

GUI TESTING

Environment :

Operating system : Windows

Browsers: Brave (Version 1.50.121), Microsoft Edge (Version 112.0.1722.64), Google Chrome (Version 112.0.5615.138)

Tools : Selenium Version 3.17.2

Test-plan : Test each Test case with manual testing and record it. Then reply on the same browser and different browsers.

Test - data :

Username : vivek

Password : Vivek12345678@

Admin username : admin

Admin password : admin

Test Pages:

1. Testing login Page for a user
2. Testing tutorial Page
3. Testing CrossWord solving with an test CrossWord
4. Testing Automation Creation
5. Testing Manual Creation
6. Testing Profile Page
7. Testing Follow Functionality in GUI
8. Testing Admin Page

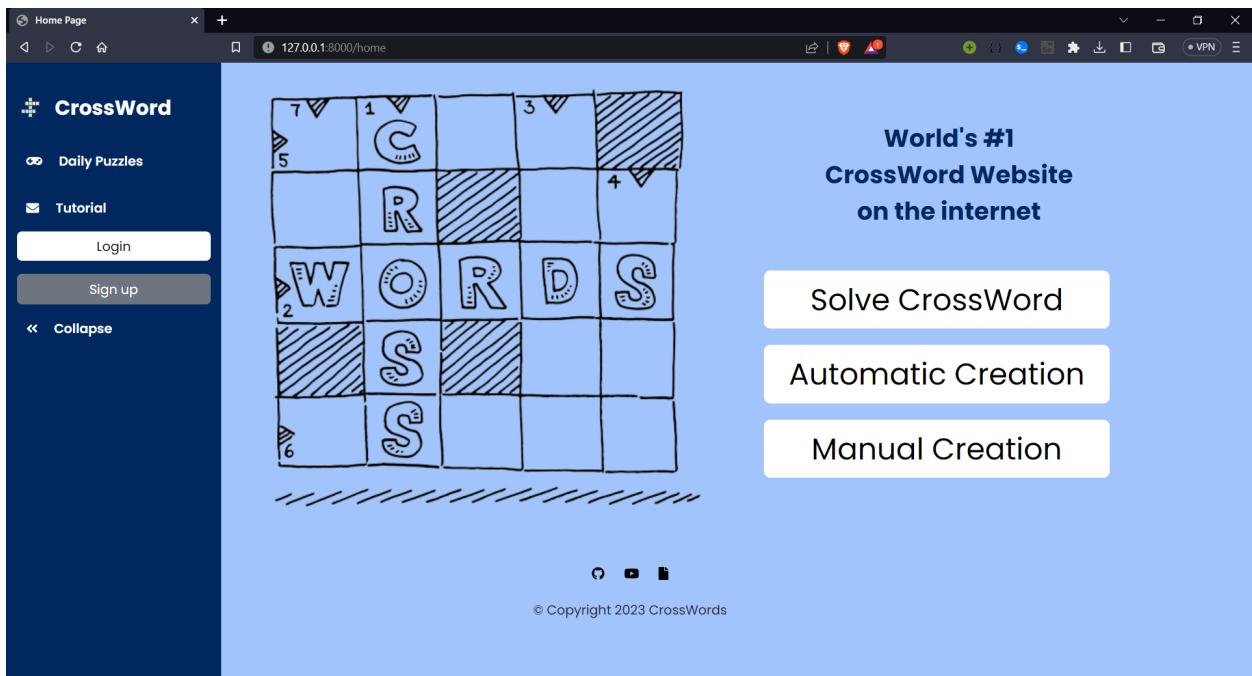
Test Result :

- a) Manual Testing
- b) Record and Reply Testing with Selenium

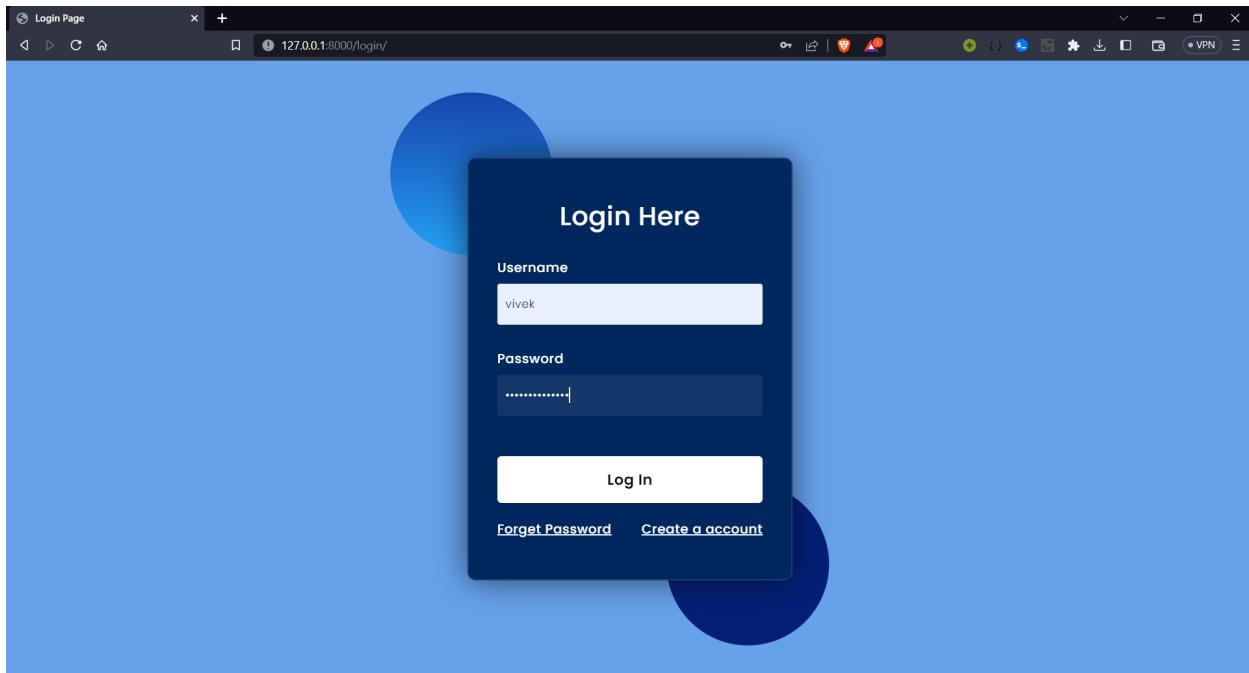
Test Results:

a) Manual Testing :

