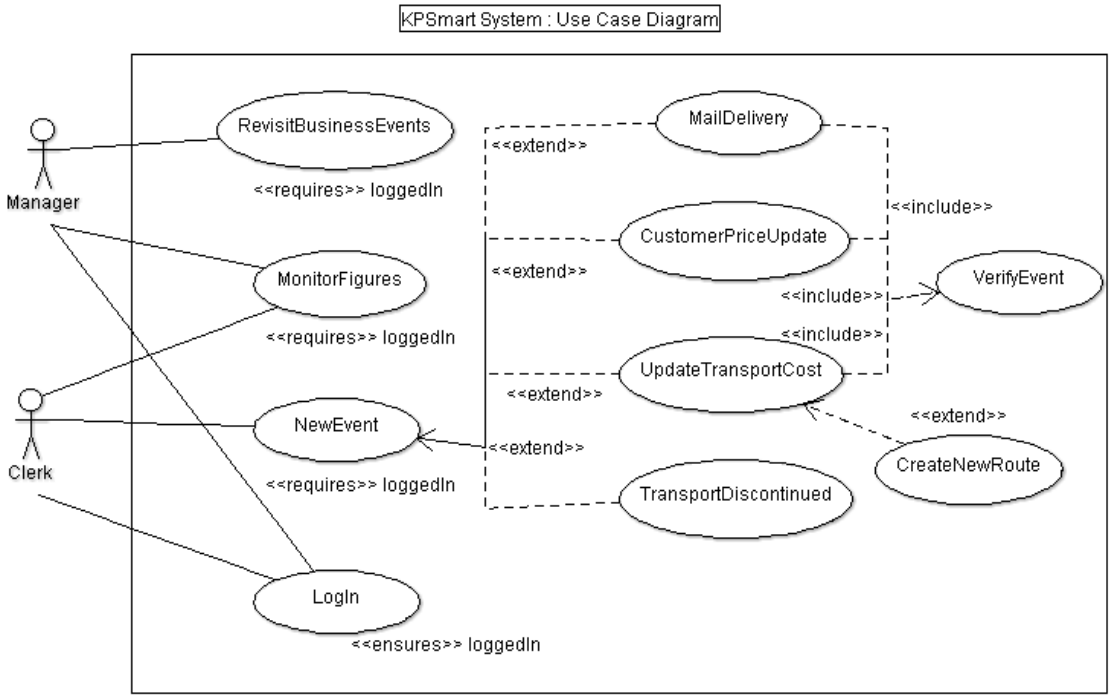
Requirements Document
Team A

Use Case Diagram:



USE CASE: *LogIn*

Actors

1. KPSmart Clerk, KPSmart Manager

Preconditions

Postconditions

1. loggedIn

Main Success Scenario

1.Select 'Log In'
2. Show login screen
3.Enter username and password
4.Click 'Log in'
5. Verify credentials
6. Check access permissions

7. Show actor based main screen

Exception Scenarios

5a. Invalid credentials. System gives warning message, go back to step 2

6a. Not permissions found. Display error screen, go back to step 2

Assumptions and Notes

8. Depending on whether or not the system is local, it may be hard to actually verify credentials, etc.

USE CASE: *Monitor Figures*

Actors

1. KPSmart Clerk, KPSmart Manager

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1.Actor asks to view figures

2. System shows list of figures

3.Actor selects what they want to view

4. System shows the selected figures

Exception Scenarios

4a.The figures aren't found (no relevant business events have been processed yet)

System informs the actor that there is no data yet

Assumptions and Notes

1. The figures include total revenue, total expenditure, total number of events, amount of mail, average delivery times, and critical routes.

USE CASE: *RevistBusinessEvents*

Actors

1. KPS Manager

Preconditions

1. loggedIn

Postconditions

1. No postconditions are applicable as the use is only viewing information. No data is being altered.

Main Success Scenario

1. User loads Business Events Page
2. System Shows user a list of business events to chose from
3. User selects from list
4. System loads data from stored log
5. System shows relevent data and controls for moving backward and forward through events
6. User selects to move forward or backward
7. Data is refreshed

Exception Scenarios

3. System is unable to load XML files. Informs user that data cannot be found

Assumptions and Notes

1. The current system date will be used to determine effective date.

USE CASE: *NewEvent*

Actors

1. KPS Clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1. Select Create New Event
2. Display dropdown of events
3. Select event name
4. Direct to event view
5.

Exception Scenarios

5. At this point, proceed to event specific use case, I.e, MailDelivery

Assumptions and Notes

1.

USE CASE: *MailDelivery <<extends>> NewEvent*

Actors

1. KPS Clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1. Display mail delivery form
2. Complete form
4. Select 'Confirm'
3. >>VerifyEvent

Exception Scenarios

Assumptions and Notes

USE CASE: *CustomerPricesUpdate <<extends>> NewEvent*

Actors

1. KPS Manager
2. KPS Clerk

Preconditions

1. loggedIn

Main Success Scenario

6.	Display customer PricesUpdate form
7. Click line diagram	
8.	Display trend of price changing
9. Fill out form	
10.Select 'Confirm'	
11. >>VerifyEvent	

Exception Scenarios

Assumptions and Notes

USE CASE: *UpdateTransportCost <<extends>> NewEvent*

Actors

1. KPSmart Clerk, KPSmart Manager

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1.	Diplay UpdateTransportCost form
2. Complete Form	
3. Select Confirm	
4.	Searches database for matching route. When found, displays the found route and confirmation dialog
5. Selects “Confirm”.	
6. >>VerifyEvent	

Exception Scenarios

5. If a route is not found, proceed to CreateNewRoute use-case

Assumptions and Notes

2.The route, origin, destination, transport firm name, transport type, new price per gram, new price per cubic centimetre, weekday of departure, departure frequency, and trip duration must be non-null values and in a valid format.

3.If the price of an existing route is being updated, the route, origin, destination, transport firm name, transport type, weekday of departure, departure frequency, and trip duration must match their stored database values.

4.Numbered values cannot be negative.

5.The trip duration value must be greater than zero.

USE CASE: *CreateNewRoute <<extends>> UpdateTransportCost*

Actors

1. KPSmart Clerk, KPSmart Manager

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1.	Prompts user asking if they wish to create a new route entry
2. Clicks “Confirm”	
3.	Creates a new route entry in the database using the input values.
4. Selects “Finish”.	

USE CASE: *VerifyEvent*

Actors

1. KPS clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1.	System verifies data
2.	System displays completed form

3. Actor selects 'Confirm'

4. System updates figures and writes to log file

5. System alerts Actor that log file has been updated

6. System displays 'Go Back'

7. Actor selects 'Go Back'

Exception Scenarios

1. Data is incorrect / invalid. Alerts user and redirects to previous view, highlighting incorrect entries

3a. Actor chooses 'Edit'. System returns Actor to previous view

3a. Actor selects 'Cancel'.

3b. System dialog 'Are you sure?'

3c. Actor selects 'Yes'

3d. Redirects Actor to main screen

Assumptions and Notes

USE CASE: *TransportDiscontinued <<extends>> NewEvent*

Actors

1. KPS clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

8. System shows routes that are currently available

9.Actor selects a route and confirms

10. System discontinues that route and
notifies that it is no longer available

Exception Scenarios

Assumptions and Notes

1. Each route has its own origin, destination, transport firm name and type (land/sea/air)

Class Diagram