As expected |
| | | all small case letter | location | 'tharun' | user name | <u> </u> |
| | | | Step 2: open the html | | | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep user name as tharun | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 27. | TC_27 | To check user name accept | Step 1: open the file | User name= | System accepts | As expected |
| | | all capital case and small | location | 'TharuN' | user name | |
| | | case letter | Step 2: open the html | | | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page Step 4: keep user name | | | |
| | | | as TharuN | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 28. | TC_28 | To check user name accept | Step 1: open the file | User name= | System should | As expected |
| | | numeric values | location | '12345' | prompt | |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome Step 3: click register | | "User name must have | |
| | | | page | | alphabet | |
| | | | Step 4: keep user name | | character only" | |
| | | | as 12345 | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 29. | TC_29 | To check user name accepts | Step 1: open the file | User name= | System should | As expected |
| | | special character | location Step 2: open the html | '@#\$%&' | prompt message as | |
| | | | file with a chrome | | "User name | |
| | | | Step 3: click register | | must have | |
| | | | page | | alphabet | |
| | | | Step 4: keep user name | | character only" | |
| | | | as @#\$%& | | | |
| | | | Step 5: click Register button | | | |
| 30. | TC_30 | To check password is empty | Step 1: open the file | Give empty | System should | As expected |
| | | | location | password | show prompt | |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome Step 3: click register | | "Password should not be | |
| | | | page | | empty" | |
| | 1 | 1 | 1 1 4 5 4 | I | - Cimpty | I |

| | | | Step 4: keep password | | | |
|-----|-------|----------------------------|--|------------|----------------|-------------|
| | | | as empty | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 31. | TC_31 | To check password accept | Step 1: open the file | Password= | System accepts | As expected |
| | | all capital case letter | location | 'THARUN' | password | |
| | | | Step 2: open the html file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep password | | | |
| | | | as THARUN | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 32. | TC_32 | To check password accept | Step 1: open the file | Last name= | System accepts | As expected |
| | | all small case letter | location | 'tharun' | password | |
| | | | Step 2: open the html | | | |
| | | | file with a chrome Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep password | | | |
| | | | as tharun | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 33. | TC_33 | To check password accept | Step 1: open the file | Password= | System accepts | As expected |
| | | all capital case and small | location | 'TharuN' | password | |
| | | case letter | Step 2: open the html file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep password | | | |
| | | | as TharuN | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 34. | TC_34 | To check password accept | Step 1: open the file | Password= | System accepts | As expected |
| | | numeric values | location | '12345' | password | |
| | | | Step 2: open the html file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep password | | | |
| | | | as 12345 | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 35. | TC_35 | To check password accepts | Step 1: open the file | Password= | System accepts | As expected |
| | | special character | location | '@#\$%&' | password | |
| | | | Step 2: open the html file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page | | | |
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|-----|-------|---|--|-----------------------|--|---------------|
| | | | Step 4: keep password as @#\$%& | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 36. | TC_36 | To check password accepts | Step 1: open the file | Password= | System accepts | As expected |
| | | all characters | location | 'Nikhil@123' | password | |
| | | | Step 2: open the html | | | |
| | | | file with a chrome | | | |
| | | | Step 3: click register | | | |
| | | | page Step 4: keep password | | | |
| | | | as Nikhil@123 | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 37. | TC_37 | To check retype password is | Step 1: open the file | Give empty | System should | As expected |
| | | empty | location | retype password | show prompt | |
| | | | Step 2: open the html | | message as | |
| | | | file with a chrome Step 3: click register | | "Retype password | |
| | | | page | | should not be | |
| | | | Step 4: keep retype | | empty" | |
| | | | password as empty | | | |
| | | | Step 5: click Register | | | |
| 20 | TC 20 | To also also materials and a second at | button | Datama | Creatern | A a arm (- 4 |
| 38. | TC_38 | To check retype password accept all capital case letter | Step 1: open the file location | Retype password= | System accepts retype | As expected |
| | | accept an capital case letter | Step 2: open the html | 'THARUN' | password | |
| | | | file with a chrome | | r ************************************ | |
| | | | Step 3: click register | | | |
| | | | page | | | |
| | | | Step 4: keep retype | | | |
| | | | password as THARUN Step 5: click Register | | | |
| | | | button | | | |
| 39. | TC_39 | To check retype password | Step 1: open the file | Last name= | System accepts | As expected |
| | | accept all small case letter | location | 'tharun' | retype | |
| | | | Step 2: open the html | | password | |
| | | | file with a chrome | | | |
| | | | Step 3: click register page | | | |
| | | | Step 4: keep retype | | | |
| | | | password as tharun | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 40. | TC_40 | To check retype password | Step 1: open the file | Retype | System accepts | As expected |
| | | accept all capital case and small case letter | location Stop 2: open the html | password= 'TharuN' | retype | |
| | | sman case letter | Step 2: open the html file with a chrome | Inarun | password | |
| | | | Step 3: click register | | | |
| | | | page | | | |
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| | | | Step 4: keep retype password as TharuN Step 5: click Register button | | | |
| 41. | TC_41 | To check retype password accept numeric values | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep retype password as 12345 Step 5: click Register button | Retype password= '12345' | System accepts retype password | As expected |
| 42. | TC_42 | To check retype password accepts special character | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep retype password as @#\$%& Step 5: click Register button | Retype password= '@#\$%&' | System accepts retype password | As expected |
| 43. | TC_43 | To check retype password accepts all characters | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep retype password as Nikhil@123 Step 5: click Register button | Retype password= 'Nikhil@123' | System accepts retype password | As expected |
| 44. | TC_44 | To check password and retype password match | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep password as nikhil@123 retype password as Nikhil@123 Step 5: click Register button | Password= 'nikhil@123' Retype password= 'Nikhil@123' | System should show prompt message as "Retype password does not be match with the password" | As expected |
| 45. | TC_45 | To check password and retype password match | Step 1: open the file location Step 2: open the html | Password= 'Nikhil@123' Retype | System accepts password retype | As expected |