1. LOGIN



1.1 ON correct inputs

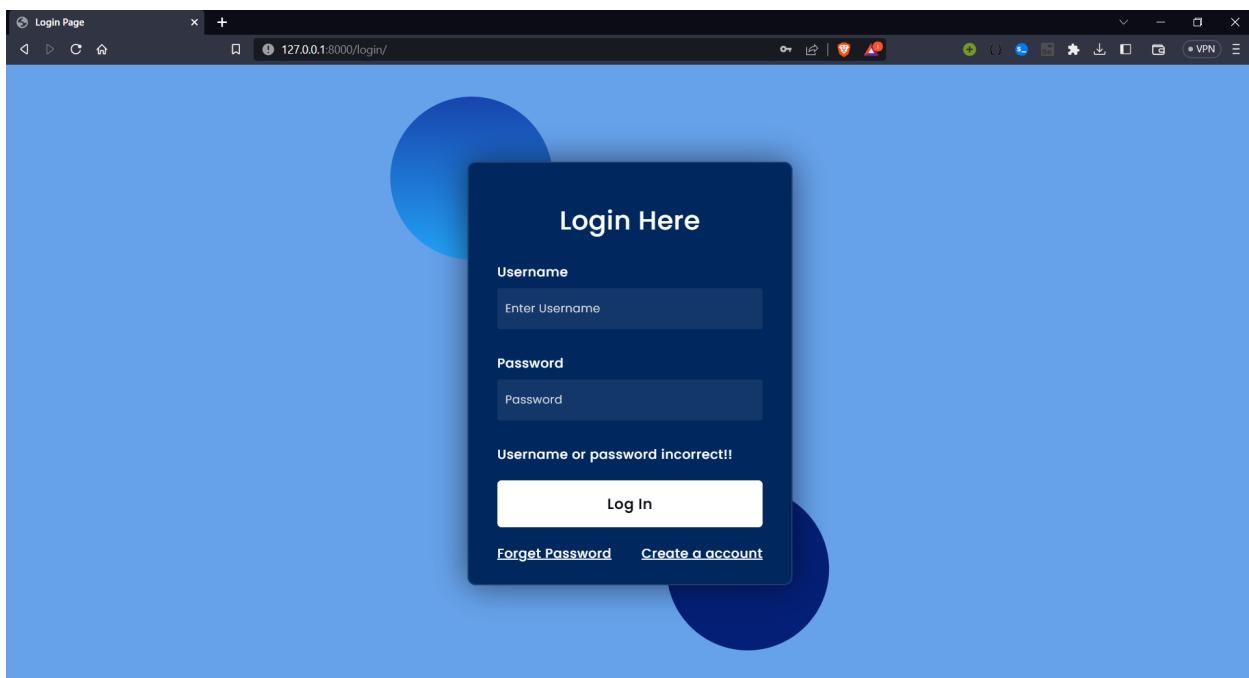
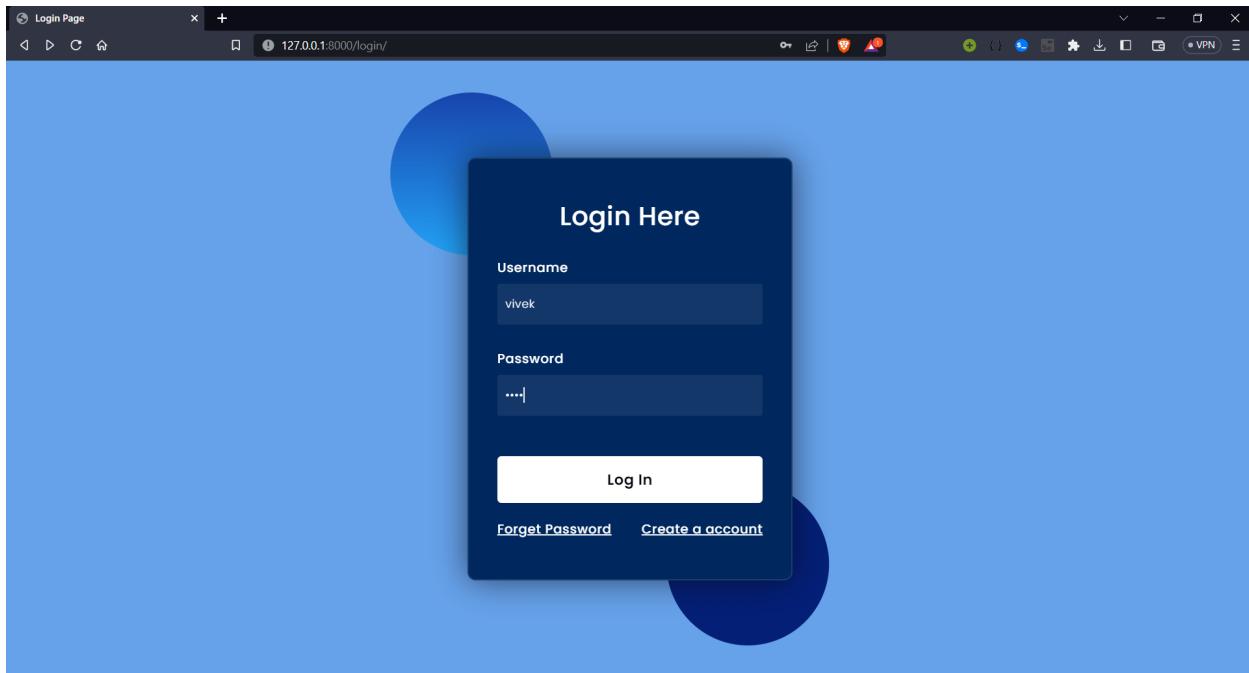


