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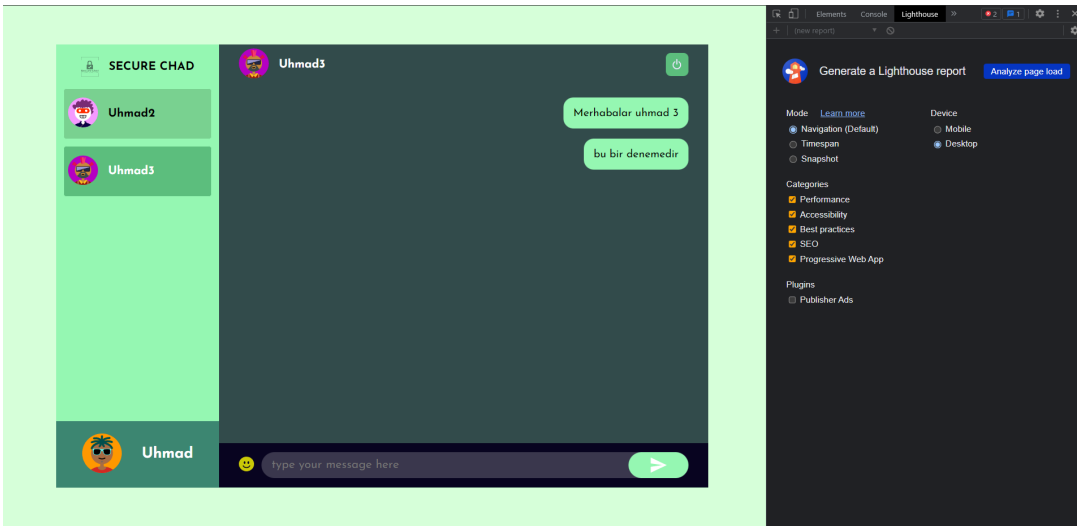
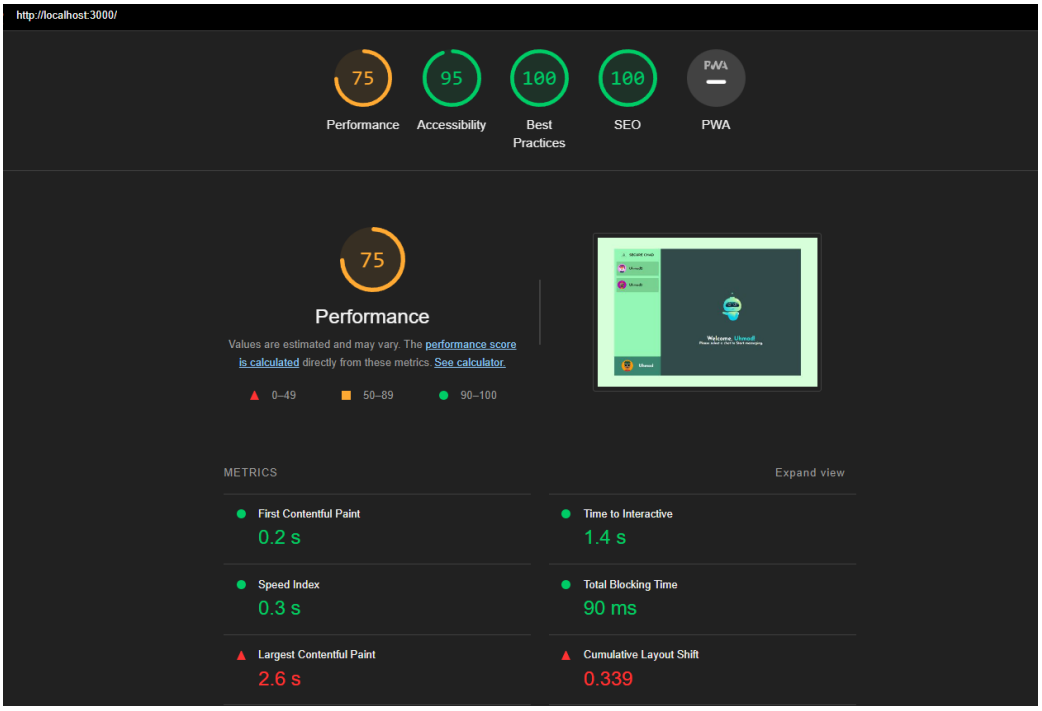
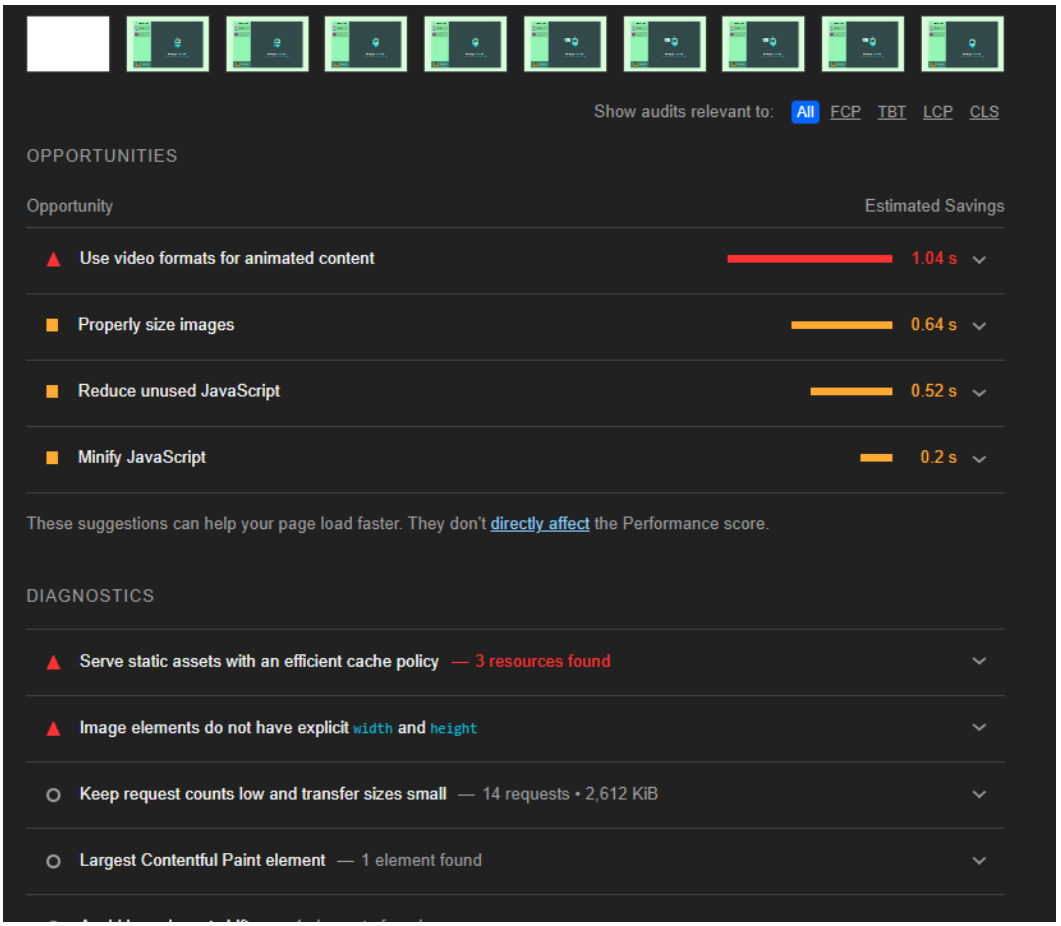
Secure Chad Software Testing Report

