

IT314 Software Engineering

Frontend White-box testing(ViTest)

GROUP 29 - Market Connect
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1. Unit Testing Overview

1.1 Coverage Metrics Code coverage metrics measure the extent to which source code is executed by tests:

- Statements: Percentage of executable statements executed by tests
- Branches: Percentage of conditional branches (if/else) executed
- Functions: Percentage of function definitions executed
- Lines: Percentage of source code lines executed

2. Overall Coverage Summary

2.1 Executive Summary

All files

90.26% Statements 2300/2548 76.55% Branches 1424/1860 86.37% Functions 520/602 90.61% Lines 2220/2450

The project achieves strong overall unit test coverage with statements (90.26%), branches(76.55%), functions (86.37%), and lines (90.61%) around 90%. Branch coverage (87.67%) indicates room for improvement in testing conditional logic.

3. Terminal Outputs

% Coverage report from v8					
File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	90.26	76.55	86.37	90.61	
services	98.76	100	97.29	98.76	
auction.js	100	100	100	100	
order.js	100	100	100	100	
payment.js	100	100	100	100	
product.js	100	100	100	100	
return.js	100	100	100	100	
review.js	86.66	100	80	86.66	30-31
user.js	100	100	100	100	
src	100	100	100	100	
App.jsx	100	100	100	100	
src/components	100	100	100	100	
ProtectedRoute.jsx	100	100	100	100	
src/components/Auction	74.38	58.26	78.12	75.47	
AuctionDetail.jsx	62.02	39.72	64.7	64.28	...-88,99-113,118-121,128-185
AuctionListing.jsx	97.61	90.47	93.33	97.22	118
src/components/admin dashboard	84.33	70.94	73.77	84.27	
adminDashboard.jsx	84.33	70.94	73.77	84.27	...27-845,849,879-890,911-929
src/components/buyer dashboard	99.38	83.6	98.27	100	
BuyerDashboard.jsx	99.38	83.6	98.27	100	...63-364,499,512-517,571-579
src/components/customerService	93.7	79.01	93.54	94.16	
CustomerService.jsx	93.7	79.01	93.54	94.16	28,81-82,114,291-292,425-432
src/components/login-signup	94.57	90.09	84.61	95.22	
AdminLogin.jsx	97.87	92.3	100	97.87	56
GoogleCallback.jsx	95.41	88.46	83.33	95.41	73,94,154,271-272
Login.jsx	91.71	86.82	77.27	92.77	...82,229,395,432-435,501-502
ResetPassword.jsx	95.55	91.3	88.88	97.67	221
Signup.jsx	98.14	98	100	98.14	106
src/components/payment	97.05	73.68	100	96.96	
PaymentGateway.jsx	97.05	73.68	100	96.96	44,109
src/components/profile	92.64	78.64	87.09	93.75	
Profile.jsx	92.64	78.64	87.09	93.75	...65,699,703,773-792,796,859
src/components/seller dashboard	73.96	61.85	73.38	73.54	
AddProduct.jsx	95.58	94.18	95.16	96.31	85-86,467,637-639
ReviewManagement.jsx	100	90.24	100	100	37-38,176-178
SellerDashboard.jsx	52.15	32.6	43.33	52.21	...57,381-385,415-460,660-937
src/contexts	99.66	86.95	100	99.64	
AuctionContext.jsx	100	80.51	100	100	23-24,28-34,53-67,93,100-133
AuctionContext.jsx	100	80.51	100	100	23-24,28-34,53-67,93,100-133
AuthContext.jsx	100	100	100	100	
CartContext.jsx	100	100	100	100	
ProductsContext.jsx	98.24	88.46	100	98.14	29
src/pages	97.58	87.79	95.83	97.54	
BecomeSellerPage.jsx	98.57	98.18	94.44	98.52	126
CheckoutPage.jsx	95.76	77.1	95	95.68	47-48,157,189,252
ProductDetailPage.jsx	100	97.05	100	100	99
PS C:\Users\tanis\OneDrive\Desktop\Market_Connect\Frontend> █					

4. Results

All Files

All files

90.26% Statements 2388/254876.55% Branches 3424/186886.37% Functions 538/60290.81% Lines 2228/2458

