



Converge

SOFTWARE ENGINEERING(IT-314)

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GUI Testing Report

Project: Converge - Remote Work Collaboration Tool

Test type: GUI Testing

Prepared by: Ishti Patel

Browser used: Microsoft Edge

Extension used: Selenium IDE

Introduction

This report presents the GUI Testing performed for our project, *Converge – Remote Work Collaboration Tool*. The goal of the testing was to check whether the user interface is easy to use, visually consistent, and functioning correctly across all pages.

Scope of Testing

The following webpages were tested:

1. Create New Account Page
2. Login Page
3. Dashboard
4. Project Analytics page
5. Project Dashboard page
6. Update project details menu
7. Task View
8. Calendar View
9. Chat Feature
10. Navigation bar on dashboard

1. Create New Account

| Element/Feature Tested | Results |
|------------------------|--|
| Page Layout | All fields are properly arranged. Nothing is overlapping. |
| Text Fields | All input boxes (name, email, password, etc.) accept text correctly. |
| Labels | Labels are clear and easy to read. |
| Buttons | The “Send OTP” button is clickable and works properly. |
| Email Field | Shows an error if the email format is wrong. |
| Password Fields | Shows an error if passwords don’t match. |
| Error Messages | Error messages are visible and easy to understand. |
| Logo / Images | Logo is visible and aligned properly. |
| Keyboard Support | Can move through fields using the Tab key. |

The screenshot displays the Selenium IDE - Converge* interface. The top bar shows the project name 'Converge*'. Below it, the 'Tests' tab is active, showing a search bar and a list of tests. The 'Sign Up *' test is selected, and its details are shown in the main area. The test script consists of 16 steps, each with a command, target, and value. The commands are: type, click, type, click, type, click, type, click, type, click, type, click, type, click, type, and click. The targets are: id=lastName, id=username, id=username, id=email, id=email, id=password, id=password, id=confirmPassword, id=confirmPassword, id=confirmPassword, id=confirmPassword, id=confirmPassword, id=confirmPassword, id=confirmPassword, id=confirmPassword, and id=confirmPassword. The values are: Patel, Ishti, Ishti, Ishtipatel15@gmail.com, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, Ishti1503, and Ishti1503. The bottom panel shows the 'Log' tab with a list of log entries, including '13. click on id=password OK', '14. type on id=password with value Ishti1503 OK', '15. click on id=confirmPassword OK', '16. type on id=confirmPassword with value Ishti1503 OK', '17. click on css=.primary-btn OK', and 'Sign Up * completed successfully'.

| Command | Target | Value |
|----------|--------------------|------------------------|
| 8 type | id=lastName | Patel |
| 9 click | id=username | |
| 10 type | id=username | Ishti |
| 11 click | id=email | |
| 12 type | id=email | Ishtipatel15@gmail.com |
| 13 click | id=password | |
| 14 type | id=password | Ishti1503 |
| 15 click | id=confirmPassword | |
| 16 type | id=confirmPassword | Ishti1503 |

Command: [type] [id] [value]

Target: [id] [value]

Value: [value]

Description: [description]

Log: 13. click on id=password OK 19:00:11
14. type on id=password with value Ishti1503 OK 19:00:12
15. click on id=confirmPassword OK 19:00:13
16. type on id=confirmPassword with value Ishti1503 OK 19:00:14
17. click on css=.primary-btn OK 19:00:15
Sign Up * completed successfully 19:00:16

2. Login

| Element/Feature Tested | Results |
|---|--|
| Logo | Placed appropriately.. |
| Buttons | “Login” and “Forgot Password” buttons work properly. |
| Email/Username Field | Shows an error if username/ email format is wrong. |
| Password Fields | Shows an error for invalid password. |
| Keyboard Support | Can move through fields using the Tab key. |
| Login with google or Create New Account buttons | Work properly. |

The screenshot displays the Selenium IDE - Converge interface. The project is named 'Converge'. The test run is titled 'Login*' and is currently executing at the URL 'http://localhost:5173'. The test steps are as follows:

| Step | Command | Target | Value |
|------|-----------------|--------------------|------------------|
| 1 | open | /login | |
| 2 | set window size | 1296x768 | |
| 3 | click | id=loginIdentifier | |
| 4 | type | id=loginIdentifier | TestingUserThree |
| 5 | click | id=loginPassword | |
| 6 | type | id=loginPassword | TestingUser@3 |

Below the steps, there are input fields for Command, Target, Value, and Description. The status bar indicates 'Runs: 1 Failures: 1'.