| | | | file with a chrome Step 3: click register page Step 4: keep password as Nikhil@123 retype password as Nikhil@123 Step 5: click Register button | password= 'Nikhil@123' | password | |
|-----|-------|---|---|----------------------------------|--|-------------|
| 46. | TC_46 | To check email is empty | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as empty Step 5: click Register button | Give empty email | System should show prompt message as "Email should not be empty" | As expected |
| 47. | TC_47 | To check email accept all capital case with @ and . | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as THARUN@ GMAIL.COM Step 5: click Register button | Email= 'THARUN@ GMAIL.COM' | System accepts email | As expected |
| 48. | TC_48 | To check email accept all small case with @ and . | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as tharun@gmail. com Step 5: click Register button | Email= 'tharun@gmail. com' | System accepts email | As expected |
| 49. | TC_49 | To check email accept all capital case and small case letter with @ and . | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as Tharun@gmail. com | Email= 'Tharun@gmail .com' | System accepts email | As expected |

| | | | Step 5: click Register button | | | |
|-----|-------|---|---|------------------------------|---|-------------|
| 50. | TC_50 | To check email accept character numeric values | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as nikhil24@ Gmail.com Step 5: click Register button | Email= 'nikhil24@ Gmail.com' | System accepts email | As expected |
| 51. | TC_51 | To check email accepts special character other than @ and . | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep email as nikhil#& Step 5: click Register button | Email= 'nikhil#&' | System should prompt message as "You have entered invalid email address" | As expected |
| 52. | TC_52 | To check phone number contain numeric values | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep phone number as 9626599916 Step 5: click Register button | Phone number= 9626599916 | System accepts phone number | As expected |
| 53. | TC_53 | To check phone number contain length as 10 | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep phone number as 9626599916 Step 5: click Register button | Phone number= 9626599916 | System accepts phone number | As expected |
| 54. | TC_54 | To check phone number contain length less than 10 or contain alphabets or special character | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep phone | Phone number= 96265nhi5#4 | System should show prompt message as "Enter valid phone number" | As expected |

| | | | number as 96265nhi5#4 | | | |
|-----|-------|---|--|---|--|-------------|
| | | | Step 5: click Register button | | | |
| 55. | TC_55 | To check address is empty | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep address as empty Step 5: click Register button | Give empty address | System should show prompt message as "Address should not be empty" | As expected |
| 56. | TC_56 | To check address, contain numbers, alphabets, special characters. | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: keep address as #504, Gandhinagar, Hyderabad, 510369 Step 5: click Register button | Address= #504, Gandhinagar, Hyderabad, 510369 | System accepts address | As expected |
| 57. | TC_57 | To check date from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: select date from list Step 5: click Register button | Date=06 | System accepts date | As expected |
| 58. | TC_58 | To check date from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: select date from list Step 5: click Register button | Date=date (default) | System should show prompt message as "Select your birth date from the list" | As expected |
| 59. | TC_59 | To check month from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page | Month=December | System accepts month | As expected |

| | | | Stan As calast month | | | |
|-----|-------|---|---|---|---|-------------|
| | | | Step 4: select month from list | | | |
| | | | Step 5: click Register | | | |
| | | | button | | | |
| 60. | TC_60 | To check month from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page | Month=month (default) | System should show prompt message as "Select your birth month from the list" | As expected |
| | | | Step 4: select month from list Step 5: click Register button | | | |
| 61. | TC_61 | To check year from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: select year from list Step 5: click Register button | Year=1999 | System accepts month | As expected |
| 62. | TC_62 | To check year from date of birth | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: select year from list Step 5: click Register button | Year=year (default) | System should show prompt message as "Select your birth year from the list" | As expected |
| 63. | TC_63 | To check good at is not selected | Step 1: open the file location Step 2: open the html file with a chrome Step 3: click register page Step 4: do not select anything from good at Step 5: click Register button | Do not select anything from Good at | System should show prompt message as "Please select what you are good at." | As expected |
| 64. | TC_64 | To check any field is selected from good at | Step 1: open the file location Step 2: open the html file with a chrome Step 3: select some field from good at | Good at='Raspberry, Arduino' | System accepts good at | As expected |

