# SWEN 301 KPSmart Testing Document

Part of the Submission for Assignment 2

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Section I: Architecture Design

For my personal Architecture design, I used the \_\_\_, \_\_\_ and \_\_\_ models for the design.

# Section 2: Test Cases for KPSmart

# Brief

The four Use Cases that I will be testing for are the following items:

1. A User Logging in into the KPSmart Program
2. A User requesting a Delivery
3. A User updating the Transport Costs for a given route
4. A User discontinuing an existing route.

# Scenario I: User Logging into a System

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| Test Case ID | Condition/Scenario | Test Data and Settings | Expected Output |
| 1 | Login is Successful | Username: linusgo  Password: hunter2 | Allows the user access into the App. |
| 2 | Incorrect Login Attempt – Wrong Password | Username: linusgo  Password: blahblah | Displays an error message stating “incorrect login” |
| 3 | More than three incorrect Login Attempts are entered | **[Repeated x3]**  [Username: linusgo  Password: blahblah] | After the third attempt, locks the user from making further login attempts. |
| 4 | No details are submitted | Username: -  Password: - | Display an error message prompting a user to put their details in. |

# Scenario II: The User Requests a Delivery

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| Test Case ID | Condition/Scenario | Test Data and Settings | Expected Output |
| 1 | The Clerk Makes a standard delivery with correct and valid inputs. | Origin:  Wellington  Destination:  Auckland  Mail Priority:  Standard  Weight:  0.50kg  Volume:  0.5\*0.5\*0.5m^3 | After update is clicked:   * Delivery event shows up in the log file * Business figures are updated representing the new delivery. |
| 2 | The Clerk inputs a destination that is not served by their network. | Origin:  Wellington  Destination:  Pyongyang  Mail Priority:  Standard  Weight:  0.50kg  Volume:  0.5\*0.5\*0.5m^3 | After update is clicked:   * The System notifies the clerk that the ***mail cannot be delivered*** * *System prompts the clerk to put a* ***valid destination.*** |
| 3 | The Clerk forgets to fill in a field inside the delivery form. | Origin:  Wellington  Destination:  -  Mail Priority:  Standard  Weight:  0.50kg  Volume:  0.5\*0.5\*0.5m^3 | After update is clicked:   * The system notifies the clerk to **fill the missing field in, and try again** |
| 4 | The Clerk gets a **domestic** air priority delivery, but no air route exists between the two cities. | Origin:  Wellington  Destination:  Palmerston North  Mail Priority:  Domestic Air  Weight: 0.50kg  Volume:  0.5\*0.5\*0.5m^3 | After update is clicked:   * The system checks if a domestic air route exists * It then notifies the clerk that **no air route exists between the two cities**, and to change the “Mail Priority”. |
| 5 | The Clerk gets an **International** air priority delivery, but no air route exists between the two cities. | Origin:  Wellington  Destination:  Apia  Mail Priority:  International Air  Weight: 0.50kg  Volume:  0.5\*0.5\*0.5m^3 | After update is clicked:   * The system checks if an international air transport route exists for that route * It then notifies the clerk that **no air route exists between the two cities**, and to change the “Mail Priority”. |

# Scenario III: The User Updates Transport Costs

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| Test Case ID | Condition/Scenario | Test Data and Settings | Expected Output |
| 1 | The Clerk updates the Transport Costs field with all correct and valid data. | Origin:  Auckland  Destination:  Singapore  Transport Firm Name:  DHL  Type of Transport:  Air Freight  Price per gram:  $0.50 /g  Price per cubic cm:  $1.30 /cm^3  Day of Weekly Departures:  Monday  Frequency of Departures:  12 hours  Trip Duration:  10 Hours | * Transport Price Update is added to the log file. * When the Clerk checks the new Transport costs again, the changes are saved. |
| 2 | The Clerk forgets to fill in a field in the Transport Costs form. | Origin:  Auckland  Destination:  **-**  Transport Firm Name:  DHL  Type of Transport:  Air Freight  Price per gram:  $0.50 /g  Price per cubic cm:  $1.30 /cm^3  Day of Weekly Departures:  Monday  Frequency of Departures:  12 hours  Trip Duration:  10 Hours | * The System notifies the user that there is a missing field, and that it must be filled in. |
| 3 | The Clerk fills in the Details for a specific Transport Firm that does not exist. | Origin:  Auckland  Destination:  Singapore  Transport Firm Name:  **Boogey Man Transport**  Type of Transport:  Air Freight  Price per gram:  $0.50 /g  Price per cubic cm:  $1.30 /cm^3  Day of Weekly Departures:  Monday  Frequency of Departures:  12 hours  Trip Duration:  10 Hours | * The system notifies the clerk that the Transport firm is incorrect and does not exist * It then asks the clerk to put in a correct Transport firm in. |
| 4 | The Clerk fills in an Invalid Input for the Price Fields. | Origin:  Auckland  Destination:  Singapore  Transport Firm Name:  FedEx  Type of Transport:  Air Freight  Price per gram:  **$-0.50 /g**  Price per cubic cm:  **$888888888888888.30 /cm^3**  Day of Weekly Departures:  Monday  Frequency of Departures:  12 hours  Trip Duration:  10 Hours | * The system verifies if the fields are correct * Since they are incorrect – it tells the clerk to insert a set of valid values. |

# Scenario IV: The User Wishes to Discontinue a Route

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| Test Case ID | Condition/Scenario | Test Data and Settings | Expected Output |
| 1 | The Clerk enters the valid route information to discontinue the route. | Origin: Busan  Destination: Christchurch  Name of Transport Firm:  Korean Air Cargo  Type of Transport:  Air Freight | * The system provides a message that the route has been deleted and does not exist anymore. |
| 2 | The Clerk enters a route that does not exist in the first place to discontinue. | Origin: Mogadishu  Destination: Damascus  Name of Transport Firm:  Totally not Dangerous Goods Ltd  Type of Transport:  Wooden Boat | * The system provides a message saying that the **route does not exist to discontinue.** |
| 3 | The Clerk forgets to add a field when filling out the information. | Origin: Busan  Destination: -  Name of Transport Firm:  Korean Air Cargo  Type of Transport:  Air Freight | * The system displays an error message that a field is missing. |