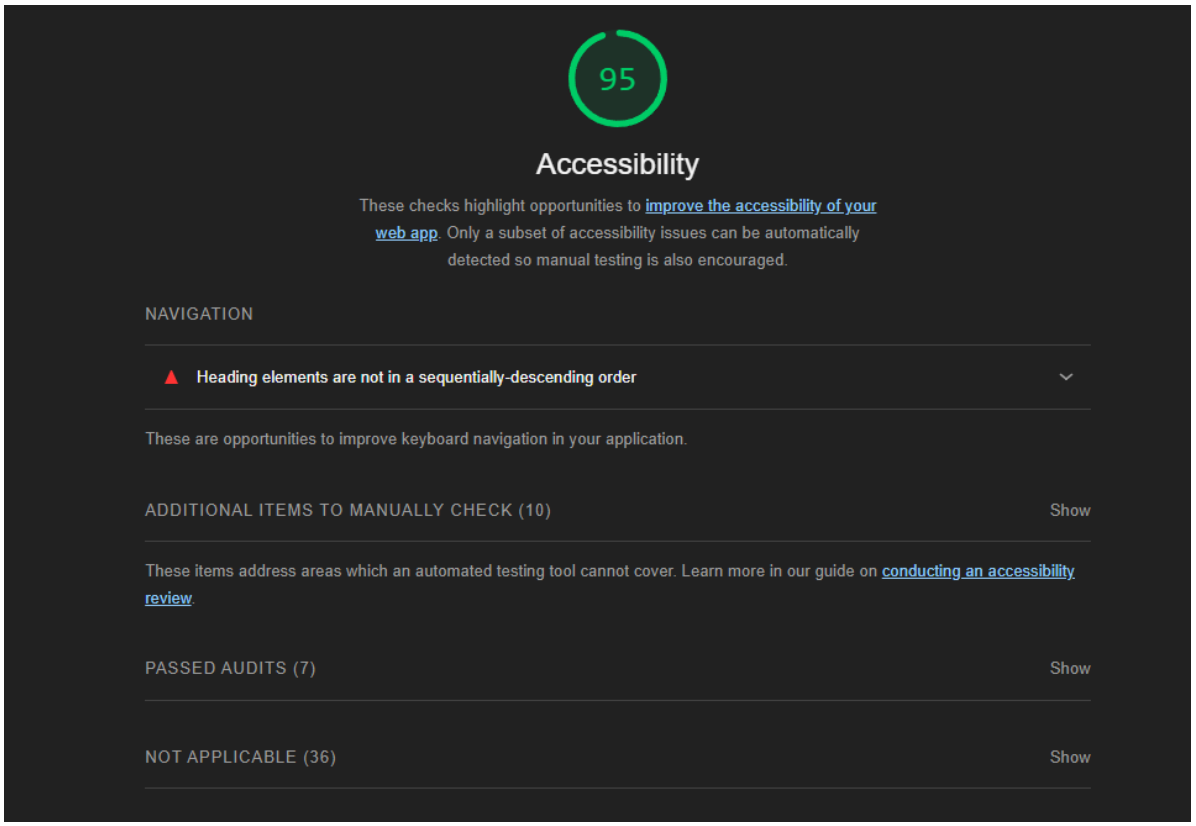
We have made 2 testing types that goes as: functional and non-functional

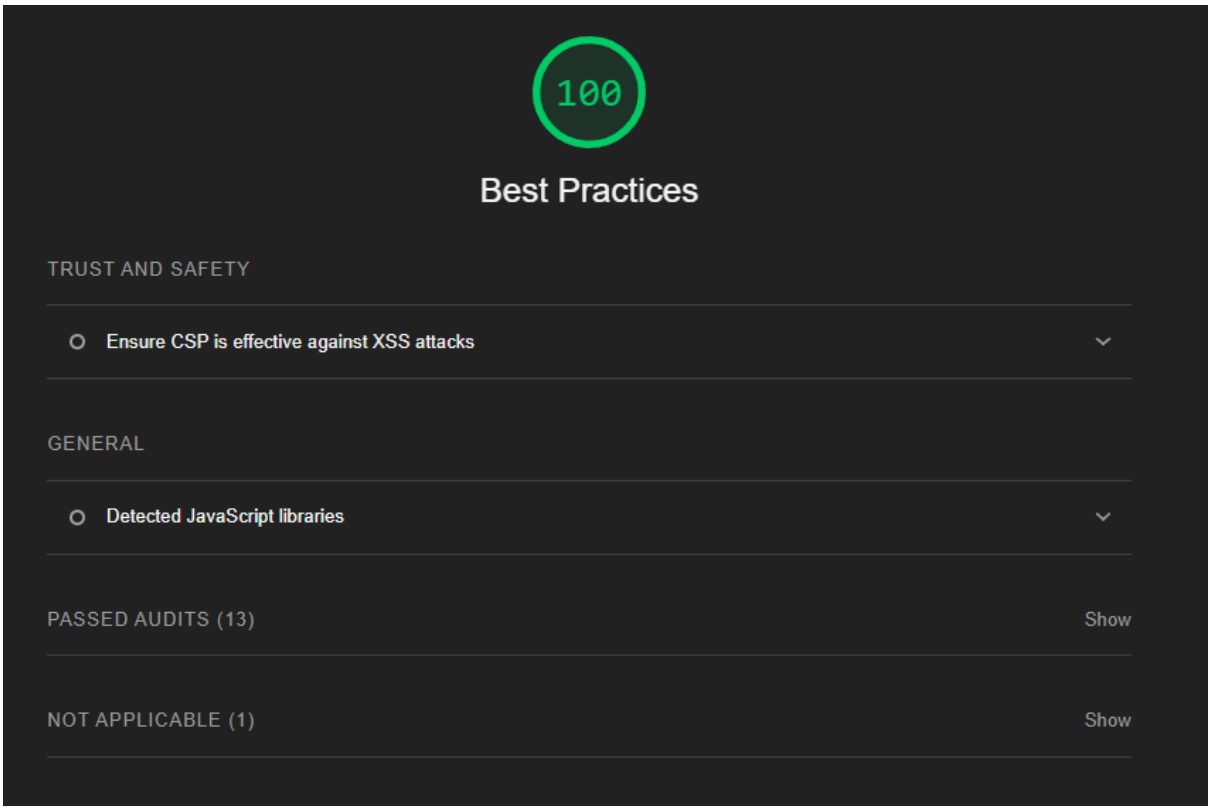
Our non-functional testing was done in Google's platform called “Lighthouse” . This platform recorded our MERN stack app’s performance on various categories and gave an overall score as well as the let downs of our code and gave insight about how to fix said issues.