The Log section shows the following messages:

- 'Login' ended with 1 error(s) 22:18:08
- Running 'Login' 22:19:47
- 1. open on /login OK 22:19:48
- 2. setWindowSize on 1296x768 OK 22:19:48
- 3. Trying to find id=loginIdentifier... OK 22:19:48
- Warning Element found with secondary locator xpath=//input. To use it by default, update the test step to use it as the primary locator. 22:20:19
- 4. Trying to find id=loginIdentifier... Failed: Implicit Wait timed out after 30000ms 22:20:19
- 'Login' ended with 1 error(s) 22:20:50

An error was detected by selenium IDE in typing the username as it took long for the user to type the username.

3. Dashboard

| Element/Feature Tested | Result |
|----------------------------|--|
| Page Layout | All project cards, buttons, and the task panel are properly aligned. |
| Search Bar | Search bar is visible, clickable and working. |
| New Project Button | Button is clickable, and opens the project creation page. |
| Project Cards | Display correct information (name, date, members). No overlapping seen. |
| Buttons on Project Cards | "Analytics", "View Details", and "Chat" buttons are clickable and take the user to the correct page. |
| Team Leader Badge | Badge is visible and positioned correctly on each project card. |
| Tasks Panel (Right Side) | Shows active tasks and completed tasks. |
| Navigation Bar (Top Right) | Icons for settings, notifications, and profile are visible and working. |
| Logo | Visible and aligned properly at the top-left. |
| Scroll Behavior | Scrolling works smoothly when many projects are present. |
| Loading Speed | Dashboard loads quickly without lag. |
| Responsiveness | Layout adjusts properly when resizing the browser window. |
| Colors & Fonts | Colors and font sizes are consistent and easy to read. |

Selenium IDE - Converge*

Project: Converge*

Tests

Search tests...

Run current test Ctrl+R

Dashboard*

Untitled

| | Command | Target | Value |
|----|------------|---|----------|
| 30 | click | css=.accordion-section:nth-child(7) .accordion-title | |
| 31 | mouse over | css=.accordion-section:nth-child(4) > .accordion-header | |
| 32 | mouse out | css=.accordion-section:nth-child(4) > .accordion-header | |
| 33 | click | css=.accordion-section:nth-child(5) .accordion-title | |
| 34 | run script | window.scrollTo(0,205.3333282470703) | |
| 35 | click | css=.accordion-section:nth-child(5) .accordion-title | |
| 36 | click | css=.analytics-actions > button:nth-child(1) | |
| 37 | click | css=.search-bar | |
| 38 | type | css=.search-bar | project1 |

Command

Target

Value

Description

Log

Reference

34. runScript on window.scrollTo(0,205.3333282470703) OK22:13:51

35. click on css=.accordion-section:nth-child(5) .accordion-title OK22:13:52

36. click on css=.analytics-actions > button:nth-child(1) OK22:13:53

37. click on css=.search-bar OK22:13:54

38. type on css=.search-bar with value project1 OK22:13:55

'Dashboard' completed successfully22:13:56

4. Project Analytics

| Element/Feature Tested | Result |
|-----------------------------|---|
| Buttons | Back and Refresh buttons work properly. |
| Analytics Section | Buttons like “Project Overview”, "Task Workflow Dashboard", “Team Activity Dashboard”, and “File Activity Dashboard” working. |
| Charts | All charts load properly and display task status, workload, dependencies, and priorities. |
| Color Coding in Charts | All charts are color-coded well. |
| Scrolling | Scroll works smoothly to view full analytics content. |
| Hover | Hover on marked points on charts give proper details. |
| Loading Time | Page loads within acceptable time. |
| Navigation Between Sections | Switching between different analytics blocks works smoothly. |

The screenshot displays the Selenium IDE - Converge* interface. The main window shows a test suite titled "Project Analytics*" with a list of commands and their targets. The commands are as follows:

| Command | Target | Value |
|------------|--|-------|
| click | css=accordion-section:nth-child(4) > .accordion-header | |
| run script | window.scrollTo(0,1978.6666259765625) | |
| click | css=accordion-section:nth-child(5) .accordion-title | |
| run script | window.scrollTo(0,2802) | |
| mouse over | css=.analytics-actions > button:nth-child(1) | |
| click | css=.analytics-actions > button:nth-child(1) | |

Below the command list, there are input fields for Command, Target, Value, and Description. The bottom section of the interface shows a log of the test execution, indicating that all steps were successful and the test suite "Project Analytics*" completed successfully.

