Deliverable D – SE D3

White Box Testing Results
ProjectPulse

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Project Title: **Project Pulse**
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13. White Box Test Cases

The WhiteBox Testcases can be found in the code of the Project , as well as the designated 'testing' branches of the github repo

Main Branch : https://github.com/minahilali117/ProjectPulse
Whitebox testing : https://github.com/minahilali117/ProjectPulse/tree/testing
Testing Workflows : https://github.com/minahilali117/ProjectPulse/tree/workflow-TESTING-BRANCH

13.1 FrontEnd White Box Testing results

All files

42.77% Statements 293/685   42.16% Branches 121/287   32.06% Functions 84/262   42.98% Lines 288/670

Press n or j to go to the next uncovered block, b, p or k for the previous block.

Filter:

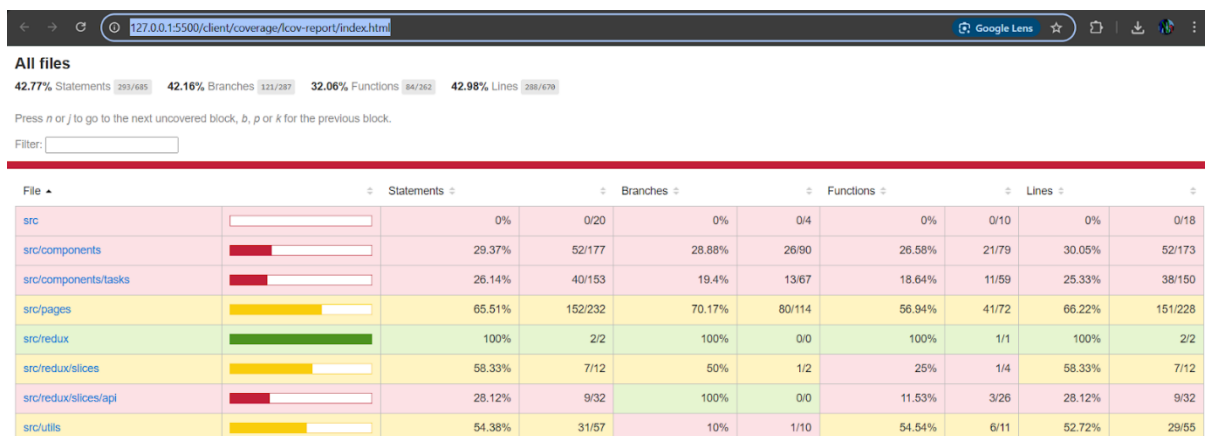| File ▲		Statements		Branches		Functions		Lines	
src		0%	0/20	0%	0/4	0%	0/10	0%	0/18
src/components		29.37%	52/177	28.88%	26/90	26.58%	21/79	30.05%	52/173
src/components/tasks		26.14%	40/153	19.4%	13/67	18.64%	11/59	25.33%	38/150
src/pages		65.51%	152/232	70.17%	80/114	56.94%	41/72	66.22%	151/228
src/redux		100%	2/2	100%	0/0	100%	1/1	100%	2/2
src/redux/slices		58.33%	7/12	50%	1/2	25%	1/4	58.33%	7/12
src/redux/slices/api		28.12%	9/32	100%	0/0	11.53%	3/26	28.12%	9/32
src/utils		54.38%	31/57	10%	1/10	54.54%	6/11	52.72%	29/55

fig: white box Testing results pt1

Created .test.jsx files to test for most of the functionalities (.js files)

Run using command : npm run test:coverage

43 % statements coverage

42 % branches coverage

32 % functions coverage

43 % lines coverage

13.2 Backend White Box Testing Results

All files
77.4% Statements 257/332   **52.08%** Branches 50/96   **82.35%** Functions 28/34   **77.34%** Lines 256/331

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter:

File ▲		Statements		Branches		Functions		Lines	
controllers		73.64%	190/258	50%	40/80	80.76%	21/26	73.54%	189/257
middleware		80.76%	21/26	64.28%	9/14	100%	4/4	80.76%	21/26
models		84.61%	11/13	50%	1/2	50%	1/2	84.61%	11/13
routes		100%	27/27	100%	0/0	100%	0/0	100%	27/27
utils		100%	8/8	100%	0/0	100%	2/2	100%	8/8

fig: white box Testing results pt2

Created .test.js files to test for most of files (.js files) present at the backend(server) directory.