| | | | Step 5: click Register | | | |
|-----|-------|---|--|---|---|-------------|
| 65. | TC_65 | To check Submit button | Step 1: open the file location Step 2: open the html file with a chrome Step 3: enter all field as mentioned above Step 5: click Submit button | First name= Nikhil Last name= Nickky Gender=male Password= Nikhil@24 Retype password= Nikhil@24 Email=nikhil24@ Gmail.com Phone number= 9563258741 Address= #504, Gandhinagar, Hyderabad, 510369 Date=10 Month=October Year=1999 Good at=Raspberry, coding. | System should show prompt message as "Form submitted successfully" | As expected |
| 66. | TC_66 | To check reset button | Step 1: open the file location Step 2: open the html file with a chrome Step 3: enter all field as mentioned above Step 5: click Reset button | Click reset button | System clear all text field | As expected |
| 1. | TC_01 | To check the whether the two minimum users should available for chat | 1.Open the website 2.Login with user or admin 3.click chat button 4.chat box will open | Both client and server must open | Open chat of client or server | As expected |
| 2. | TC_02 | To Check whether two minimum devices are available(phones, laptops,)etc | 1.Open the website 2.Login with user or admin 3.click chat button 4.check two devices(laptops, phones) | Both client and server must have a device | Open chat of client or server with each device respectively | As expected |
| 3. | TC_03 | To Check the Chat application has been | 1.Install the chat application | Both client and server must install | Chat application has | As expected |

| | 1 | | | | 1 | T |
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| | | installed in two devices at least. | 2Open the website 3.Login with user or admin 4.click chat button | | been installed in two devices for both client and server | |
| 4. | TC_04 | Verify that any Medium like Internet, Wifi, Public Switched Telephone Network, for the Chat functionality. | 1.Check the internet connection(Data, wifi) 2.Install the chat application 3.Open the website 4.Login with user or admin 5.click chat button | Both client and server must have internet connection | Internet connection is available for both client and server | As expected |
| 5. | TC_05 | To Check the Users are able to send requests to other Users for chat or not | 1.Open the website 2.Login with user or admin 3.click chat button 4.send request to other user | Both client and server must send friend requests to other users | Both client and server are able to send requests to one another | As expected |
| 6. | TC_06 | To Check the how many number of words or characters can be send in a time. | 1.Open the website 2.Login with user or admin 3.click chat button 4. To Check the how many number of word can be send a time | Both client and server check the number of words can be send at a time | Open the chat and check how many number of words or characters can be send | As expected |
| 7. | TC_07 | Verify that Status (Active, Inactive, Invisible, etc.) of User is changing or not. | 1.Open the website 2.Login with user or admin 3.click chat button 4. Verify that Status (Active, Inactive) | Check the status whether the status is active or not | Open the chat and see the status is whether active or Inactive | As expected |
| 8. | TC_08 | To Check that User is able to create Account in Chat application or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4.click chat button | Both client and server must create an account | Both client and server and User is able to create Account | As expected |
| 9. | TC_09 | To Check that User is able to Login in Chat application or not. | 1.Open the website 2.Create an account 3.Login with user or admin or not | Check both users can able to do login | Both users can login in chat application | As expected |

| 10. | TC_10 | To check that User Can Login in a system simultaneously with two or more different IDs or not. | 1.Open the website 2.Create an account 3.Login with user or admin o 4.check whether its working simultaneously with different id proof | Both client and server check its working simultaneously with different id proof | Both users can Login in a system | As expected |
|-----|-------|---|---|--|--|-------------|
| 11. | TC_11 | To Check that User can send messages to another offline User. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4.check user can send a message to another user in offline | check user can send a message to another user in offline | Both Users can send messages to another offline User | As expected |
| 12. | TC_12 | To Check that User can see the time of comment in Chat or not. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. User can see the time of comment | User can see the time of comment | It can see the time of comment in chat comment both users | As expected |
| 13. | TC_13 | To check that User can send special characters in Chat or not. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. User can send special characters in Chat | User can send special characters in Chat | Both client and server can send special characters in Chat | As expected |
| 14. | TC_14 | To check that User can set its profile pic which is visible to other users or not | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. check that User can set its profile pic which is visible to other users | check that User can set its profile pic which is visible to other users | Both client and server can set its profile pic which is visible to other | As expected |
| 15. | TC_15 | To check that Users can accept requests from other Users for chat or not. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. check that Users can accept requests from other Users (chat) | check that Users can accept requests from other Users (chat) | Both client and server can accept requests from other Users for chat | As expected |
| 16. | TC_16 | To check that Chat application or functionality saves their Chat history or removes after session expire/ Chat application close. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. functionality saves their Chat history or removes after session | functionality saves their Chat history or removes after session | Both client and server of Chat application saves their Chat history | As expected |
| 17. | TC_17 | To check that Users Can | 1.Open the website | check that Users | Users can Add | As expected |

