

**Project:** Shopping App

**Report date:** 11/17/21

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## Current Status

Shopping App is not ready for release.

## Blocking defects

Work Item ID	Description	Status
BD1	Users can add a null item to the cart. This makes the checkout and current total buttons unusable and prohibit the user from completing their purchase.	New

## Significant non-blocking defects

Work Item ID	Description	Status
T38, T39	The boundaries for prices are not being checked. Users can add prices that go beyond or below the prices listed in the project specifications (1 – 99,999).	New
T40	Users can checkout using an invalid state and the shopping app accepts it.	New
T06, T07, T23, T24	The Tax Calculator taxes incorrectly. It adds the shipping cost when it should just be the item cost.	New
T38	Users can enter a negative dollar amount	New
T13-T20, T28, T30, T32, T34	There is free next day shipping. Next day shipping should always be \$25.	New

## Supporting information

Work Item BD1 was found through PMD static analysis and is explained further in the Static Analysis report.

## Testing process

Description	Test count	Pass %
Normal Boundary for the Total Cost Calculator	26	54%
Equivalence Partitioning for the Total Cost Calculator (Strong Normal and Weak Robust)	14	29%
Cucumber Tests for the Total Cost Calculator	4	0%
Purchase Agent Tests	9	78%
Shopping Cart Tests	4	100%

## Test coverage

module name	line coverage	branch cov
Total Cost Calculator	50%	100%
Shopping Cart	50%	50%
Tax Calculator	93%	100%
Purchase Agent	100%	83%
Bill	0%	N/A
Purchase	54%	N/A
Purchase Item	0%	N/A
Purchase DBO	0%	0%

## Supporting information

The overloaded calculate method in Total Cost Calculator is being tested in Cucumber. This does not count towards the coverage.

482 of 745 instructions were covered and 4 of 18 branches were covered throughout the whole application.