Run using command : npm run test

77.4 % statements coverage

52.1 % branches coverage

82.4 % functions coverage

77.3 % lines coverage

13.3 White Box Testing with Github Workflows results
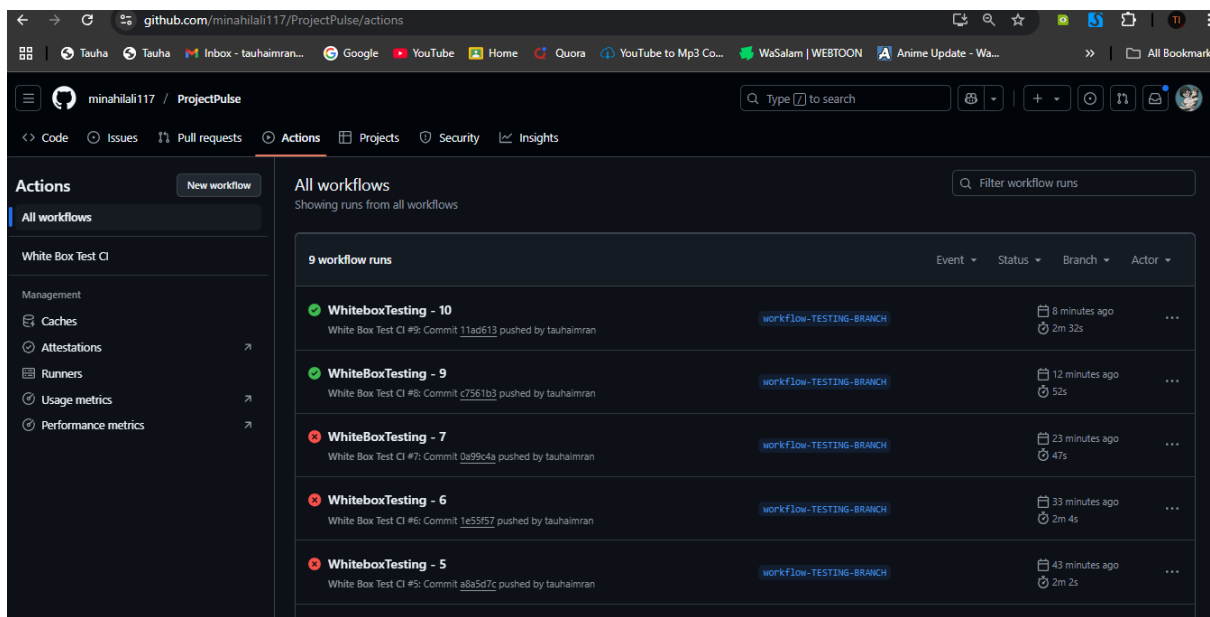

fig: white box Testing github workflow pt 1

Attempts to run White Box testing with github Workflows were also made. The figure above shows the attempts made and how many workflows were successful. Some detailed pictures of the workflow are shown below
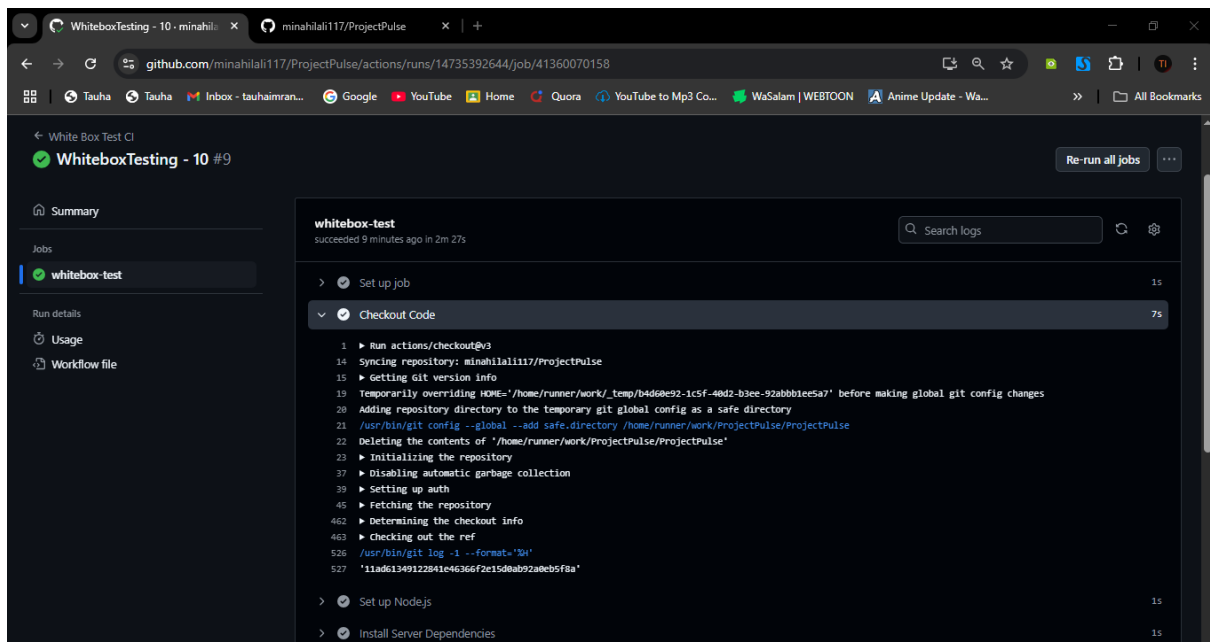

fig: white box Testing github workflow pt 2

fig: white box Testing github workflow pt 3