A screenshot of a web browser showing a crossword puzzle interface. The title bar says "Home Page". The URL in the address bar is "127.0.0.1:8000/home". On the left, there's a sidebar with a logo, the text "CrossWord", a user profile for "vivek", a "Daily Puzzles" section, a "Tutorial" section, a "Log Out" button, and a "Collapse" link. The main area shows a crossword grid with some letters filled in. The grid has the following visible entries:

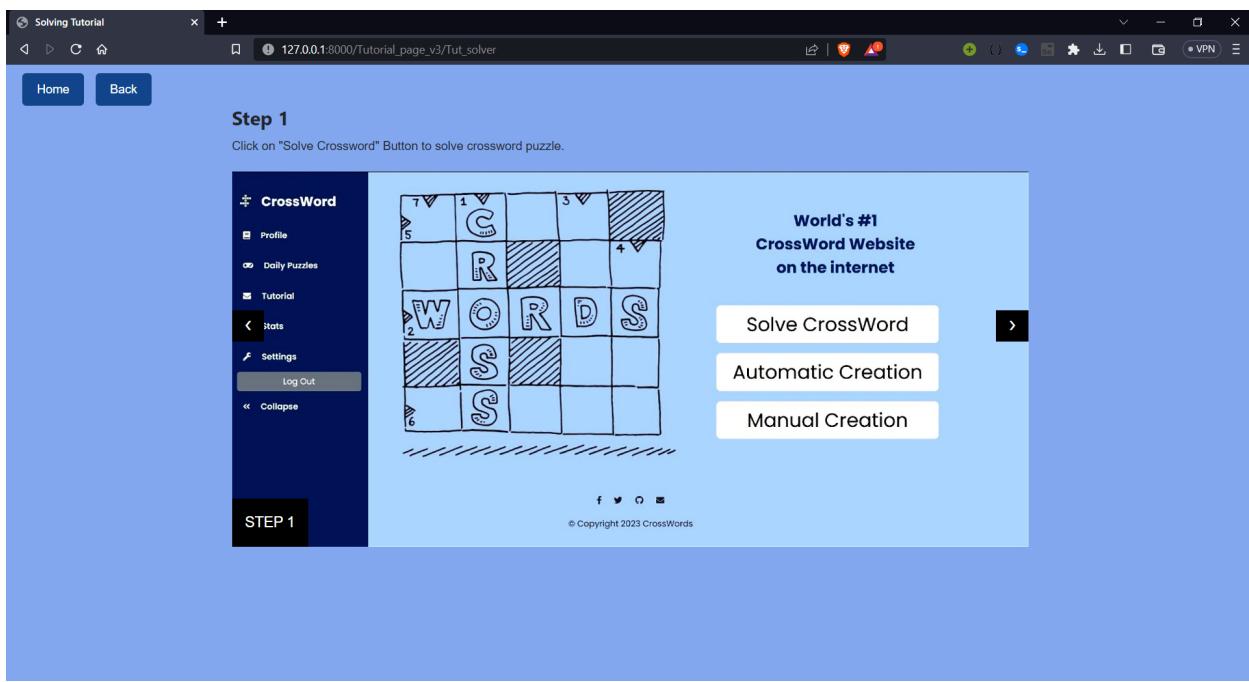
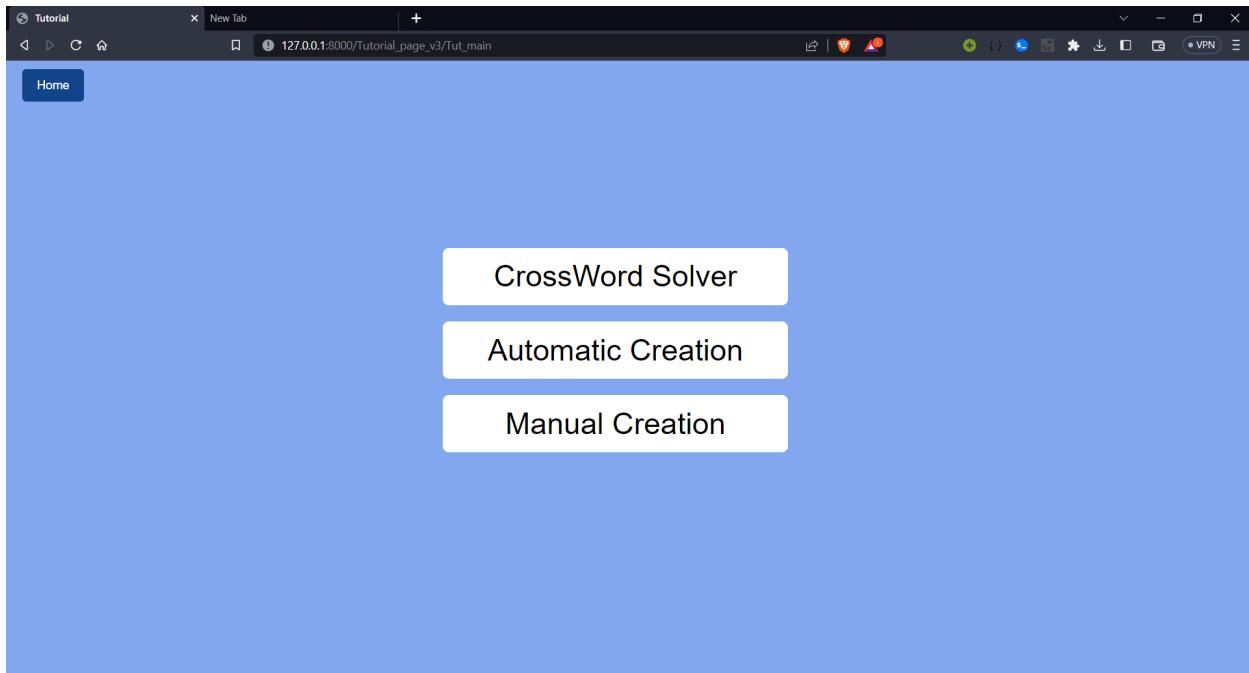
- Across:
 - 1: C
 - 2: W
 - 3: R
 - 4: O
 - 5: D
 - 6: S
 - 7: S
- Down:
 - 1: C
 - 2: R
 - 3: O
 - 4: R
 - 5: D
 - 6: S
 - 7: S

The right side of the page features the text "World's #1 CrossWord Website on the internet" and three buttons: "Solve CrossWord", "Automatic Creation", and "Manual Creation". At the bottom, there are small icons for search, video, and file, and the copyright notice "© Copyright 2023 CrossWords".