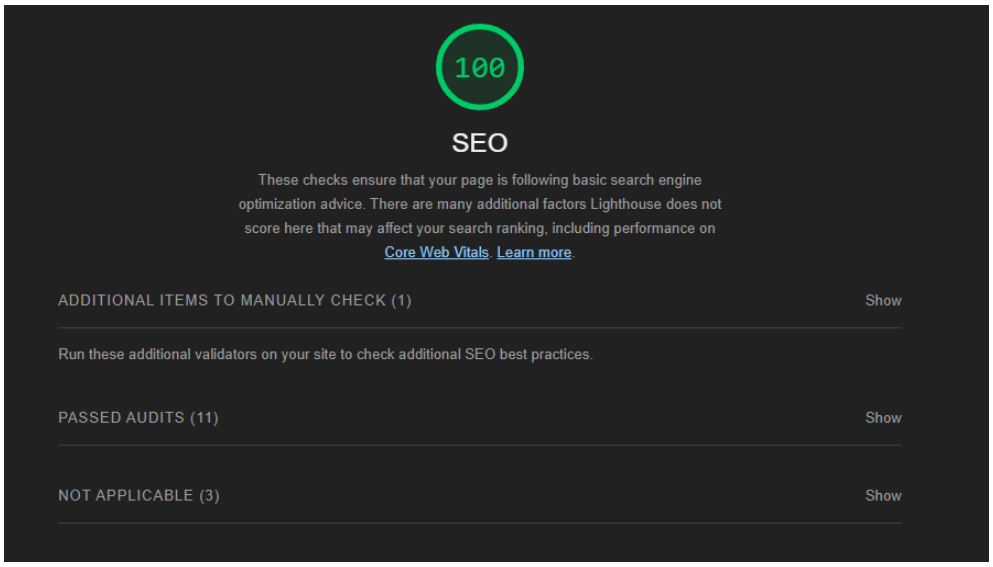


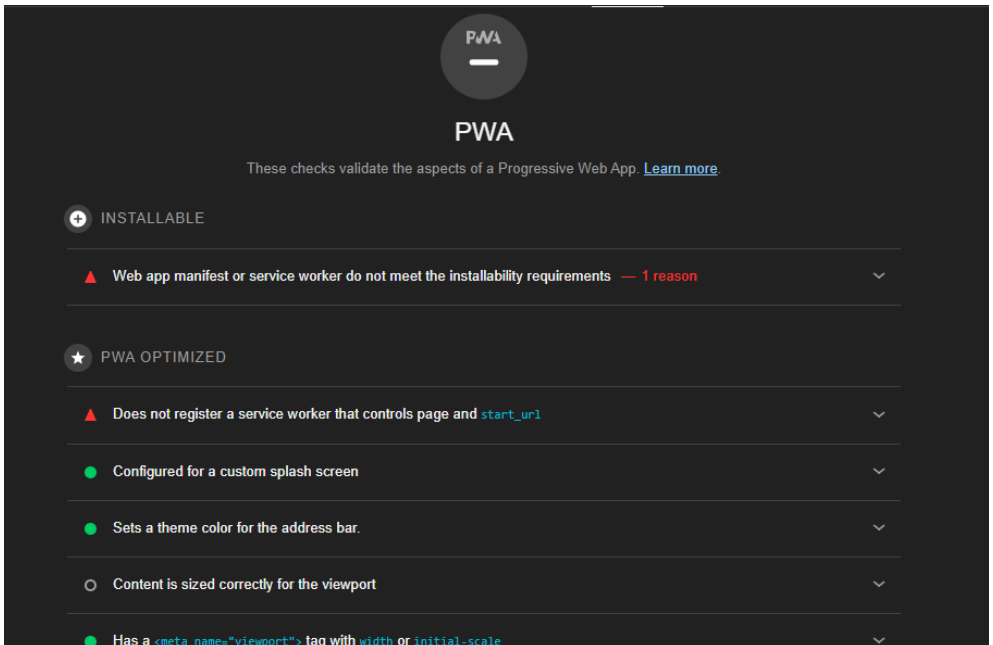



Show audits relevant to: All FCP TBT LCP CLS
OPPORTUNITIES
Opportunity
Estimated Savings
Use video formats for animated content
1.04 s
Properly size images
0.64 s
Reduce unused JavaScript
0.52 s
Minify JavaScript
0.2 s
These suggestions can help your page load faster. They don't directly affect the Performance score.
DIAGNOSTICS
Serve static assets with an efficient cache policy — 3 resources found
Image elements do not have explicit width and height
Keep request counts low and transfer sizes small — 14 requests • 2,612 KiB
Largest Contentful Paint element — 1 element found


95
Accessibility
These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.
NAVIGATION
Heading elements are not in a sequentially-descending order
These are opportunities to improve keyboard navigation in your application.
ADDITIONAL ITEMS TO MANUALLY CHECK (10)
Show
These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an accessibility review.
PASSED AUDITS (7)
Show
NOT APPLICABLE (36)
Show


100
Best Practices
TRUST AND SAFETY
Ensure CSP is effective against XSS attacks
GENERAL
Detected JavaScript libraries
PASSED AUDITS (13)
Show
NOT APPLICABLE (1)
Show


100
SEO
These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more.
ADDITIONAL ITEMS TO MANUALLY CHECK (1)
Show
Run these additional validators on your site to check additional SEO best practices.
PASSED AUDITS (11)
Show
NOT APPLICABLE (3)
Show

