

Software Test Plan – Justin Mercado

After speaking with my groupmates, we have decided to create three individual Junit suites that test the three main components of our program: Client/User Profile, Vehicle, and Payment.

My component that I am working on is the Payment class. The Payment class will be holding the customer's credit card information and account balance. The Payment class interacts with smaller component classes: Discount, Base Cost, and Final Fare. These smaller component classes assist the Payment class in calculating how much to deduct from the customer's account for a toll crossing.

The proposed test suite will have to ensure that the Payment driver generates the appropriate exception handle errors, or values when given an input.

1. Test Case 1: Ensure valid credit card name
2. Test Case 2: Ensure valid credit card number
3. Test Case 3: Ensure valid credit card expiration date
4. Test Case 4: Ensure valid credit card ccv
5. Test Case 5: Ensure valid credit card name editor
6. Test Case 6: Ensure valid credit card number editor
7. Test Case 7: Ensure valid credit card expiration date editor
8. Test Case 8: Ensure valid credit card ccv editor
9. Test Case 9: Ensure valid deletion of credit card information
10. Test Case 10: Ensure valid account balance credit addition (manual)
11. Test Case 11: Ensure valid account balance credit addition (schedule automatic)
12. Test Case 12: Ensure valid account balance credit deduction
13. Test Case 13: Ensure valid calculation final fare
14. Test Case 14: Ensure valid use case (test if whole system works all together)
15. Test Case 15: Ensure valid construction of payment object with default constructor
16. Test Case 16: Ensure valid construction of payment object with custom constructor