1.2 On incorrect inputs



2. Tutorial overview



3. Crossword Solving

Navbar New Tab +

127.0.0.1:8000/crossword_browsing

Crossword Puzzles

Rating Times Solved Avg Time Taken Order: Ascending Submit

Ramayan

Author: [vivek](#)

Description: This puzzle is about Ramayan char

Number of times Solve: 0

Rating: Not rated yet

Average Time: Not solved yet

Solve

Course

Author: [Dhyani_1234](#)

Description: Name of the subjects

Number of times Solve: 7.0

Rating: 4.67

Average Time: 30.0

Solve

car

Author: [Dhyani_1234](#)

Description: about cars

Log Out Collapse

This screenshot shows the Crossword Puzzles section of a web application. It displays three crossword puzzles: "Ramayan", "Course", and "car". Each puzzle card includes details like author, description, solve count, rating, and average time. A "Solve" button is present for each puzzle. On the left, there's a sidebar with user information (vivek), daily puzzles, tutorial, and log out/collapse buttons.

Solve Crossword New Tab +

127.0.0.1:8000/solve_crossword/644bad1ea31f9a32a3680b30/

Course

Timer: 00:00 Attempt: 1 vivek

Ready! Click to Start

Start

Submit

This screenshot shows the "Course" crossword puzzle interface. It features a large 10x10 grid where some squares are already filled with light blue. Two numbered arrows (1 and 2) point to specific squares within the grid, likely indicating starting points or directions for solving. The "Start" button is visible on the left, and the "Submit" button is on the right.

Solve Crossword

New Tab

Course

Attempt: 1

vivek

Timer: 00:14

Horizontal Clues

Vertical Clues

1.) about chemicals

1.) CALCULATION

2.) About forces and structure of matter

¹ C	H	E	¹ M	I	S	T	R	Y
-	-	-	A	-	-	-	-	-
-	-	-	T	-	-	-	-	-
-	-	² P	H	Y	S	I	C	S
-	-	-	S	-	-	-	-	-

Submit

Solve Crossword

New Tab

Course

Attempt: 1

vivek

Congratulations, correct answers X

Solved Correctly

Attempts taken: 1

Time Taken: 0 minutes and 23 seconds

Rate the puzzle:

★★★★★

[Submit Rating](#) [Home](#)

¹ C	H	E	¹ M	I	S	T	R	Y
-	-	-	A	-	-	-	-	-
-	-	-	T	-	-	-	-	-
-	-	² P	H	Y	S	I	C	S
-	-	-	S	-	-	-	-	-

4. Automation Creation

Create Crossword

Current Grid

Enter Title

Enter Description

Next

Create Crossword

Current Grid

New Word

New Clue

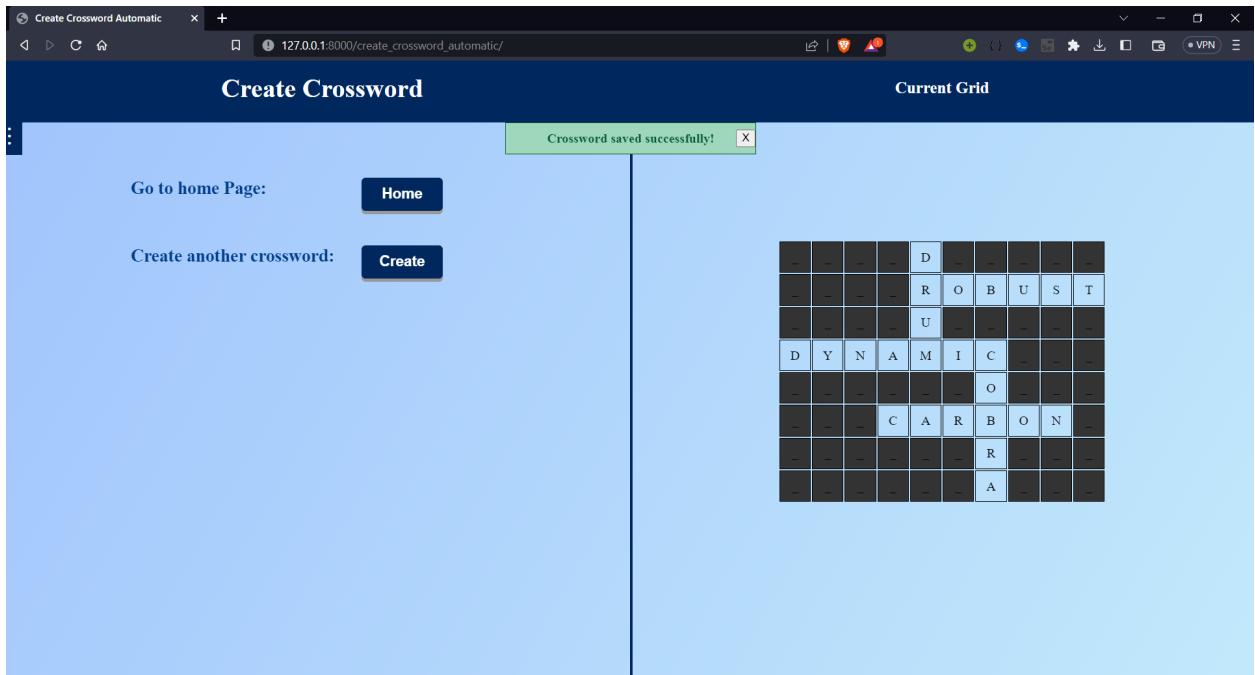
Add

Word	Clue
dynamic	which can change
drum	a heavy instrument
robust	quality of lasting long