| | | Add or Remove Other Users from their Chat list or not. | 2.Create an account 3.Login with user or admin or not 4. To check that Users Can Add or Remove Other Users from their Chat list | Can Add or Remove Other Users | or Remove Other Users from their Chat list | |
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| 18. | TC_18 | To check that Users can create a Chat group or not. | 1. Open the website 2. Create an account 3. Login with user or admin or not 4. Users can create a Chat group or not. | Users can create a Chat group or not. | Users can create a Chat group | As expected |
| 19. | TC_19 | To check that Users Can Chat with their group or not. | 1.Open the website 2.Create an account 3.Login with user or admin or not 41 Users Can Chat with their group or not. | Users can Chat with their group | Users can Chat with their group | As expected |
| 20. | TC_20 | To check that Users can see current Chat/discussion in the group. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. check that Users can see current Chat in the group | Both client and server to see current Chat | Users can see current Chat | As expected |
| 21. | TC_21 | To check Users are able join current Chat/discussion in their group. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. check Users are able join current Chat | Both client and server are able join current Chat | Users are able join current Chat | As expected |
| 22. | TC_22 | To Check that Multiple Users can do Chat or discussion in their group simultaneously and every Chat should be visible to every member of the group. | 1.Open the website 2.Create an account 3.Login with user or admin or not 4. Users can do Chat or discussion in their group simultaneously | Both client and server can do Chat or discussion in their group simultaneously | Open the chat and Multiple Users can do Chat or discussion in their group simultaneously | As expected |
| 23. | TC_23 | To check that name of the User should be displaying to others in Chat application while chatting with other Users or group | 1.Open the website 2.Create an account 3.Login with user or admin 4. check that whenever any member joins or leave the Chat | Both client and server should be displaying to others in Chat application while chatting with other Users | Open the chat and name of the User should be displaying to others in Chat application | As expected |
| 24. | TC_24 | To check that whenever any member joins or leave the Chat / discussion then it | 1.Open the website2.Create an account3.Login with user or | whenever any member joins or leave the Chat | whenever any member joins or leave the | As expected |

| | | 1 111 25 11 4 | T , . | 1 | C1 + 11 *1 | |
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| | | should be notified in the group and is visible to every member of the group. | admin 4. check that whenever any member joins or leave the Chat then it should be notified in the group | | Chat then it should be notified in the group | |
| 25. | TC_25 | To Check that User can edit or delete its Chat or not | 1.Open the website 2.Create an account 3.Login with user or admin 4.User can edit or delete its Chat | Both client and server able to edit or delete its Chat | Open the chat and User can edit or delete its Chat or | As expected |
| 26. | TC_26 | To check that User can share Image, Video, documents etc or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. User can share Image, Video, documents | Both client and server can share Image, Video, documents etc | Open the chat and User can share Image, Video, documents etc | As expected |
| 27. | TC_27 | To check User can share hyperlinked URL, Emails or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. User can share hyperlinked URL, Emails | Both client and server | Open the chat and User can share hyperlinked URL, Emails | As expected |
| 28. | TC_28 | To check that is there any size limit of files if any file (Video, Image, Documents etc.) is uploading and sharing through the Chat application / functionality. | 1.Open the website 2.Create an account 3.Login with user or admin 4. To check that is there any size limit of files if any file (Video, Image, Documents etc.) | To check that is there any size limit of files if any file (Video, Image, Documents etc.) | Open the chat and know that is there any size limit of files if any file (Video, Image, Documents etc.) | As expected |
| 29. | TC_29 | To check that the User is able Chat in any language to the Users if that language is locally identified and registered by the governing body or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. To check that the User is able Chat in any language | check that the User is able Chat in any language | Open the chat and the User is able Chat in any language to the Users if that language is locally identified | As expected |
| 30. | TC_30 | To check that the User is able Chat in any language to the Users if that language is globally identified or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. User is able Chat in any language if that language is globally identified or not | User is able Chat in any language if that language is globally identified or not | Open the chat and User is able Chat in any language to the other Users | As expected |

| 31. | TC_31 | To Check that the User can translate the Chats of other users in any desired language or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. To Check that the User can translate the Chats | To Check that the User can translate the Chats | Open the chat and User can translate the Chats of other users | As expected |
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| 32. | TC_32 | To check that Chat application can display that which device has been used to send message or not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. check that Chat application can display | Both client and server able to display that which device has been used to send message | Open the chat and it can display that which device has been used to send message | As expected |
| 33. | TC_33 | To check that User is chatting with only original Users not any not. | 1.Open the website 2.Create an account 3.Login with user or admin 4. Check that User is chatting with only original Users | Both client and server can know chatting with only original Users | Open the chat and User is chatting with only original Users | As expected |
| 34. | TC_34 | To check that User can send any emoticons or not | 1.Open the website 2.Create an account 3.Login with user or admin 4. User can send any emoticons or not | Both client and server able to send any emoticons | Open the chat and User can send any emoticons or not | As expected |
| 35. | TC_35 | To check that User can use Copy and Paste functionality in Chat functionality or not | 1.Open the website 2.Create an account 3.Login with user or admin 4. User can use Copy and Paste functionality in Chat | Both client and server can use Copy and Paste functionality | Open the chat and User can use Copy and Paste functionality | As expected |
| 36. | TC_36 | To check that User Can Chat with two or more different devices with one ID at a time to another user or in a group. | 1.Open the website 2.Create an account 3.Login with user or admin 4. check that User Can Chat with two or more different devices with one ID | User can Chat with two or more different devices with one ID | Both client and server able to Chat with two or more different devices | As expected |
| 37. | TC_37 | To check that "Does a User is able to login in two different devices at a time or not?" | 1.Open the website 2.Create an account 3.Login with user or admin 4. Does a User is able to login in two different devices at a time or not | Both client and server can login in two different devices at a time or not? | Both client and server and User can login in two different devices at a time | As expected |
| 38. | TC_38 | To check that "How much | 1.Open the website | Both client and | Open the chat | As expected |

