

SOFTWARE TESTING

IN

EDUCATIONAL PLATFORM
ITC COLLEGE





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Group Code

Software Tester_GHR_SWD7_Mle

Content

- 01** [Introduction](#)
- 02** [Testing stages](#)
- 03** [Project Process](#)
- 04** [Tools](#)
- 05** [Challenges](#)
- 06** [Reports](#)
- 07** [Links](#)

INTRODUCTION

Our project focuses on implementing a comprehensive testing approach to ensure the platform's core functionalities are not only reliable but also optimized for efficiency and free from critical issues.



TESTING STAGES

1

Manual testing

2

APIs testing

3

Performance testing

4

Automation testing

dep project - Timeline - Jira

maiatef.atlassian.net/jira/software/projects/SCRUM/boards/1/timeline

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dep project Software project

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Timeline

Search timeline Status category Epic View settings

Oct 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1

Sprints

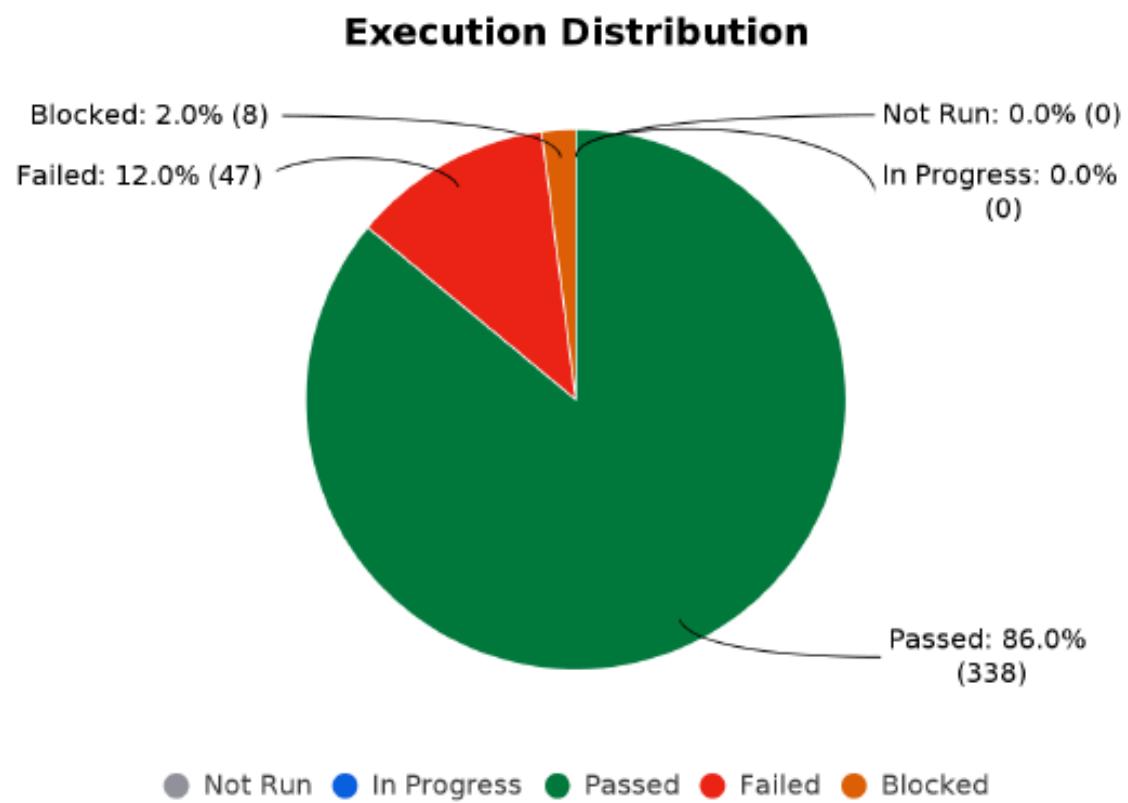
SCRUM Sprint 2, API&Performance testing

	Oct 10	Oct 11	Oct 12	Oct 13	Oct 14	Oct 15	Oct 16	Oct 17	Oct 18	Oct 19	Oct 20	Oct 21	Oct 22	Oct 23	Oct 24	Oct 25	Oct 26	Oct 27	Oct 28	Oct 29	Oct 30	Oct 31	Oct 1
SCRM-1 login																							
SCRM-2 logout																							
SCRM-3 view profile																							
SCRM-4 dashboard																							
SCRM-5 administration																							
SCRM-6 student																							
SCRM-7 Exam																							
SCRM-8 HR																							
SCRM-11 SETTING SECTION																							