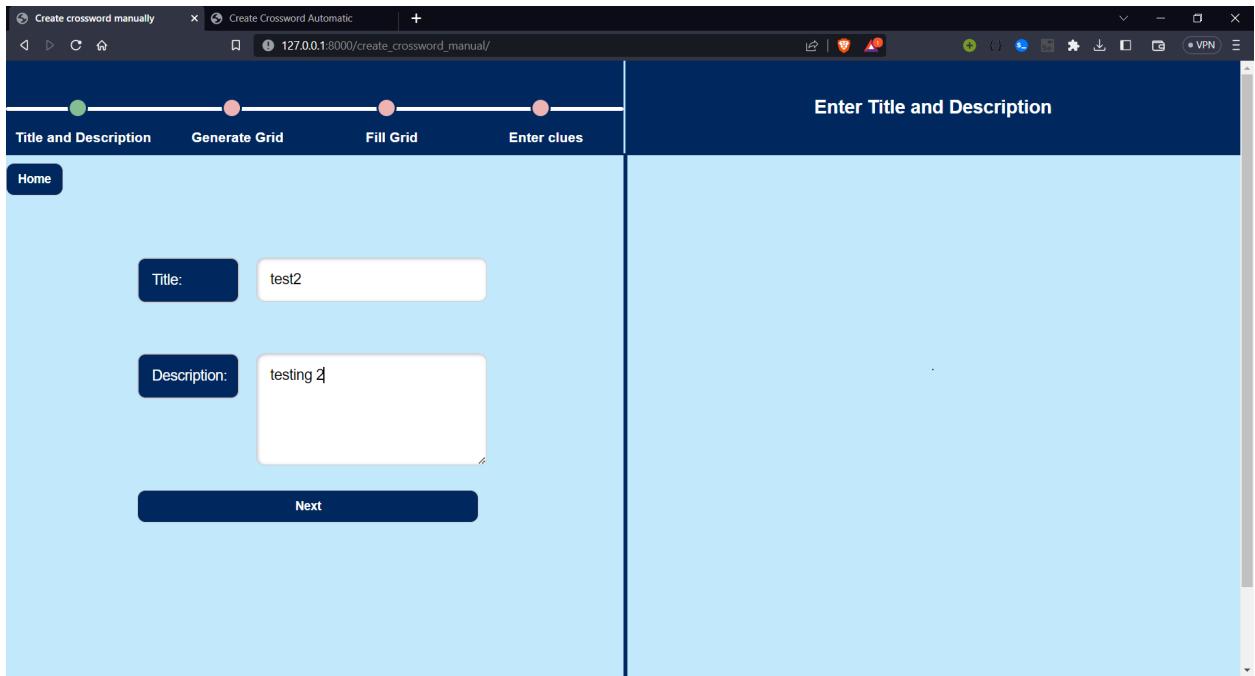
Generate

-	-	-	-	D	-	-	-	-	-
-	-	-	-	R	O	B	U	S	T
-	-	-	-	U	-	-	-	-	-
D	Y	N	A	M	I	C	-	-	-
-	-	-	-	-	O	-	-	-	-
-	-	-	C	A	R	B	O	N	-
-	-	-	-	-	R	-	-	-	-
-	-	-	-	-	A	-	-	-	-