| | | time is it taking to send a message from one User to another?" | 2.Create an account 3.Login with user or admin 4. "How much time is it taking to send a message from one User to another? | server know How much time is it taking to send a message from one User to another? | and check how much time it taking to sending a message | |
|-----|-------|--|---|---|---|-------------|
| 39. | TC_39 | To check that "How much time is it taking to send a message from one User to another if internet is weak?" | 1.Open the website 2.Create an account 3.Login with user or admin 4. "How much time is it taking to send a message from one User to another if internet is weak?" | Both client and server know How much time is it taking to send a message from one User to another? | Open the chat and check how much time it taking to sending a message if another internet is weak | As expected |
| 40. | TC_40 | To check "How long a chat can be saved?" | 1.Open the website 2.Create an account 3.Login with user or admin 4. "How long a chat can be saved?" | Both client and server know How long a chat can be saved? | Open the chat both client and server and know the how log the chat can be saved | As expected |

COMPLEXITY OF OUR PROBLEM: Timing:

The price of building a mobile chat app is made up of several components:

- UI/UX design up to 150 hours;
- \bullet Development up to 900 hours, plus 25% of PM and QA services.

But still, how to make an website in modern days? In its current state,

App has 6 years of constant progress and expansion behind and refers rather to highly complex applications. Developing similar chat app from a scratch would take longer-4-6 months at average with a chat app development.

Level 1 – Low Complexity

Involves recall, observing and representing basic facts that demonstrate a surface level of understanding of text. Usually requires a student to perform a one step process by:

- ® Locating details
- ® Finding details on charts, graphs, or diagrams
- ® Recognizing chronological order
- ® Identifying figurative language

Level 2 – Moderate Complexity

Involves summarizing, inferring, classifying, comparing, gathering information, explaining, describing, while demonstrating a more complex level of understanding. Usually requires a student to perform a 2-step process by:

- ® Using context clues to identify the meanings of unfamiliar words
- ® Interpreting the information in graphs, charts, and diagrams
- ® Recognizing patterns of organization
- ® Comparing meanings
- ® Determining how details support main idea
- ® Demonstrating an understanding of plot development
- ® Identifying cause and effect relationships
- ® Summarizing the major points
- ® Identifying similarities and differences
- ® Determine fact or opinion

Level 3 – High Complexity

Involves higher order thinking, conceptual understanding, generalizing abstract reasoning, theme identification and complex inferencing within and across text. This level requires a student to perform multiple steps by:

- ® Analyzing the use of figurative language
- ® Showing how graphs, charts and diagrams contribute to a language
 - ® Analyzing in depth similarities and differences
 - ® Analyzing cause and effect relationships
- ® Determining author's purpose and/or point of view and how it affects the text
- ® Describing and illustrating how common themes are found across texts
- ® Applying text-based information to a similar situation
- ® Identifying and evaluating devices of persuasion
- ® Evaluating strong vs. weak argument
- ® Describing and analyzing the characteristics of various types of text

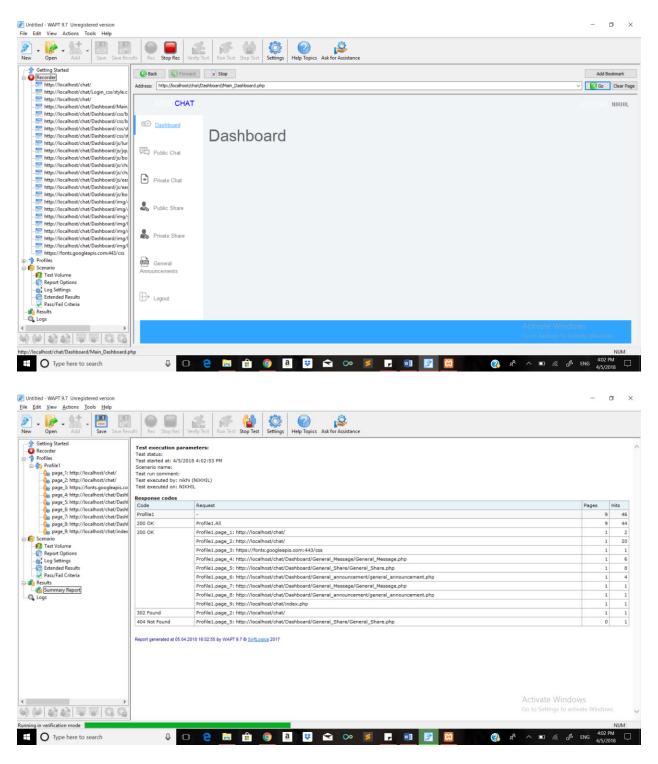
Testing Tools:

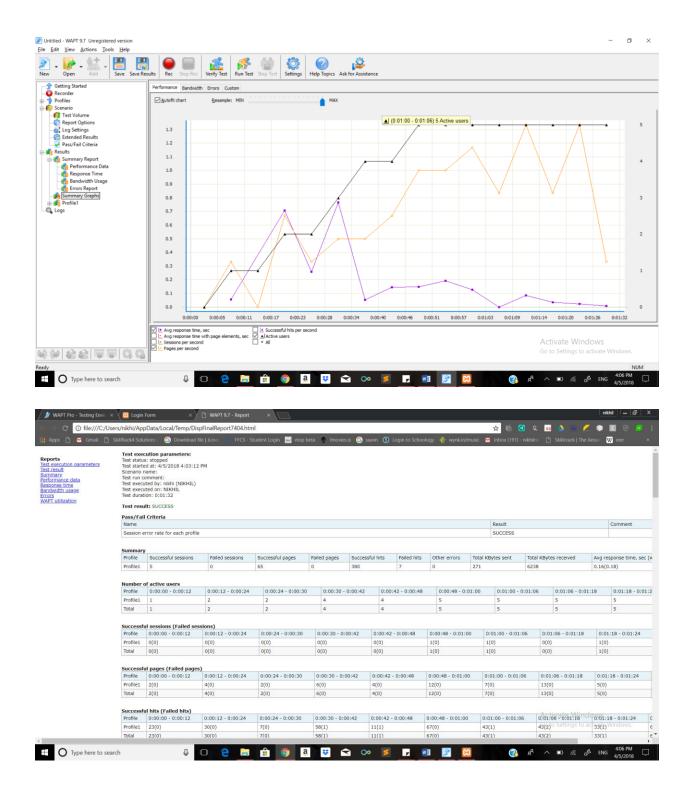
1.WAPT:

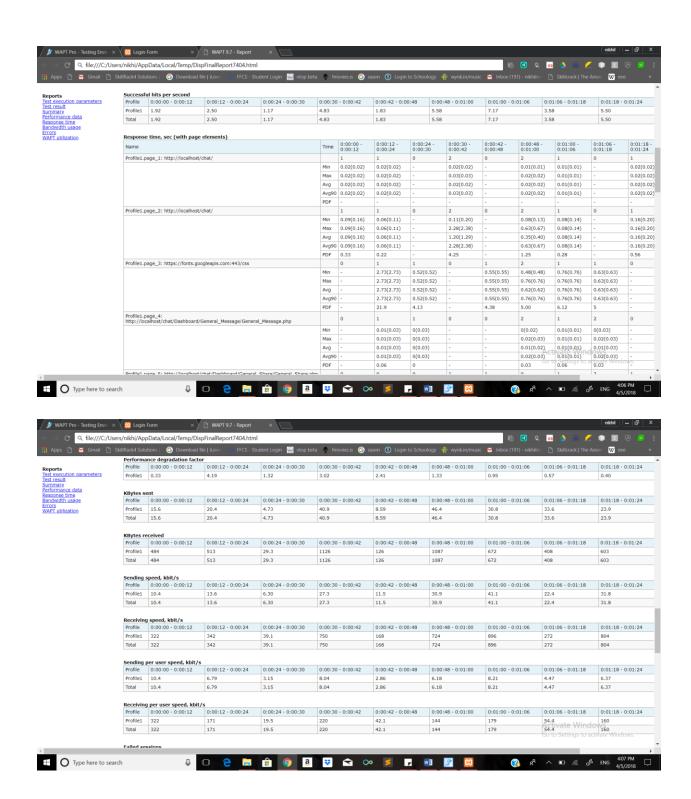
WAPT Pro is the core component in a scalable load testing environment. It combines the inherent ease of use that has been recognized in WAPT tools over the last decade with the power of efficiency and a trend towards the modern technologies and practices.