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
services	98.76%160/162	100%6/6	97.29%36/37	98.78%160/162
src	100%1/1	100%0/0	100%1/1	100%1/1
src/components	100%11/11	100%10/10	100%1/1	100%11/11
src/components/Auction	74.38%90/121	58.26%67/115	78.12%25/32	75.47%80/106
src/components/admin dashboard	84.33%210/249	70.94%127/179	73.77%45/61	84.27%209/248
src/components/buyer dashboard	99.38%161/162	83.6%153/183	98.27%57/58	100%153/153
src/components/customerService	93.7%134/143	79.01%84/81	93.54%29/31	94.18%129/137
src/components/login-signup	94.57%401/424	90.09%273/303	84.61%44/52	95.22%399/419
src/components/payment	97.05%66/68	73.68%28/38	100%12/12	96.96%64/66
src/components/profile	92.64%189/204	78.64%151/192	87.09%54/62	93.75%180/192
src/components/seller dashboard	73.96%338/457	61.85%274/443	73.38%102/139	73.54%317/431
src/contexts	99.66%297/298	86.95%120/138	100%68/68	99.64%279/280
src/pages	97.58%242/248	87.79%151/172	95.83%46/48	97.54%238/244

Services

All files services

98.76% Statements 350/352100% Branches 6/697.29% Functions 36/3798.76% Lines 350/352

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
auction.js	100%38/36	100%2/2	100%6/6	100%38/36
order.js	100%6/6	100%0/0	100%3/3	100%6/6
payment.js	100%18/18	100%0/0	100%6/6	100%18/18
product.js	100%23/23	100%0/0	100%4/4	100%23/23
return.js	100%12/12	100%0/0	100%4/4	100%12/12
review.js	86.66%13/15	100%0/0	80%4/5	86.66%13/15
user.js	100%52/52	100%4/4	100%9/9	100%52/52

Auction

All files src/components/Auction

74.38% Statements 90/12258.26% Branches 67/11578.12% Functions 35/3275.47% Lines 88/106

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
AuctionDetail.jsx	62.02%49/79	39.72%29/73	64.7%11/17	64.28%45/70
AuctionListing.jsx	97.61%41/42	90.47%38/42	93.33%14/15	97.22%35/36

Login-Signup

All files src/components/login-signup

94.57% Statements 481/424 90.09% Branches 273/303 84.61% Functions 44/52 95.22% Lines 399/419

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
AdminLogin.jsx	97.87% 46/47	92.3% 46/47	24/26 100%	97.87% 46/47
GoogleCallback.jsx	95.41% 104/109	88.46% 46/52	83.33% 10/12	95.41% 104/109
Login.jsx	91.71% 155/169	86.82% 112/129	77.27% 17/22	92.77% 154/166
ResetPassword.jsx	95.55% 43/45	91.3% 42/46	88.88% 8/9	97.67% 42/43
Signup.jsx	98.14% 53/54	96% 49/50	100% 5/5	98.14% 53/54

Seller-Dashboard

All files src/components/seller dashboard

73.96% Statements 338/457 61.85% Branches 274/443 73.38% Functions 180/139 73.54% Lines 317/431

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
AddProduct.jsx	95.58% 173/181	94.18% 162/172	95.16% 59/62	96.31% 157/163
ReviewManagement.jsx	100% 44/44	90.24% 37/41	100% 17/17	100% 42/42
SellerDashboard.jsx	52.15% 121/232	32.6% 75/230	43.33% 26/60	52.21% 118/226

Contexts

All files src/contexts

99.66% Statements 297/298 86.95% Branches 128/138 100% Functions 68/68 99.64% Lines 279/280

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
AuctionContext.jsx	100% 112/112	80.51% 62/77	100% 25/25	100% 105/105
AuthContext.jsx	100% 69/69	100% 12/12	100% 8/8	100% 69/69
CartContext.jsx	100% 60/60	100% 23/23	100% 22/22	100% 52/52
ProductsContext.jsx	98.24% 56/57	88.46% 23/26	100% 13/13	98.14% 53/54

Pages

All files src/pages

97.58% Statements 242/248 87.79% Branches 151/172 95.83% Functions 46/48 97.54% Lines 238/244

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
BecomeSellerPage.jsx	98.57% 69/70	96.18% 54/55	94.44% 17/18	98.52% 67/68
CheckoutPage.jsx	95.76% 113/118	77.1% 64/83	95% 19/20	95.68% 111/116
ProductDetailPage.jsx	100% 60/60	97.05% 33/34	100% 10/10	100% 60/60