Save



5. Manual Creation



Create crossword manually Create Crossword Automatic | +

127.0.0.1:8000/create_crossword_manual/

Title and Description Generate Grid Fill Grid Enter clues

Back

Rows: 3

Columns: 3

Next

Generate Grid

Create crossword manually Create Crossword Automatic | +

127.0.0.1:8000/create_crossword_manual/

Title and Description Generate Grid Fill Grid Enter clues

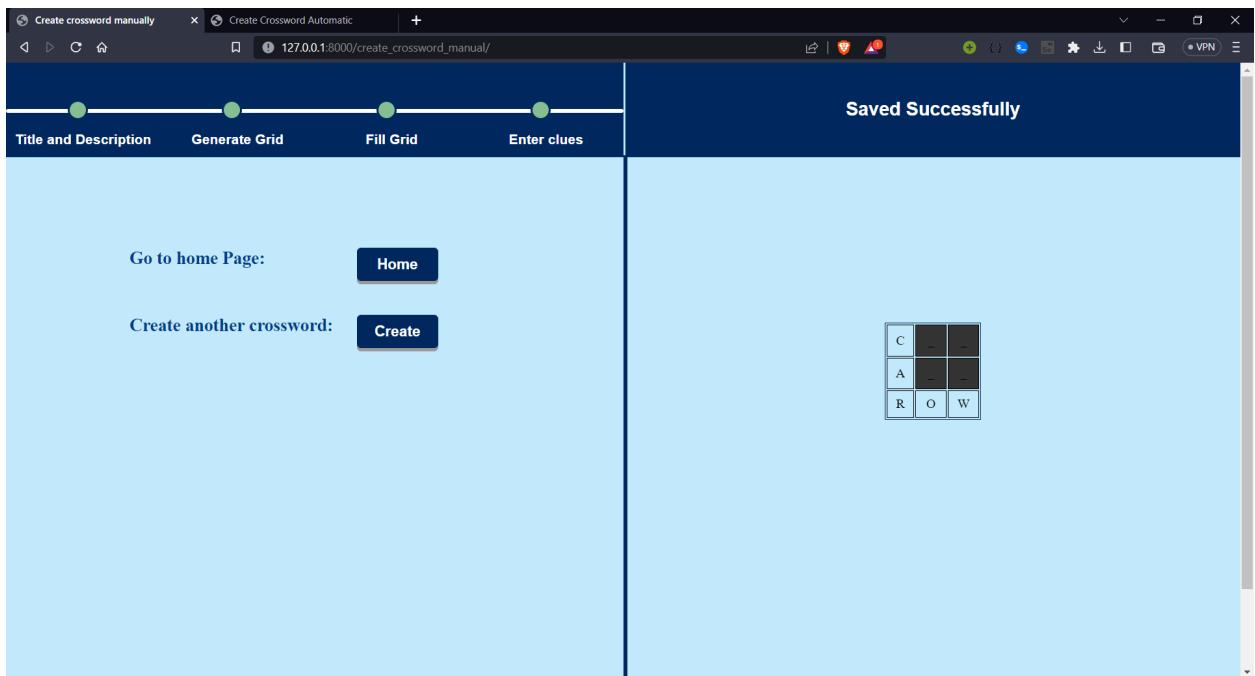
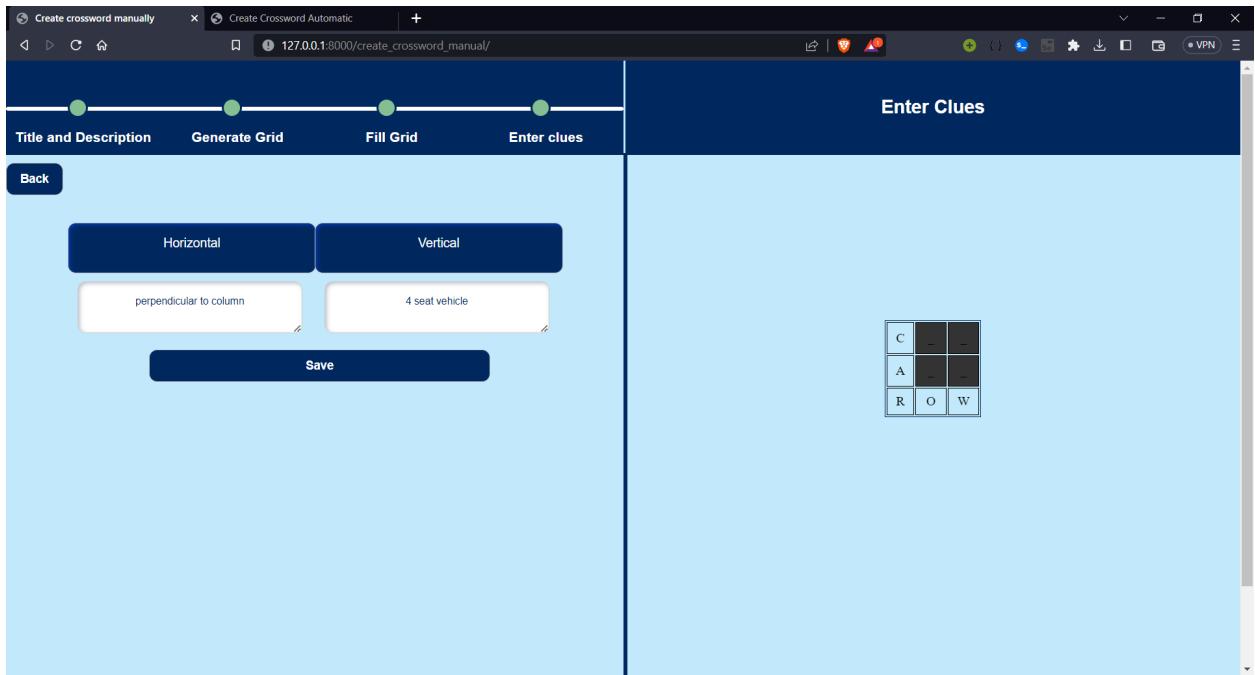
Back

A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z -

Active character: W

Next

Enter Clues



6. Profile

A screenshot of a web browser displaying a user profile page. The profile belongs to a user named "vivek". The interface includes a "Home" button, a placeholder profile picture, and a "Follow" button. Below the profile information, there are four metrics: Following (0), Followers (0), Solved (4), and Created (2). A section titled "Solved Problems" lists four entries, each with a title ("Course"), date ("04/28/2023"), and time taken ("22 seconds", "18 seconds", "5 seconds", "4 seconds").

Title	Date	Time Taken
Course	04/28/2023	22 seconds
Course	04/28/2023	18 seconds
Course	04/28/2023	5 seconds
Course	04/28/2023	4 seconds

A screenshot of a web browser displaying a user profile page for "vivek". The profile page structure is identical to the one above, featuring a "Home" button, a placeholder profile picture, and a "Follow" button. The metrics show Following (1), Followers (0), Solved (5), and Created (3). The "Solved Problems" section now displays three entries, all with zero solves and zero rating, and a time of "0 seconds".

Title	Number of times Solved	Rating	Avg Time
	0	0	0 seconds
	0	0	0 seconds
	0	0	0 seconds

7. Follow

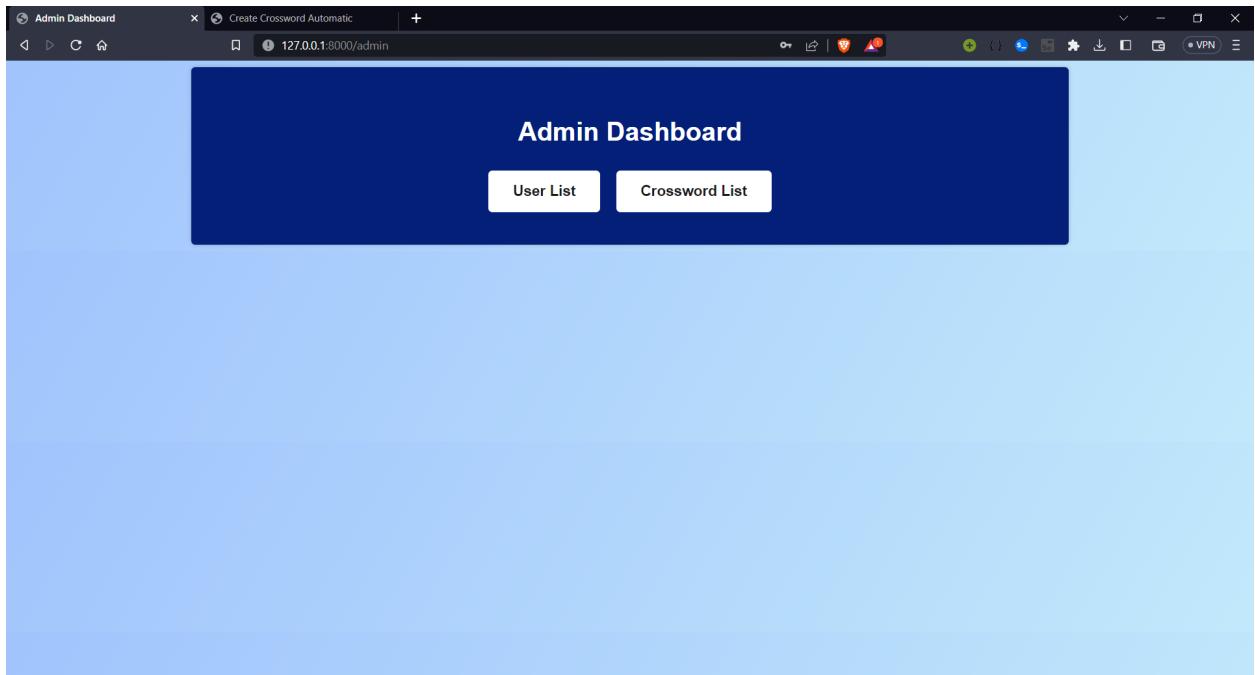
The screenshot shows a user profile page for a user named 'Dhyan_1234'. The top navigation bar includes tabs for 'Profile Page' and 'Create Crossword Automatic'. The URL in the address bar is 127.0.0.1:8000/profile/Dhyan_1234/. The main content area has a dark blue header with the user's name 'Dhyan_1234' and a 'unFollow' button. Below the header, there are four metrics: Following (0), Followers (1), Solved (4), and Created (4). A table below these metrics lists solved problems, showing five entries: 'Course' solved on 04/28/2023 with times taken of 26 seconds, 16 seconds, 67 seconds, and 54 seconds.

