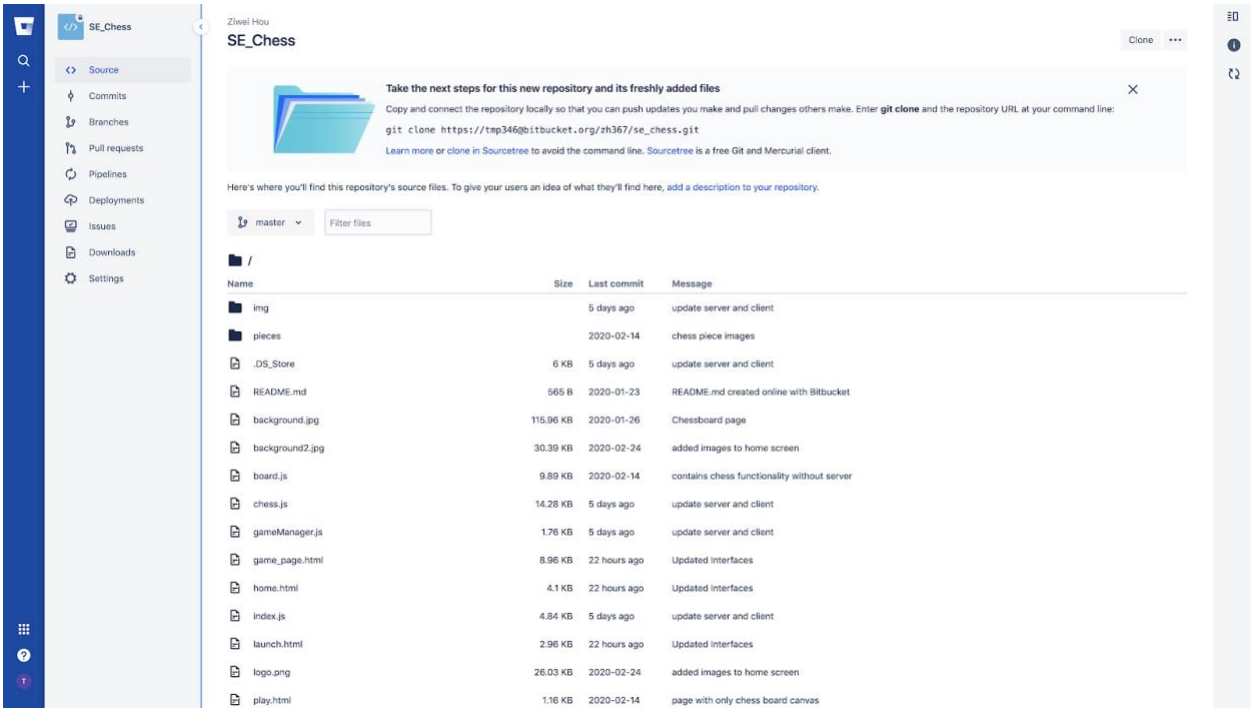
Khanh Tran, Tuan Phan Nguyen, Ziwei, Venglee Heng, Michael Wu - Group 5 - SE181

Software Tools

Version Control

We use BitBucket as our version control software. The software allows us to work on the same repository at the same time and see the newest updated. We can also revert the changes to the previous commit and merge conflict changes.



Static Analysis Tool

For the static analysis tool, we use ESLint which is a famous static analysis tool for JavaScript. It yields error on not only the syntactical error but also the stylistic error which helps us a lot in spotting those errors.