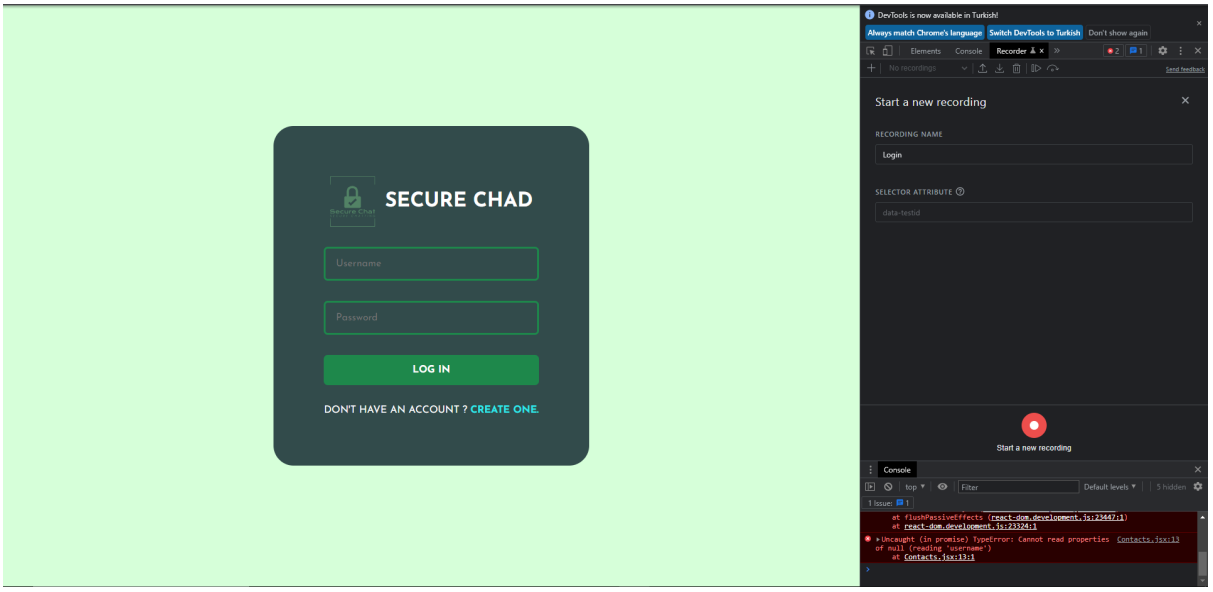

PWA
PWA
These checks validate the aspects of a Progressive Web App. Learn more.
INSTALLABLE
Web app manifest or service worker do not meet the installability requirements — 1 reason
PWA OPTIMIZED
Does not register a service worker that controls page and start_url
Configured for a custom splash screen
Sets a theme color for the address bar.
Content is sized correctly for the viewport

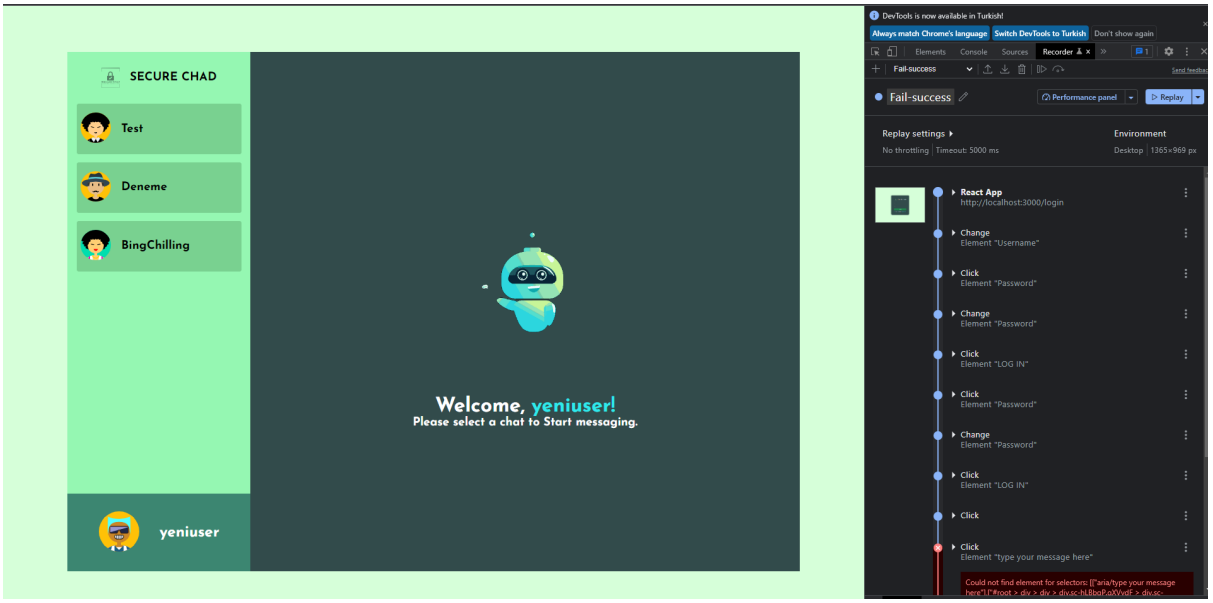
There are 5 categories in Google's metrics and those are:

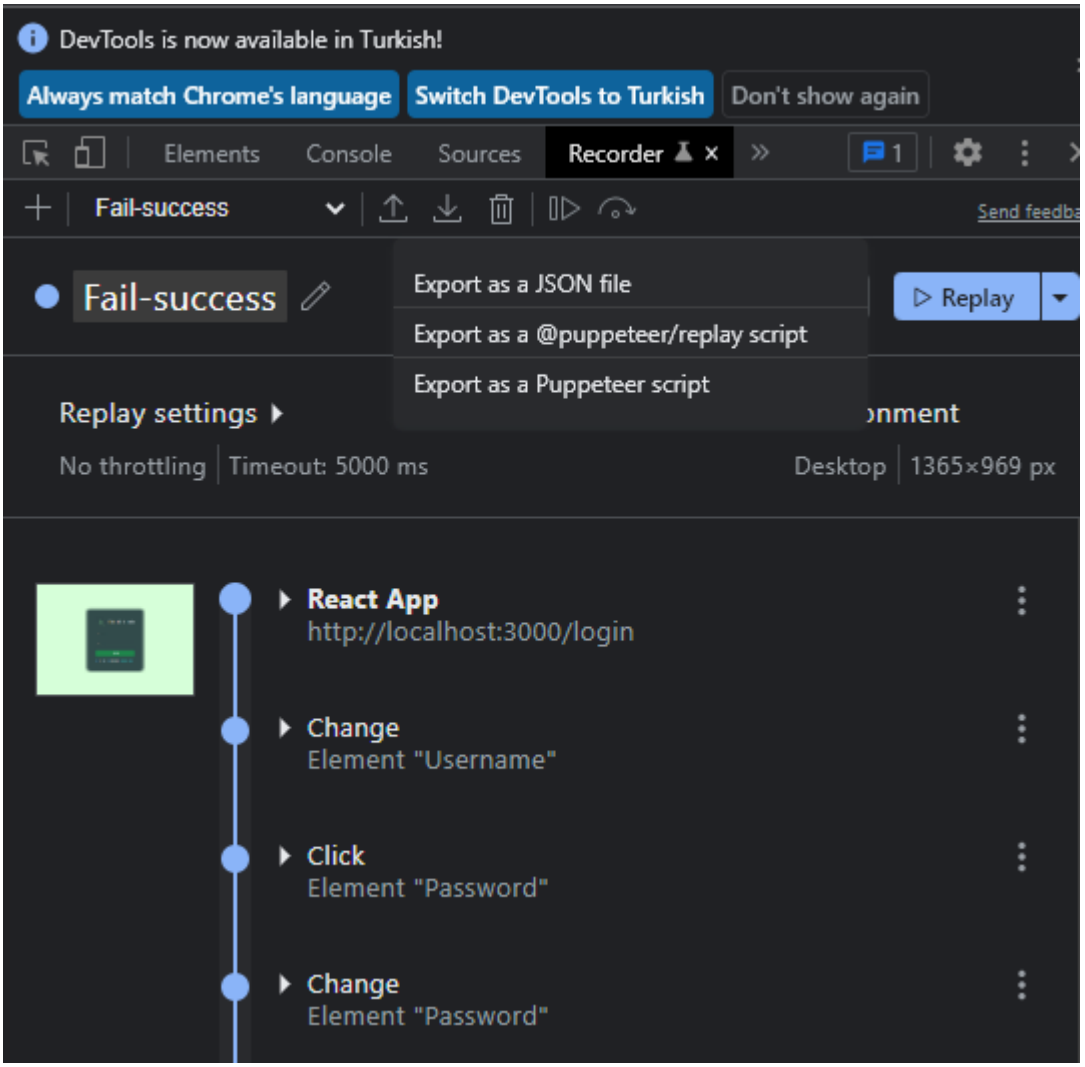
1.Overall Performance
2.Accessibility
3.Best Practices
4.SEO (Search Engine Optimization Advices)
5.PWA (Progressive Web Application)

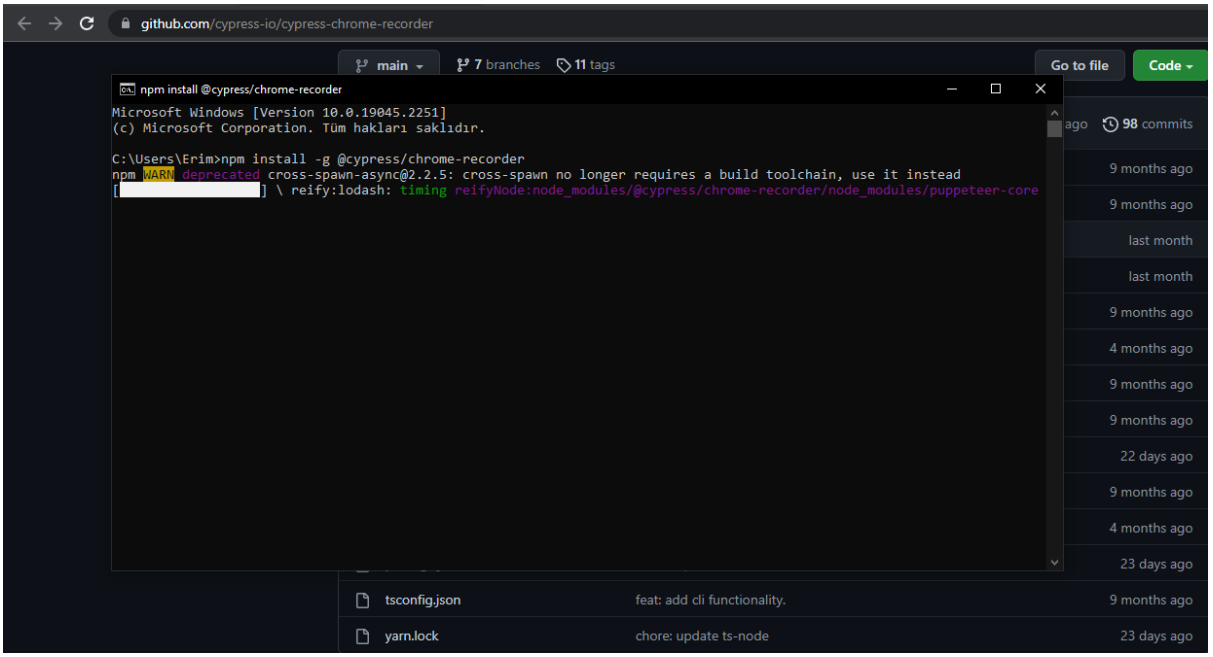
Our overall averages are considered to be quite great compared to industry standards.