Title	Date	Time Taken
Course	04/28/2023	26 seconds
car	04/28/2023	16 seconds
Course	04/28/2023	67 seconds
Course	04/28/2023	54 seconds

The screenshot shows a user profile page for a user named 'vivek'. The top navigation bar includes tabs for 'Profile Page' and 'Create Crossword Automatic'. The URL in the address bar is 127.0.0.1:8000/profile/vivek/. The main content area has a dark blue header with the user's name 'vivek' and a 'Follow' button. Below the header, there are four metrics: Following (1), Followers (0), Solved (4), and Created (2). A table below these metrics lists solved problems, showing five entries: 'Course' solved on 04/28/2023 with times taken of 22 seconds, 18 seconds, 5 seconds, and 4 seconds.

Title	Date	Time Taken
Course	04/28/2023	22 seconds
Course	04/28/2023	18 seconds
Course	04/28/2023	5 seconds
Course	04/28/2023	4 seconds

8. Admin

A screenshot of a web browser window titled "User List". The address bar shows the URL "127.0.0.1:8000/admin/userList". The main content area displays a table with the following data:

Name	Email	Action
rudra	rudrapgohel@gmail.com	<button>Modify</button> <button>Delete</button>
Dhyan_1234	202001225@daiict.ac.in	<button>Modify</button> <button>Delete</button>
Jainam_1718	202001233@daiict.ac.in	<button>Modify</button> <button>Delete</button>
Jill	jillchaudhary39@gmail.com	<button>Modify</button> <button>Delete</button>
vivek	202001234@daiict.ac.in	<button>Modify</button> <button>Delete</button>
Dhy_ICT	dhyanpatel2632003@gmail.com	<button>Modify</button> <button>Delete</button>
Dhyan_263	dineshpatel27770@gmail.com	<button>Modify</button> <button>Delete</button>
HwakEye	ruchir1707@gmail.com	<button>Modify</button> <button>Delete</button>
hiten	hitennistry354@gmail.com	<button>Modify</button> <button>Delete</button>

ID	Title	Creator	Rating	Action
1	Ramayan	Jill	0	Delete
2	Course	Dhyan_1234	4.6666666666666667	Delete
3	car	Dhyan_1234	0	Delete
4	Animals	Dhyan_1234	0	Delete
5	Car	Dhyan_1234	0	Delete
6	Cars	HwakEye	5.0	Delete
7	sgfdfesvgbdsreadtfngewd	HwakEye	0	Delete
8	test1	vivek	0	Delete
9	test2	vivek	0	Delete

b) Record and Repeat Test

1. LOGIN

Project: LOGIN_SIGNUP

Executing: ✓ Login

http://127.0.0.1:8000

Command	Target	Value
✓ open	/	
✓ set window size	1552x840	
✓ click	id=login-button	
✓ click	id=username	
✓ type	id=username	vivek
✓ click	id=password	
✓ type	id=password	Vivek12345678@
✓ click	css=.submitBtn	
✓ click	id=logout-button	

Runs: 1 Failures: 0

Log Reference

```

4. click on id=username OK
5. type on id=username with value vivek OK
6. click on id=password OK
7. type on id=password with value Vivek12345678@ OK
8. click on css=.submitBtn OK
9. click on id=logout-button OK
'Login' completed successfully

```

19:10:59
19:11:00
19:11:00
19:11:00
19:11:01
19:11:01

2. Tutorial test

Selenium IDE - Tutorial_test

Project: Tutorial_test

Executing | Run all tests Ctrl+Shift+R 100

✓ Tut

Command	Target	Value
19 ✓ click	css= btn:nth-child(3)	
20 ✓ click	css= w3-display-right	
21 ✓ click	css= w3-display-right	
22 ✓ click	css= w3-display-right	
23 ✓ click	css= w3-display-right	
24 ✓ click	css= w3-display-right	
25 ✓ click	css= w3-display-right	
26 ✓ click	css= btn-back	
27 ✓ click	css= btn-home	

Command | Target | Value

Target | Value

Description

Runs: 1 Failures: 0

Log Reference

```
22. click on css= w3-display-right OK
23. click on css= w3-display-right OK
24. click on css= w3-display-right OK
25. click on css= w3-display-right OK
26. click on css= btn-back OK
27. click on css= btn-home OK
'Tut' completed successfully
```