Log:

- 13. runScript on window.scrollTo(0,966.6666870117188) OK 23:08:52
- 14. runScript on window.scrollTo(0,1186.6666259765625) OK 23:08:53
- 15. click on css=.accordion-section:nth-child(4) > .accordion-header OK 23:08:54
- 16. runScript on window.scrollTo(0,1978.6666259765625) OK 23:08:55
- 17. click on css=.accordion-section:nth-child(5) .accordion-title OK 23:08:56
- 18. runScript on window.scrollTo(0,2802) OK 23:08:57
- 19. mouseOver on css=.analytics-actions > button:nth-child(1) OK 23:08:58
- 20. click on css=.analytics-actions > button:nth-child(1) OK 23:08:59
- 'Project Analytics' completed successfully 23:09:00

5. Project Dashboard

| Element/Feature Tested | Result |
|------------------------------|---|
| Page Layout | (sidebar + content area) are well arranged. No overlapping components. |
| Project Title & Manager Info | Clearly visible at the top. Text is readable and properly aligned. |
| Sidebar Menu | Menu items (Overview, Tasks, Files, Calendar) are clickable and working. Highlighting on selection works. |
| Back Button | Works and redirects to the dashboard. |
| Update Details Button | Clickable and opens the update project menu correctly. |
| Summary | Description, tasks count, files count, and member count are displayed correctly. |
| Description Text | Clearly visible and easy to read. |
| Tasks View | Properly enables to create task and add dependencies . |
| Files View | Files displayed and uploaded properly. |

Selenium IDE - Converge*

Project: Converge*

Tests: +

Search tests...

Dashboard*

Login*

Project dashboard*

| | Command | Target | Value |
|----|---------|---|--------------|
| 13 | click | css=.nav-item:nth-child(6) > .nav-label | |
| 14 | click | css=.nav-item:nth-child(3) | |
| 15 | click | css=.btn | |
| 16 | click | id=projectDesc | |
| 17 | type | id=projectDesc | test changed |
| 18 | click | css=.primary | |

Command: [dropdown] [//] [img]

Target: [input] [img] [img]

Value: [input]

Description: [input]

Log Reference

11. click on css=div:nth-child(5) > button:nth-child(1) OK 22:48:00

12. click on css=.nav-item:nth-child(5) OK 22:48:01

13. click on css=.nav-item:nth-child(6) > .nav-label OK 22:48:02

14. click on css=.nav-item:nth-child(3) OK 22:48:03

15. click on css=.btn OK 22:48:04

16. click on id=projectDesc OK 22:48:05

17. type on id=projectDesc with value test changed OK 22:48:06

18. click on css=.primary OK 22:48:07

'Project dashboard' completed successfully 22:48:08

6. Update Project Details

| Element/Feature Tested | Result |
|------------------------|--|
| Input Text Fields | Accept values correctly. Existing project details load inside the fields properly. |
| Update Button | “Update” button is clickable and saves changes successfully. |
| Error Handling | Shows error if required fields are left empty. |
| Loading Speed | Page loads quickly and displays current project details without delay. |
| Keyboard Support | Tab key moves smoothly between all input fields. |
| Invite Members | Shows error if entered username not in database. |

The screenshot displays the Selenium IDE interface for a project named 'Converge*'. The 'Tests' tab is active, showing a test suite named 'Update_project_details*'. The test suite contains five steps:

| Step | Command | Target | Value |
|------|---------|------------------------|---------------------|
| 10 | click | id=projectDesc | |
| 11 | type | id=projectDesc | Description changed |
| 12 | click | css=input:nth-child(1) | |
| 13 | type | css=input:nth-child(1) | 202301212@dau.ac.in |
| 14 | click | css=btn:nth-child(2) | |
| 15 | click | css=primary | |

Below the test suite, there is a 'Log' tab showing the execution results of the test suite. The log indicates that the test suite 'Update_project_details' completed successfully.