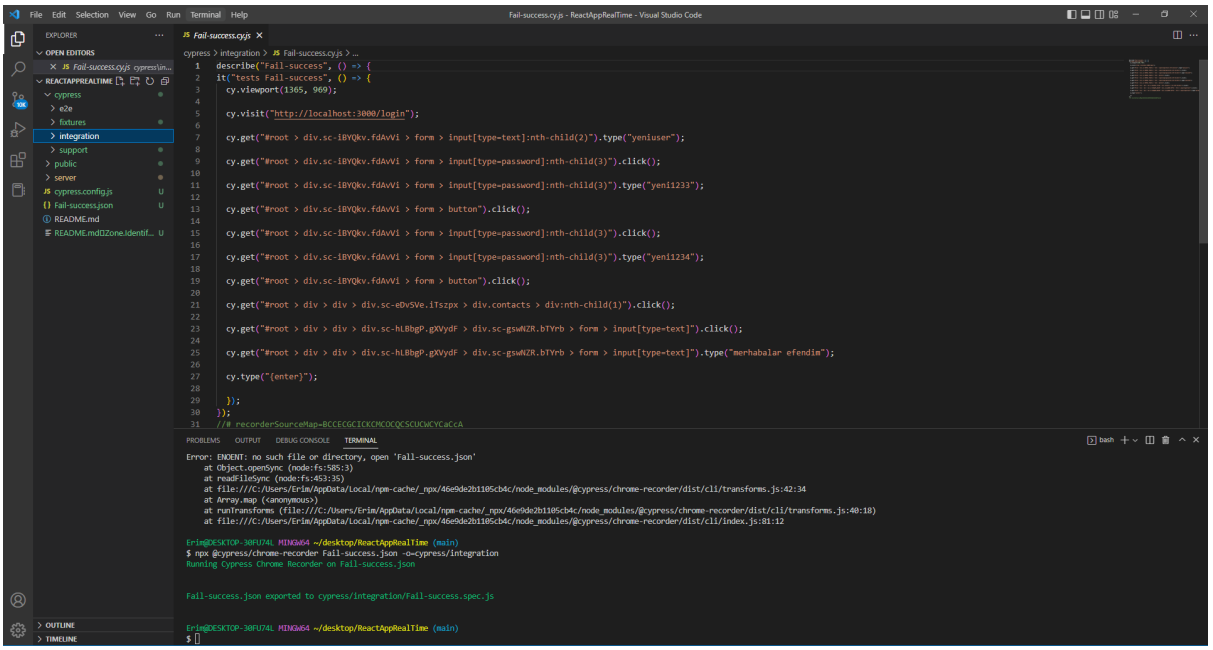
Now comes the part where our functional test begins. First of all we used Google Chrome's Record functionality to record keystrokes and clicks on the webpage so we can export a json file inorder to integrate with the Cypress software we are going to use in order to use json file in Cypress we are also using a package called Cypress-Chrome-Recorder on github this essentially gets the export from the chromes json file and converts the file to cypress format to use it in our testing. Our test scenario is a user trying to login incorrectly to the program first then correcting themselves after that messaging a user on the platform. In the pictures below you can grasp the concept of our method.

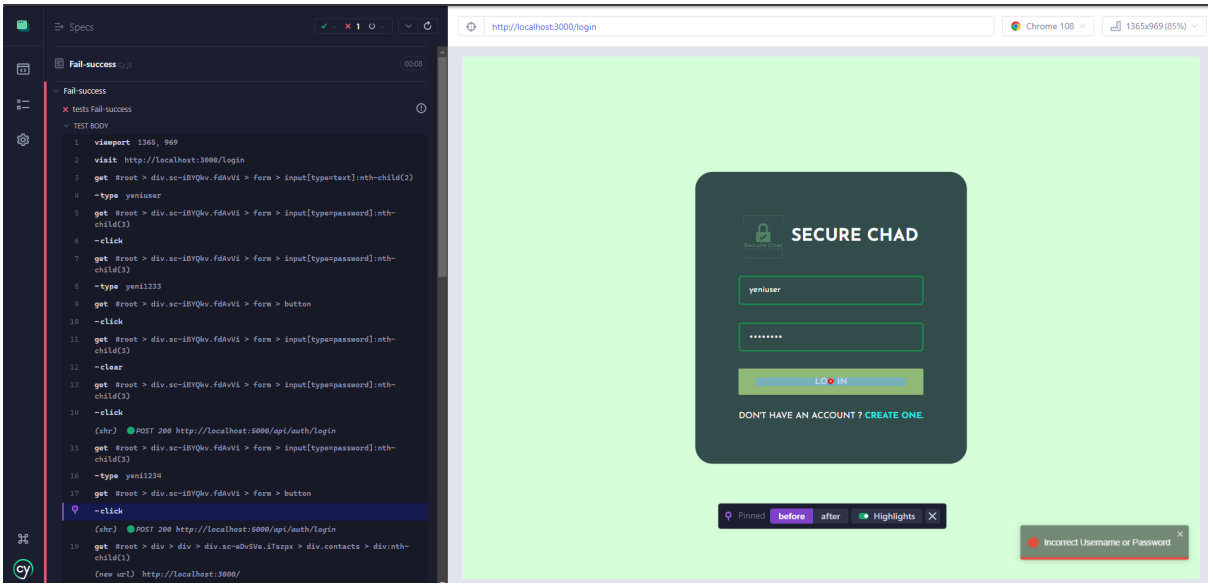


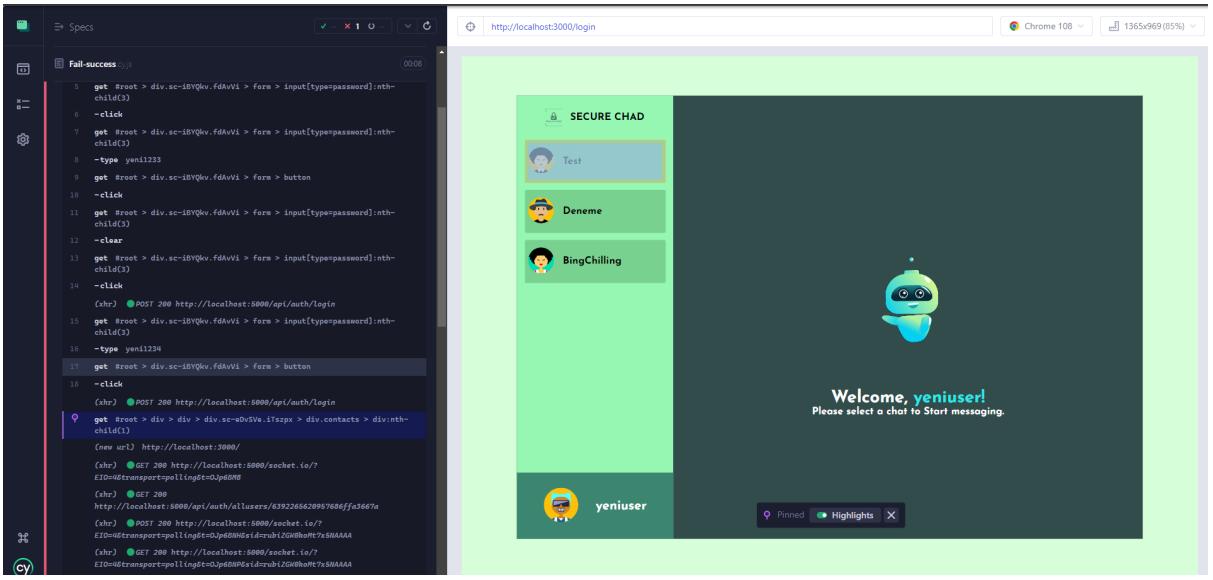

SECURE CHAD
Test
Deneme
BingChilling
yeniuser
Welcome, yeniuser!
Please select a chat to Start messaging.
DevTools is now available in Turkish!
Always match Chrome's language
Switch DevTools to Turkish
Don't show again
Fail-success
Performance panel
Replay
Replay settings
Environment
No throttling | Timeout: 5000 ms
Desktop | 1365×969 px
React App
http://localhost:3000/login
Change
Element "Username"
Click
Element "Password"
Change
Element "Password"
Click
Element "LOG IN"
Click
Element "Password"
Change
Element "Password"
Click
Element "LOG IN"
Click
Click
Element "type your message here"