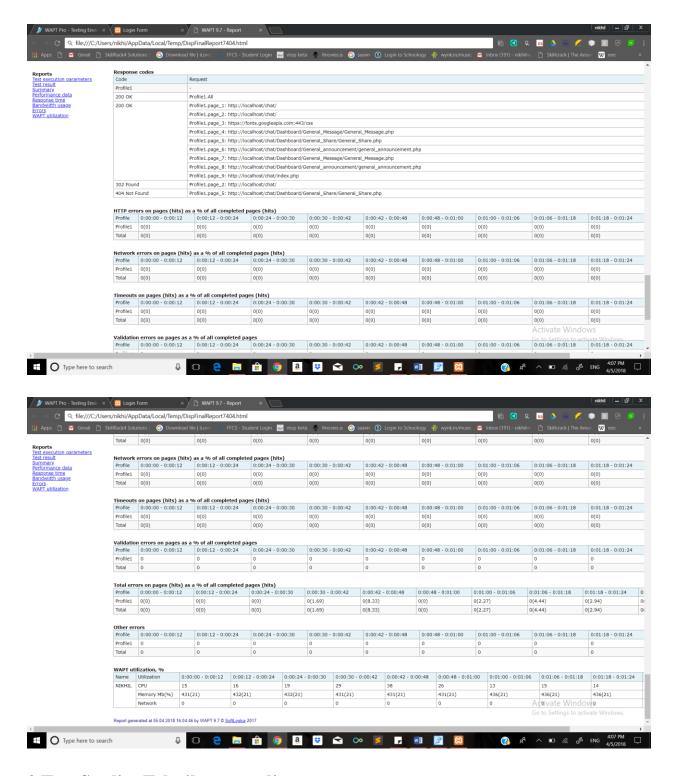
You can create tests for websites, web API services and mobile applications with a built-in test recorder. Extended feature set will let you emulate even the

most intricate communication schemes within the user sessions. The ability to run tests by multiple load generation units lets you verify the performance of high-end server solutions with up to 1M concurrent users. The integration capabilities open the door for regression testing with WAPT Pro in Agile and DevOps environments.









2.Test Studio- Telerik test studio:

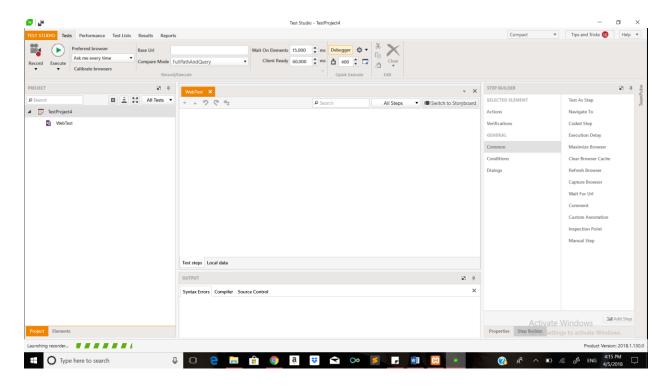
Telerik Test Studio is a Windows-based software testing tool for web and desktop functional testing, software performance testing, load testing and mobile application testing developed by Telerik. The tool ships with a plugin for Visual Studio and a standalone app that use the same repositories and file formats. Test

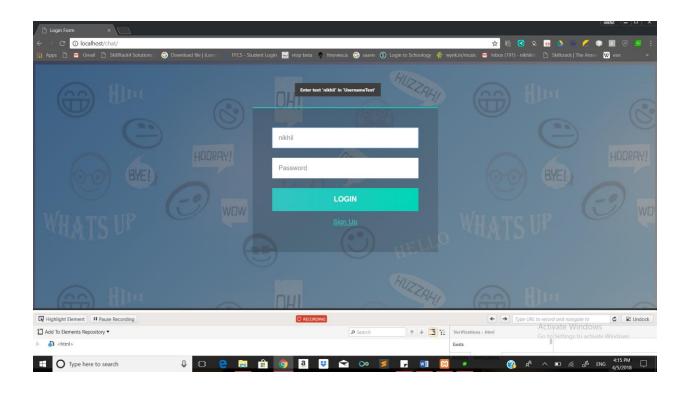
Studio supports HTML, AJAX, Silverlight, ASP.NET MVC, JavaScript and WPF. Test Studio supports test execution in Internet Explorer, Firefox, Safari and Chrome.

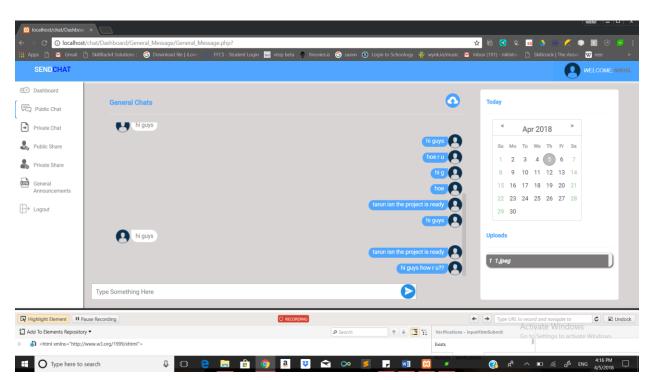
Functional Testing - The tool provides test automation support for web and desktop applications - Silverlight, WPF, AJAX, HTML, WPF, and MVC, JavaScript calls, dynamic page synchronization, client-side behaviors, as well as support for Visual Studio 2010 and 2012.