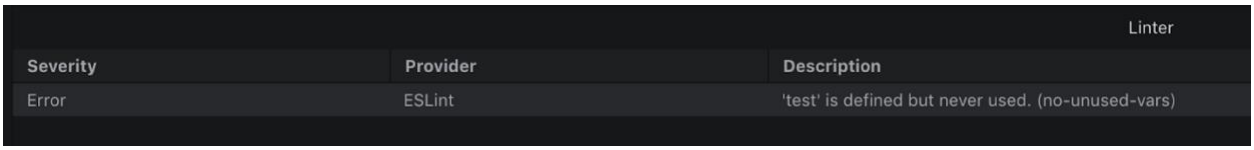


Figure 2: ESLint example error report

Test Running Tool

We use Mocha for our test running tool. It gives us a rich set of interfaces for asserting different objects and run our test cases.

Figure 3: The unit tests for the project

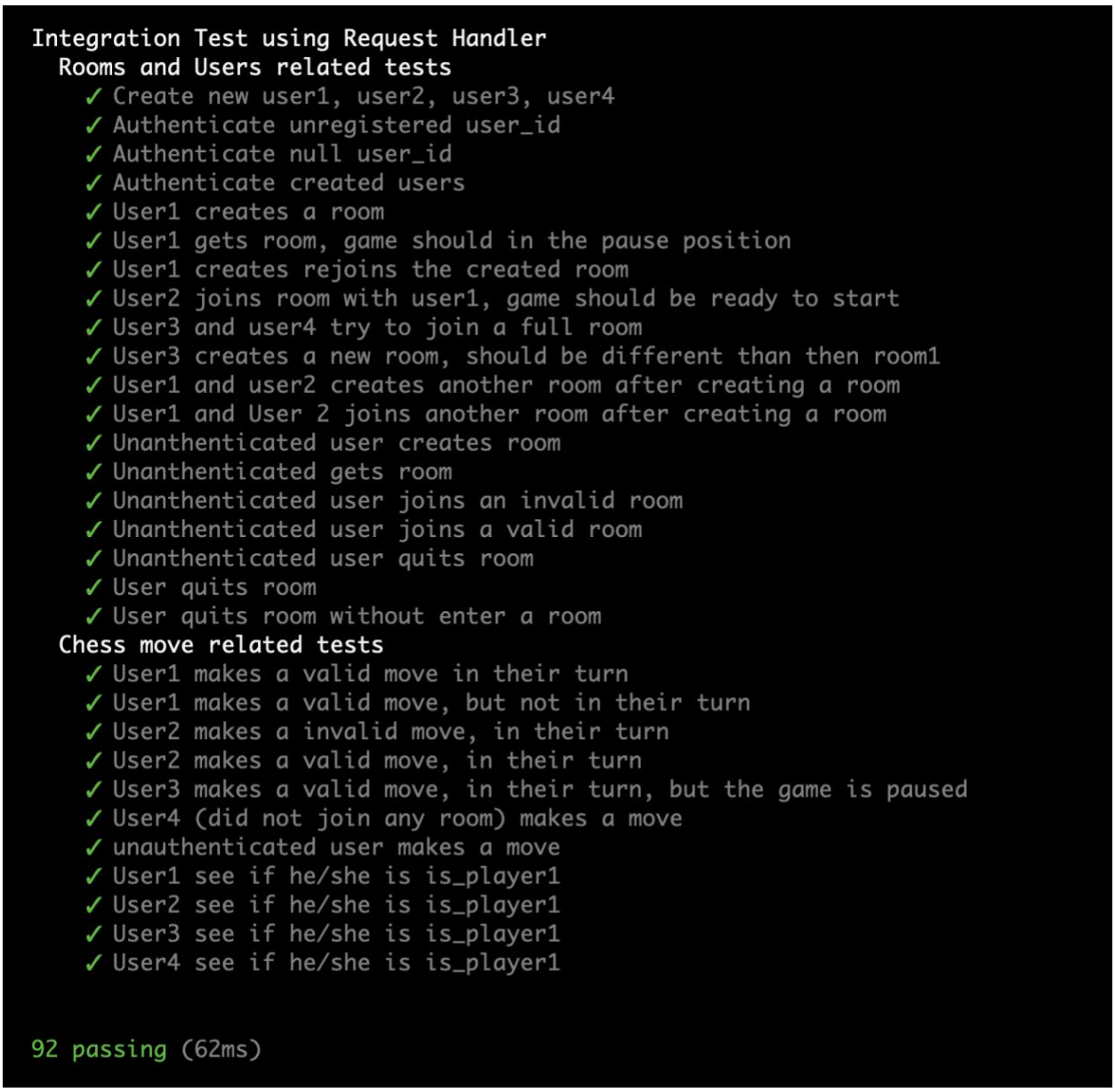
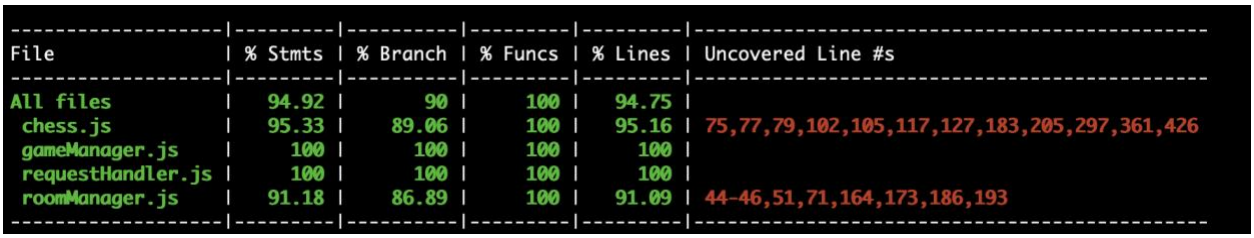