Log:

- 8. click on id=projectDesc OK 23:16:53
- 9. doubleClick on id=projectDesc OK 23:16:54
- 10. click on id=projectDesc OK 23:16:55
- 11. type on id=projectDesc with value Description changed OK 23:16:56
- 12. click on css=input:nth-child(1) OK 23:16:57
- 13. type on css=input:nth-child(1) with value 202301212@dau.ac.in OK 23:16:58
- 14. click on css=btn:nth-child(2) OK 23:16:59
- 15. click on css=primary OK 23:17:00
- 'Update_project_details' completed successfully 23:17:01

7. Task View

| Element/Feature Tested | Result |
|------------------------------|---|
| Main content Layout | Task nodes, sidebar, buttons, and labels are properly aligned. Background has a working canvas where tasks are managed. |
| Task Nodes | Nodes are clear, readable, and show correct task name and due date. |
| Task Status Colors | Colors for task status (Completed, In Progress, Pending) are displayed correctly in the legend. |
| Create Task Button | Visible, clickable, and opens the task creation modal successfully. |
| Add Dependency Button | Clickable and allows linking two tasks. |
| Task Node Interaction | Nodes can be clicked, hovered, and show proper connector points. |
| Edges / Arrows | Dependency lines between tasks are visible and correctly connected. |
| Zoom Controls | Zoom in and zoom out buttons work properly. |
| Sidebar Navigation | Switching between Overview, Tasks, Files, and Calendar works correctly. |
| Back Button | Works properly and returns to the previous page. |
| Update Details Button | Visible and clickable; redirects to update project page. |
| Task Modal | Modal opens, but Selenium couldn't detect the backdrop due to timing; works fine manually. |
| Scroll Behavior | Page scrolls smoothly when diagram is large. |
| Responsiveness | Adjusts properly when resizing the browser window. |
| Data Accuracy | Task names, statuses, and due dates shown correctly for each task node. |
| Loading Speed | Task diagram loads within acceptable time. |

Selenium IDE - Converge*

Project: Converge*

Executing ▾ ▶ ⏮ ⏪ ⏩ ⏭

Task View* Run current test Ctrl+R

| | Command | Target | Value |
|---|-----------------|--|-------|
| 1 | open | /dashboard | |
| 2 | set window size | 1296x768 | |
| 3 | click | css=.project-card:nth-child(2) .project-name | |
| 4 | click | css=.nav-item:nth-child(4) | |
| 5 | click | css=.task-modal-backdrop | |
| 6 | click | css=.react-flow__pane | |

Command: //

Target:

Value:

Description:

Runs: 1 Failures: 1

Log Reference

'Task View' ended with 1 error(s) 01:48:29

Running 'Task View' 01:56:13

1. open on /dashboard OK 01:56:14
2. setWindowSize on 1296x768 OK 01:56:14
3. Trying to find css=.project-card:nth-child(2) .project-name... OK 01:56:14
4. click on css=.nav-item:nth-child(4) OK 01:56:15
5. Trying to find css=.task-modal-backdrop... **Failed:**
Implicit Wait timed out after 30000ms 01:56:16

'Task View' ended with 1 error(s) 01:56:47

The above error is because when a task dependency is added, it needs to be saved. So, saving the task dependency takes time.

8. Calendar View

| Element/Feature Tested | Result |
|----------------------------------|--|
| Sync Meetings from Google Button | Clickable and fetches updated events successfully. |
| Event Cards Layout | Neatly displayed. No misalignment. |
| Event Title & Description | Event name and description are clearly visible and readable. |
| Event Date/Time | Date and time are displayed correctly in readable format. |
| View in Google Calendar | Button works and opens the Google Calendar. |
| Scrolling | Smooth scrolling when many events are listed. |
| Responsiveness | Page adjusts normally when resizing the browser window. |
| Loading Speed | Loads quickly without noticeable delay. |

The screenshot displays the Selenium IDE interface for a project named 'Converge*'. The test suite 'Calendar View*' is being executed on the URL 'http://localhost:5173'. The test consists of six steps:

| Step | Command | Target | Value |
|------|---------------------|--|-------|
| 1 | open | /dashboard | |
| 2 | set window size | 1296x768 | |
| 3 | click | css=project-card:nth-child(1).project-name | |
| 4 | click | css=.nav-item:nth-child(6) | |
| 5 | click | css=event-card:nth-child(1) > button | |
| 6 | store window handle | root | |

The 'click' command at step 5 has failed. The error message in the log is: 'Failed: Exceeded waiting time for new window to appear 2000ms'. The log also shows that the previous steps were successful.