19:18:41
19:18:41
19:18:41
19:18:42
19:18:43
19:18:44
19:18:45

3. Puzzle Solving test

Selenium IDE - SOLVE

Project: SOLVE

Executing | Run all tests Ctrl+Shift+R 00

✓ Solve_puz

Command	Target	Value
6 ✓ click	css= row:nth-child(2).btn	
7 ✓ click	css= startDivButton	
8 ✓ click	id=AnswerInputHor1	
9 ✓ type	id=AnswerInputHor1	chemistry
10 ✓ type	id=AnswerInputHor2	physics
11 ✓ type	css= lowerDivLeftVerClues_cluesInput	maths
12 ✓ click	css= submitButton	
13 ✓ click	css= starempty:nth-child(5)	
14 ✓ click	css= ratingSubmitButton	

Command | Target | Value

Target | Value

Description

Runs: 1 Failures: 0

Log Reference

```
9. type on id=AnswerInputHor1 with value chemistry OK
10. type on id=AnswerInputHor2 with value physics OK
11. type on css= lowerDivLeftVerClues_cluesInput with value maths OK
12. click on css= submitButton OK
13. click on css= starempty:nth-child(5) OK
14. click on css= ratingSubmitButton OK
'Solve_puz' completed successfully
```

20:56:26
20:56:27
20:56:28
20:56:29
20:56:30
20:56:31
20:56:32

4. Automation Creation

Selenium IDE - Auto_test

Project: Auto_test

Executing | Run all tests Ctrl+Shift+R 100

Command	Target	Value
13 ✓ click	css=addButton	
14 ✓ click	css=lowerDiv.leftMainInputRow <input type="text"/> Step2	
15 ✓ type	css=lowerDiv.leftMainInputRow <input type="text"/> Step2	rat
16 ✓ click	css=lowerDiv.leftMainInputRow <input type="text"/> Textarea	
17 ✓ type	css=lowerDiv.leftMainInputRow <input type="text"/> Textarea	cat's favorite food
18 ✓ click	css=addButton	
19 ✓ click	css=generateBtn	
20 ✓ click	css=saveButton	
21 ✓ click	css=goHomeBtn	

Runs: 1 Failures: 0

Description

Log Reference

```
16. click on css=lowerDiv.leftMainInputRow OK
17. type on css=lowerDiv.leftMainInputRow with value cat's favorite food OK
18. click on css=addButton OK
19. click on css=generateBtn OK
20. click on css=saveButton OK
21. click on css=goHomeBtn OK
'Auto_test' completed successfully
```

5. Manual Creation

Selenium IDE - Manual_test

Project: Manual_test

Executing | Run all tests Ctrl+Shift+R 00

Command	Target	Value
25 ✓ click	css=tr:nth-child(3) > crosswordGridCellBlock:nth-child(4) > gridCellDiv	
26 ✓ click	css=tr:nth-child(2) > td:nth-child(6) > div	
27 ✓ click	css=crosswordGridCellBlock:nth-child(4) > gridCellDiv	
28 ✓ click	id=LeftNextBtnCluesStep3	
29 ✓ click	css=html	
30 ✓ double click	css=fillCluesColumn:nth-child(1) > fillCluesColumnClue	
31 ✓ click	css=fillCluesColumn:nth-child(1) > fillCluesColumnClue	a flying creature
32 ✓ type	css=fillCluesColumn:nth-child(2) > fillCluesColumnClue	a flying creature
33 ✓ click	css=fillCluesColumn:nth-child(2) > fillCluesColumnClue	

Runs: 1 Failures: 0

Description

Log Reference

```
34. click on css=fillCluesColumn:nth-child(1) > fillCluesColumnClue OK
35. type on css=fillCluesColumn:nth-child(1) > fillCluesColumnClue with value flying creatures OK
36. click on css=fillCluesColumn:nth-child(2) > fillCluesColumnClue OK
37. type on css=fillCluesColumn:nth-child(2) > fillCluesColumnClue with value a musical instrument OK
38. click on id=LeftNextBtnSetClues OK
39. Trying to find css=goHomeBtn... OK
'Manual_test' completed successfully
```

6. Profile

Selenium IDE - Profile_test

Project: Profile_test

Executing | Run all tests Ctrl+Shift+R 00

Command	Target	Value
1 ✓ open	/	
2 ✓ set window size	1552x840	
3 ✓ click	css= list-group-item:nth-child(2).sidebar-text	
4 ✓ click	css= tablinks:nth-child(2)	
5 ✓ click	id=defaultOpen	
6 ✓ click	css= tablinks:nth-child(2)	
7 ✓ click	css= full	
8 ✓ click	id=defaultOpen	

Command Target Value

Target

Value

Description

Runs: 1 Failures: 0

Log Reference

```

3. click on css= list-group-item:nth-child(2).sidebar-text OK
4. click on css= tablinks:nth-child(2) OK
5. click on id=defaultOpen OK
6. click on css= tablinks:nth-child(2) OK
7. click on css= full OK
8. click on id=defaultOpen OK
'Profile_test' completed successfully

```

21:53:00
21:53:01
21:53:02
21:53:03
21:53:04
21:53:04
21:53:04

7. Follow

Selenium IDE - Follow_test

Project: Follow_test

Executing | Run all tests Ctrl+Shift+R 00

Command	Target	Value
1 ✓ open	/	
2 ✓ set window size	1552x840	
3 ✓ click	css=solve	
4 ✓ click	linkText=HwakEye	
5 ✓ click	name=ActionFollow	
6 ✓ click	id=home-Btn	
7 ✓ click	css= list-group-item:nth-child(2).sidebar-text	
8 ✓ click	css= full	

Command Target Value

Target

Value

Description

Runs: 1 Failures: 0

Log Reference

```

3. click on css= solve OK
4. click on linkText=HwakEye OK
5. click on name=ActionFollow OK
6. click on id=home-Btn OK
7. click on css= list-group-item:nth-child(2).sidebar-text OK
8. click on css= full OK
'Follow_test' completed successfully

```

22:12:36
22:12:37
22:12:45
22:12:46
22:12:49
22:12:50
22:12:51

Test Result :

Here we run all the .side Scripts for record and reply testing on all three browsers and test the results. The application works the same on all the browsers without UX difference. We used Selenium IDE for this test run and it supported all the browsers we used.