Figure 4: The integration tests for the project

Code Coverage Tool

We use Istanbul.JS for our code coverage tool. It gives us a summary table about the percentage of statements, branch, functions, and lines of code that our tests have covered.



File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	94.92	90	100	94.75	
chess.js	95.33	89.06	100	95.16	75,77,79,102,105,117,127,183,205,297,361,426
gameManager.js	100	100	100	100	
requestHandler.js	100	100	100	100	
roomManager.js	91.18	86.89	100	91.09	44-46,51,71,164,173,186,193

Figure 5: The code coverage report table

Bug Tracking Tool

The BitBucket offers the issue and bug tracking tool that we can use to track and create any issue or bugs related to the project.

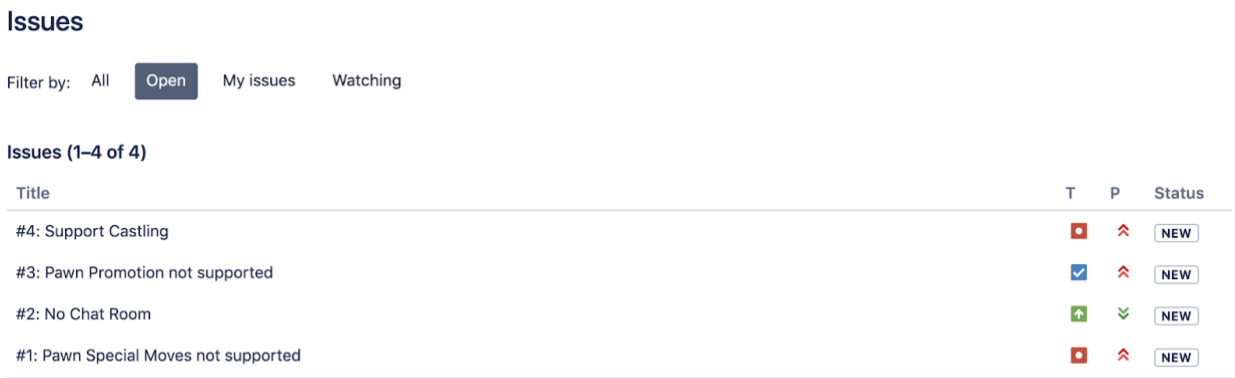


Figure 6: Bug tracking tool in BitBucket