Screen Recorder is sharing your screen. Stop sharing Hide

Today Weeks Months Quarters

7:22 PM



Manual testing

Execution Summary (Grouping: Folders, Filter: Only non-empty items)

Folder	Case Count	Not Run	In Progress	Passed	Failed	Blocked	Defect Count
depi project	393	0	0	338	47	8	28
Not Assigned	393	0	0	338	47	8	28
Total	393	0	0	338	47	8	28

Defect Summary (Latest Runs)



APIs testing

Summary Total Requests Failed Tests Skipped Tests

Newman Run Dashboard

Wednesday, 16 October 2024 14:43:57

TOTAL ITERATIONS: 1 

TOTAL ASSERTIONS: 23 

TOTAL FAILED TESTS: 5 

TOTAL SKIPPED TESTS: 0 

FILE INFORMATION

Collection: depi project
Environment: my environment

TIMINGS AND DATA

Total run duration: 7.4s
Total data received: 660.54KB
Average response time: 699ms

SUMMARY ITEM	TOTAL	FAILED
Requests	8	0
Prerequest Scripts	7	0
Test Scripts	8	0
Assertions	23	5
Skipped Tests	0	-



Performance testing

Summary Report

Name:

Comments:

- Write results to file / Read from file

Filename

Log/Display Only: Errors Successes

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
specific teacher ...	50	1997	1150	4966	713.60	6.00%	29.1/min	6.25	1.16	13192.0
staffs list	50	1899	1130	9731	1196.74	2.00%	29.4/min	6.32	1.17	13191.9
item to search	50	1477	1046	3212	462.22	4.00%	29.7/min	6.17	0.16	12761.0
notification	50	1724	1040	11888	1926.24	6.00%	27.3/min	5.68	0.16	12760.9
teachers list	50	1757	1134	5035	685.98	2.00%	27.3/min	5.87	1.09	13192.0
student-list	50	2713	1155	18484	2913.49	6.00%	27.0/min	5.81	3.41	13192.0
filter students wi...	50	1587	992	4400	528.48	0.00%	27.4/min	5.88	0.13	13192.0
TOTAL	350	1879	992	18484	1516.50	3.71%	2.9/sec	36.85	6.48	13068.8

Aggregate Report

Name:

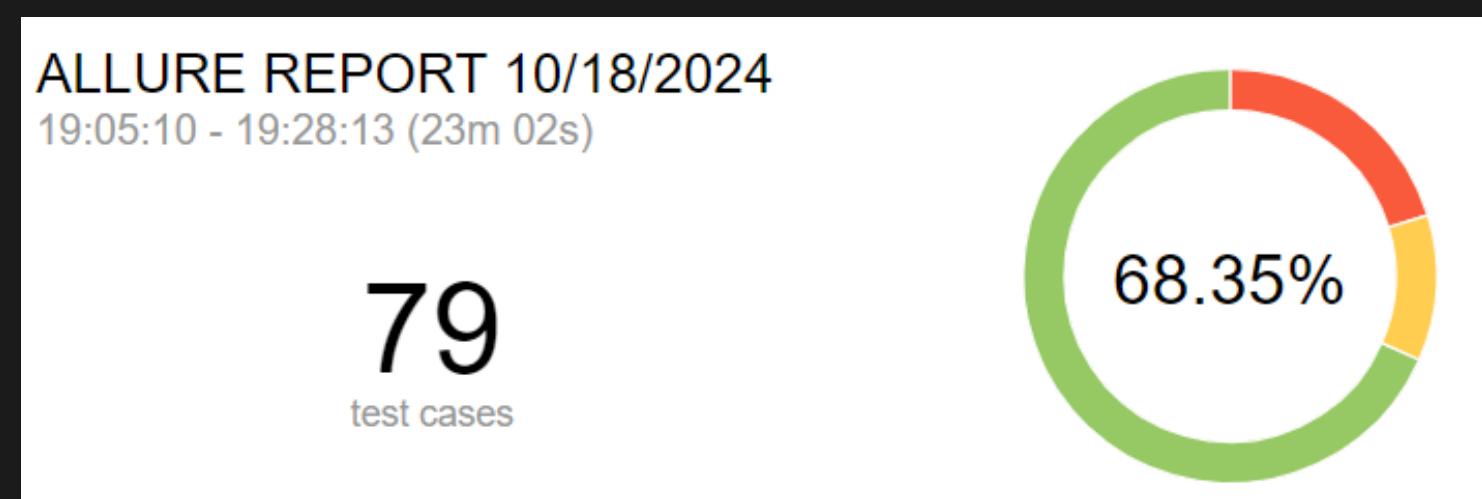
Comments:

- Write results to file / Read from file

Filename

Log/Display Only: Errors Successes

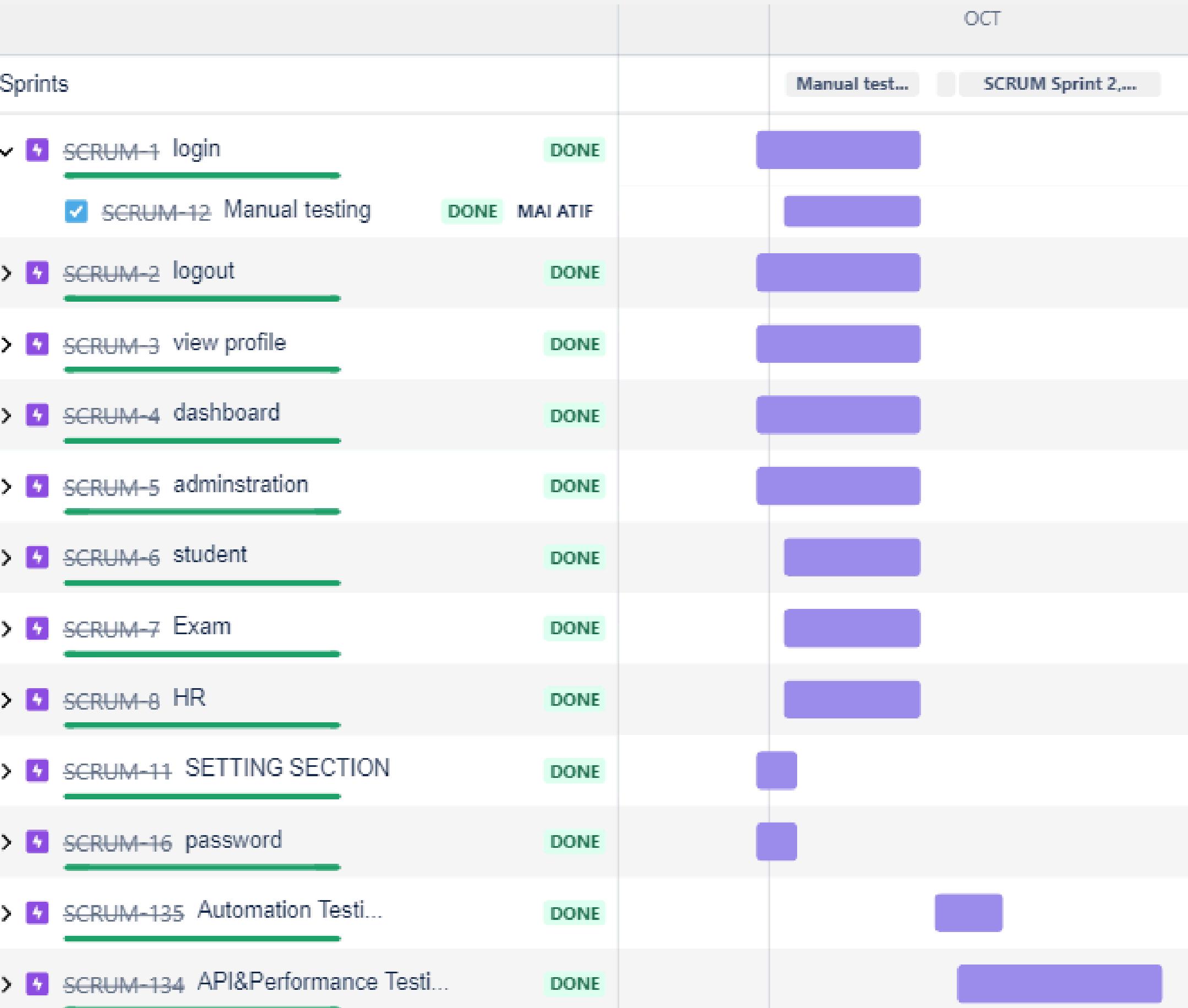
Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/...	Sent KB/sec
specific teac...	51	1987	1828	2757	2880	3875	1150	4966	5.88%	4.7/min	1.01	0.19
staffs list	51	1883	1626	2486	2614	2776	1081	9731	1.96%	4.7/min	1.01	0.19
item to search	51	1454	1347	1927	1997	3113	284	3212	5.88%	4.7/min	0.97	0.02
notification	50	1724	1244	1793	1924	11888	1040	11888	6.00%	27.3/min	5.68	0.16
teachers list	50	1757	1559	2381	2462	5035	1134	5035	2.00%	27.3/min	5.87	1.09
student-list	50	2713	1930	3565	4444	18484	1155	18484	6.00%	27.0/min	5.81	3.41
filter students...	50	1587	1444	2032	2105	4400	992	4400	0.00%	27.4/min	5.88	0.13
TOTAL	353	1871	1538	2523	3125	9731	284	18484	3.97%	32.5/min	6.89	1.21