DevTools is now available in Turkish!
Always match Chrome's language
Switch DevTools to Turkish
Don't show again
Elements
Console
Sources
Recorder
1
Fail-success
Send feedba
Fail-success
Export as a JSON file
Export as a @puppeteer/replay script
Export as a Puppeteer script
Replay
Replay settings
onment
No throttling | Timeout: 5000 ms
Desktop | 1365×969 px
React App
http://localhost:3000/login
Change
Element "Username"
Click
Element "Password"
Change
Element "Password"


github.com/cypress-io/cypress-chrome-recorder
main
7 branches
11 tags
Go to file
Code
npm install @cypress/chrome-recorder
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. Tüm hakları saklıdır.
C:\Users\Erim>npm install -g @cypress/chrome-recorder
npm WARN deprecated cross-spawn-async@2.2.5: cross-spawn no longer requires a build toolchain, use it instead
[ ] \ reify:lodash: timing reifyNode:node_modules/@cypress/chrome-recorder/node_modules/puppeteer-core
ago
98 commits
9 months ago
9 months ago
last month
last month
9 months ago
4 months ago
9 months ago
9 months ago
22 days ago
9 months ago
4 months ago
23 days ago
tsconfig.json
feat: add cli functionality.
9 months ago
yarn.lock
chore: update ts-node
23 days ago


Fail-success.cy.js - ReactAppRealTime - Visual Studio Code
describe("Fail-success", () => {
it("tests Fail-success", () => {
cy.viewport(1365, 969);
cy.visit("http://localhost:3000/login");
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > input[type=text]:nth-child(2)").type("yeniuser");
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > input[type=password]:nth-child(3)").click();
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > input[type=password]:nth-child(3)").type("yeni1233");
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > button").click();
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > input[type=password]:nth-child(3)").click();
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > input[type=password]:nth-child(3)").type("yeni1234");
cy.get("#root > div.sc-IBYQkv.fdAvVi > form > button").click();
cy.get("#root > div > div > div.sc-eDvSVe.iTszpx > div.contacts > div:nth-child(1)").click();
cy.get("#root > div > div > div.sc-hLBbgP.gXVydF > div.sc-gswNZR.bTYrb > form > input[type=text]").click();
cy.get("#root > div > div > div.sc-hLBbgP.gXVydF > div.sc-gswNZR.bTYrb > form > input[type=text]").type("merhabalar efendim");
cy.type("{enter}");
});
});
//# recorderSourceMap=BCCECGCICKCMCOCQCSCUCWCYCaCcA
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Error: ENOENT: no such file or directory, open 'Fail-success.json'
at Object.openSync (node:fs:585:3)
at readFileSync (node:fs:453:35)
at file:///C:/Users/Erim/AppData/Local/npm-cache/_npx/46e9de2b1105cb4c/node_modules/@cypress/chrome-recorder/dist/cli/transforms.js:42:34
at Array.map (<anonymous>)
at runTransforms (file:///C:/Users/Erim/AppData/Local/npm-cache/_npx/46e9de2b1105cb4c/node_modules/@cypress/chrome-recorder/dist/cli/transforms.js:40:18)
at file:///C:/Users/Erim/AppData/Local/npm-cache/_npx/46e9de2b1105cb4c/node_modules/@cypress/chrome-recorder/dist/cli/index.js:81:12
Erim@DESKTOP-30FU74L MINGW64 ~/desktop/ReactAppRealTime (main)
$ npx @cypress/chrome-recorder Fail-success.json -o=cypress/integration
Running Cypress Chrome Recorder on Fail-success.json
Fail-success.json exported to cypress/integration/Fail-success.spec.js
Erim@DESKTOP-30FU74L MINGW64 ~/desktop/ReactAppRealTime (main)
$


Specs
Fail-success
Fail-success
tests Fail-success
TEST BODY
viewport 1365, 969
visit http://localhost:3000/login
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=text]:nth-child(2)
-type yeniusar
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-click
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-type yeni1233
get #root > div.sc-iBYQkv.fdAvVi > form > button
-click
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-clear
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-type yeni1234
get #root > div.sc-iBYQkv.fdAvVi > form > button
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div > div > div.sc-eDvSVe.iTszpx > div.contacts > div:nth-child(1)
(new url) http://localhost:3000/
http://localhost:3000/login
Chrome 108
1365x969 (85%)
SECURE CHAD
yeniuser
LOGIN
DON'T HAVE AN ACCOUNT ? CREATE ONE.
Pinned
before
after
Highlights
Incorrect Username or Password