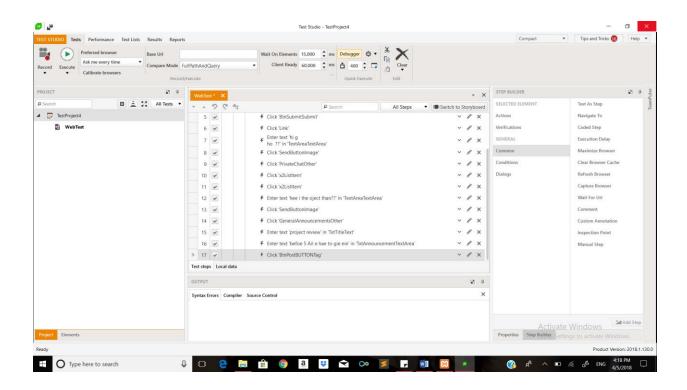
Performance Testing - Test Studio offers web performance testing to analyze metrics on the server and on the client, explore the HTTP traffic requests and performance counter data. Benchmarks can be created against which later results are compared for regression detection or goal setting. Performance metrics supplement the existing functional UI tests to include such data as server processing time, network latency, and client rendering time.

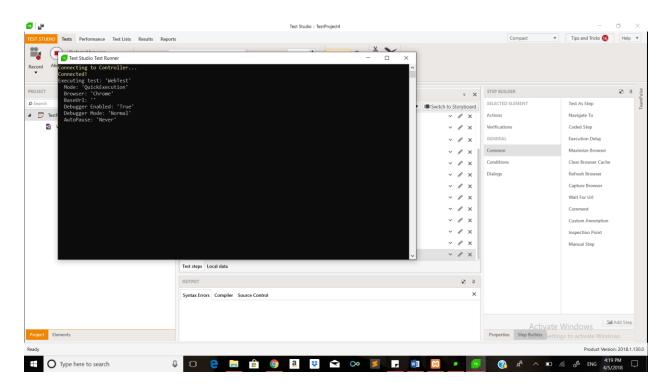
Load Testing - existing Test Studio functional tests or Fiddler logs can be used to create load tests. Test Studio's load agents are making use of multi-core, hyper threaded CPUs to generate a high user load.

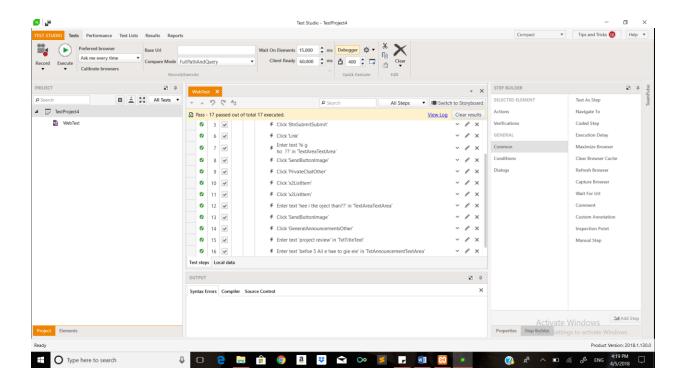


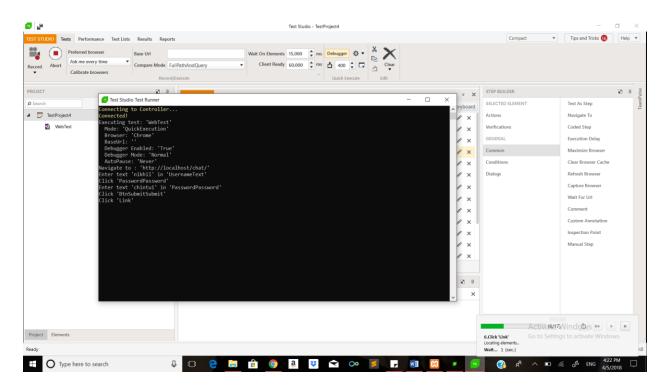


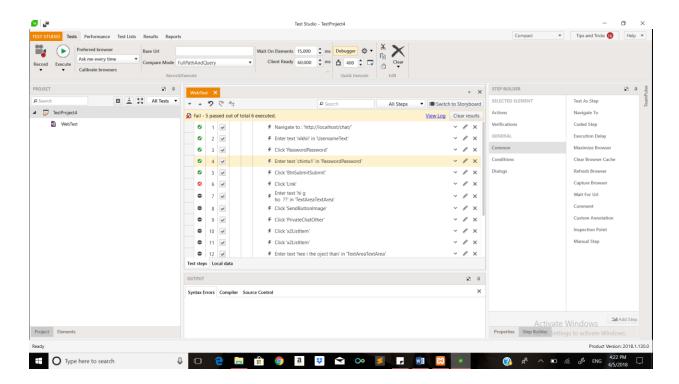












3.WebLoad:

WebLOAD is load testing tool, performance testing, stress test web applications. This web and mobile load testing and analysis tool is from RadView Software. Load testing tool WebLOAD combines performance, scalability, and integrity as a single process for the verification of web and mobile applications. It can simulate hundreds of thousands of concurrent users making it possible to test large loads and report bottlenecks, constraints, and weak points within an application.

Using its multi-protocol support, WebLOAD simulates traffic of hundreds of thousands of users and provides analysis data on how the application behaves under load. WebLOAD monitors and incorporates statistics from the various components of the system under test: servers, application server, database, network, load-balancer, firewall, etc., and can also monitor the End User Experience and Service Level Agreement (SLA) compliance in production environments.