Automation testing using Cypress



Spec	Tests	Passing	Failing	Pending	Skipped
✗ Class.cy.js	02:29	4	3	1	-
✗ Assign_class_teacher.cy.js	00:57	2	1	1	-
✗ Section.cy.js	01:18	5	3	2	-
✓ Subjects.cy.js	00:56	3	3	-	-
✓ topic.cy.js	00:35	2	2	-	-
✓ Upload_content.cy.js	00:35	2	2	-	-
✓ addStaff.cy.js	00:32	3	3	-	-
✗ marksGrade.cy.js	00:56	6	4	2	-
✗ onlineExam.cy.js	00:38	3	2	1	-
✓ staffAttendance.cy.js	00:36	4	4	-	-
✗ loginLogout.cy.js	00:55	9	5	4	-
✗ changePassword.cy.js	01:08	4	3	1	-
✗ viewProfile.cy.js	06:18	19	10	9	-
✗ dashboard.cy.js	03:25	10	5	5	-
✗ 9 of 15 failed (60%)	22:28	81	55	26	-



Project Progress

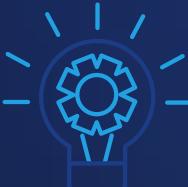
Timeline in Jira

Testing Tools



Manual Testing

Jira for test case management and defect tracking.



API Testing

Postman and **Newman** for automated API validation.



Automation

Cypress for end-to-end testing of critical interactions.



Performance

JMeter for load testing and performance analysis.

Challenges

1

Manual vs Automated
Strategic balance between testing methods.

2

Feature Prioritization
Focus on business-critical functionalities.

3

API Testing Challenges
Overcoming limited documentation through manual extraction.

4

Time Management
Optimizing testing within constraints.



Links



[Tested_Websit](#)



[Jira_Board](#)

thank
you