Specs
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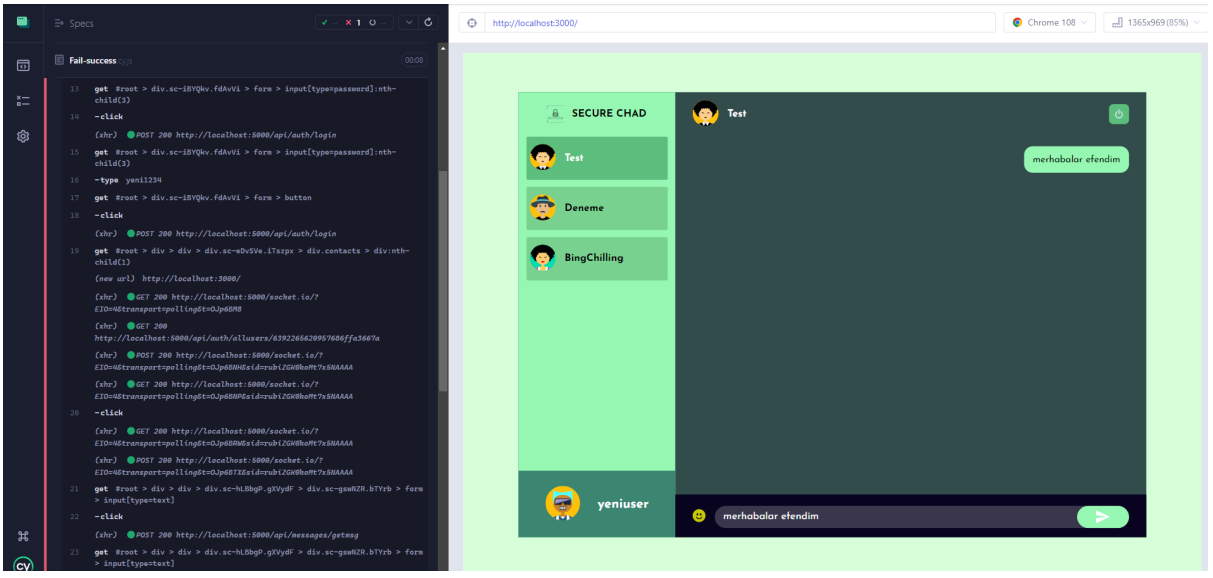
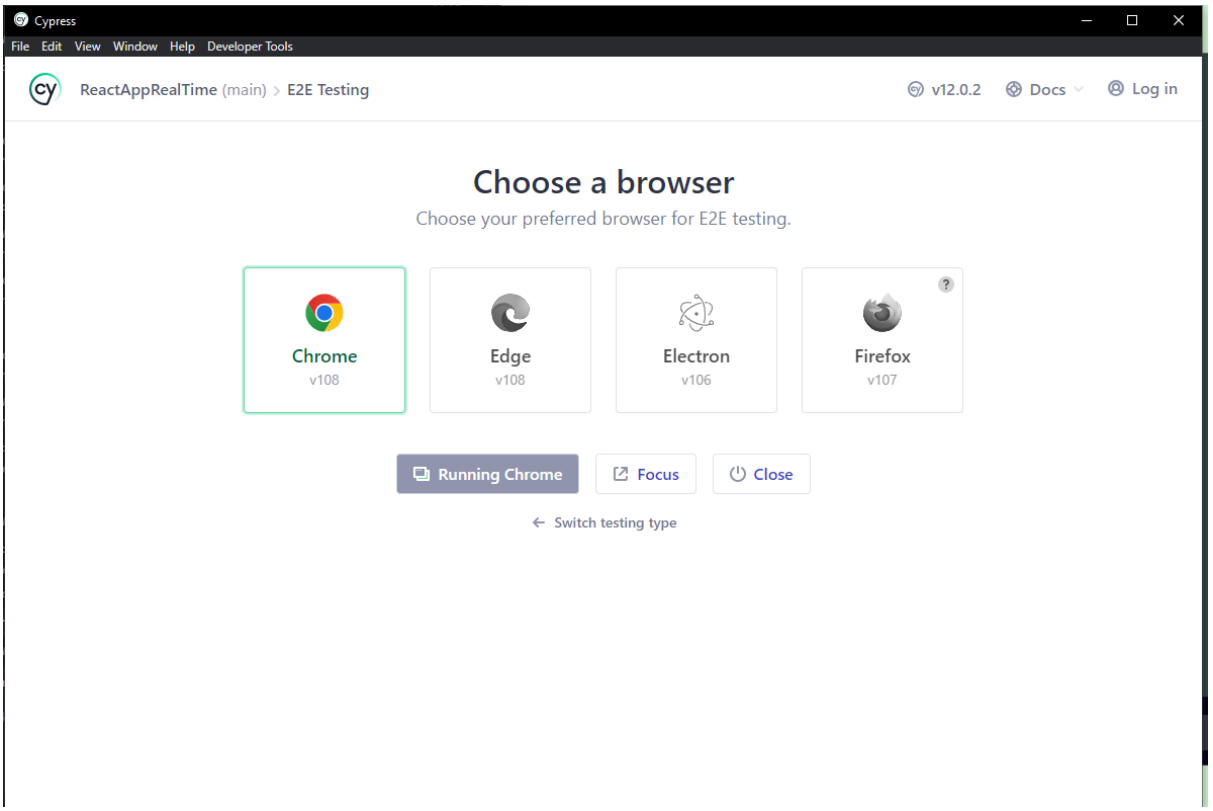
-click
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-type yeni1233
get #root > div.sc-iBYQkv.fdAvVi > form > button
-click
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-clear
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-type yeni1234
get #root > div.sc-iBYQkv.fdAvVi > form > button
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div > div > div.sc-eDvSVe.iTszpx > div.contacts > div:nth-child(1)
(new url) http://localhost:3000/
(xhr) GET 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68M8
(xhr) GET 200 http://localhost:5000/api/auth/allusers/639226562095768 6ffa3667a
(xhr) POST 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68HH&sid=rubiZGK0hoMt7x5NAAAA
(xhr) GET 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68NP&sid=rubiZGK0hoMt7x5NAAAA
http://localhost:3000/login
Chrome 108
1365x969 (85%)
SECURE CHAD
Test
Deneme
BingChilling
yeniuser
Welcome, yeniuser!
Please select a chat to Start messaging.
Pinned
Highlights


Specs
Fail-success
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div.sc-iBYQkv.fdAvVi > form > input[type=password]:nth-child(3)
-type yeni1234
get #root > div.sc-iBYQkv.fdAvVi > form > button
-click
(xhr) POST 200 http://localhost:5000/api/auth/login
get #root > div > div > div.sc-eDvSVe.iTszpx > div.contacts > div:nth-child(1)
(new url) http://localhost:3000/
(xhr) GET 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68M8
(xhr) GET 200 http://localhost:5000/api/auth/allusers/639226562095768 6ffa3667a
(xhr) POST 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68HH&sid=rubiZGK0hoMt7x5NAAAA
(xhr) GET 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp68NP&sid=rubiZGK0hoMt7x5NAAAA
-click
(xhr) GET 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp6BRW&sid=rubiZGK0hoMt7x5NAAAA
(xhr) POST 200 http://localhost:5000/socket.io/?EIO=4&transport=polling&t=OJp6BTZ&sid=rubiZGK0hoMt7x5NAAAA
get #root > div > div > div.sc-hLBbgP.gXVydF > div.sc-gswNZR.bTYrb > form > input[type=text]
-click
(xhr) POST 200 http://localhost:5000/api/messages/getmsg
get #root > div > div > div.sc-hLBbgP.gXVydF > div.sc-gswNZR.bTYrb > form > input[type=text]
http://localhost:3000/
Chrome 108
1365x969 (85%)
SECURE CHAD
Test
Deneme
BingChilling
yeniuser
Test
merhabalar efendim
merhabalar efendim


Cypress
File Edit View Window Help Developer Tools
ReactAppRealTime (main) > E2E Testing
v12.0.2
Docs
Log in
Choose a browser
Choose your preferred browser for E2E testing.
Chrome
v108
Edge
v108
Electron
v106
Firefox
v107
Running Chrome
Focus
Close
Switch testing type