Runs: 1 Failures: 1

Log Reference

- 'Login' was aborted 11:14:55
- Running 'Calendar View' 11:16:05
- 1. open on /dashboard OK 11:16:06
- 2. setWindowSize on 1296x768 OK 11:16:06
- 3. Trying to find css=project-card:nth-child(1).project-name... OK 11:16:06
- 4. click on css=.nav-item:nth-child(6) OK 11:16:07
- 5. click on css=event-card:nth-child(1) > button Failed: Exceeded waiting time for new window to appear 2000ms 11:16:08
- 'Calendar View' ended with 1 error(s) 11:16:11

The error is because it takes some time to load the Google Calendar when clicked on the 'View in Google Calendar' button.

9. Chat feature

(Tested manually)

| Element/Feature Tested | Result |
|----------------------------|---|
| Page Layout | Chat sidebar, chat window, header, and input box are properly aligned. No overlapping components. |
| Team Members List | Member names are clickable, and selecting a member opens the correct chat. |
| Group Chat Button | Works correctly; switches to group chat mode. |
| AI Chat Button | Clickable and opens the AI chat section properly. |
| Summarize Button | Works and opens chat summary pop-up. |
| Search Bar | Accepts text and filters messages smoothly. Placeholder text is visible. |
| Chat Messages Display | Messages clearly visible, with proper spacing and time stamps. |
| Reply Option | Reply button visible and clickable for each message. |
| Message Input Box | Accepts text normally and displays placeholder. |
| Send Button | Send button is clickable and sends messages successfully. |
| Attachment Icon | Works well for file uploads. |
| Scroll Behavior | Scrolling works smoothly for long chat history. |
| Online / Offline Indicator | Shows user status correctly. |
| Back Navigation | Back arrow works properly and returns to the dashboard. |
| Loading Speed | Chat loads quickly without lag. |
| Icons | Icons for send, attach, reply, search enhance user interface. |

10. Navigation bar of dashboard page

| Element/Feature Tested | Result |
|--|---|
| Logo Display | Visible and properly aligned on the left. |
| Search Bar | Works, accepts text, and has proper placeholder. |
| Settings Icon | Clickable and opens the Settings page correctly. Allows to change password and save changes. |
| Notifications Icon | Visible with a red badge count; clicking opens notifications page properly. |
| Profile Icon | Visible and clickable. Opens a dropdown menu. |
| View Profile (under profile menu) | Works correctly and redirects to the profile page. User profile visible and well aligned. |
| Settings (under profile menu) | Works and opens the settings section. |
| Hover Effects | Icons highlight slightly on hover; works properly. |
| Alignment | All icons and search bar are aligned correctly horizontally. |

Project: Converge*

Search tests... Run current test Ctrl+R

| Command | Target | Value |
|----------------|----------------------|-------|
| 18. click | css=li:nth-child(3) | |
| 19. click | css=.submit-btn | |
| 20. mouse over | css=.submit-btn | |
| 21. mouse out | css=.submit-btn | |
| 22. click | css=.back-btn | |
| 23. run script | window.scrollTo(0,0) | |

Task View

Update_project_details

Log Reference

16. click on css=.back-btn OK 11:57:43

17. click on css=.profile-icon OK 11:57:44

18. click on css=li:nth-child(3) OK 11:57:45

19. click on css=.submit-btn OK 11:57:46

20. mouseOver on css=.submit-btn OK 11:57:47

21. mouseOut on css=.submit-btn OK 11:57:48

22. click on css=.back-btn OK 11:57:49

23. runScript on window.scrollTo(0,0) OK 11:57:50

'Navigatoin bar' completed successfully 11:57:51

Conclusion

The above GUI tests show that most features of Converge worked correctly.

- Pages load properly
- Buttons are working and responded as expected
- All main functionalities such as creating project, viewing tasks, updating project details, chatting worked without major issues.
- Small delays were observed due to API response time.
- Overall interface is clean, responsive, and user-friendly.