

Requirements Document

Team A

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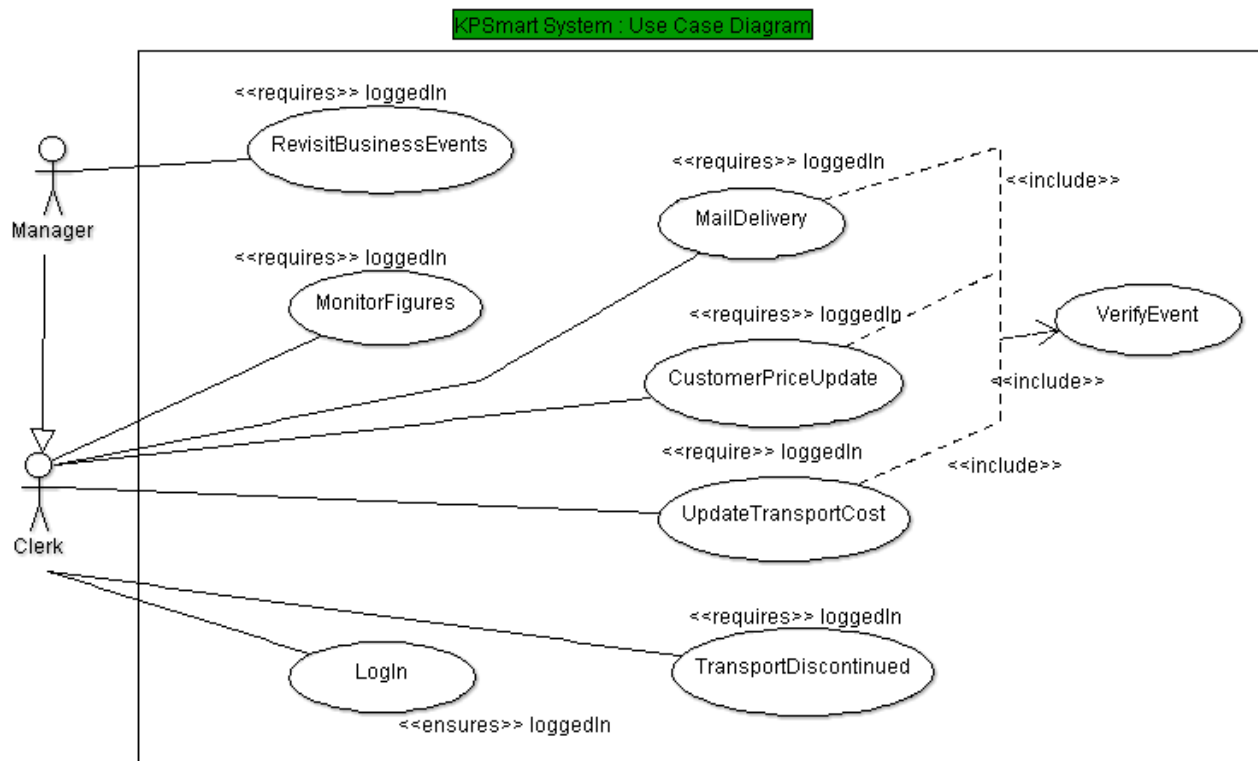
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Use Case Diagram:



USE CASE: *LogIn*

Actors

1. KPSSmart Clerk, KPSSmart 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. KPSSmart Clerk, KPSSmart Manager

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1. Actor asks to view figures
2. System calculates and displays key figure tables

Exception Scenarios

- 2a. The figures aren't found (no relevant business events have been processed 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: *MailDelivery*

Actors

1. KPS Clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1. Select Add Mail Item
2. Display mail delivery form
3. Input relevant details
4. Select 'Ok'
5. >>Verify Event

Exception Scenarios

- 5.a Specific to Mail Delivery: If customer route not found, display error message, return to step 4

Assumptions and Notes

- 1.

USE CASE: *CustomerPricesUpdate*

Actors

1. KPS Manager
2. KPS Clerk

Preconditions

1. loggedIn

Main Success Scenario

- | | |
|---------------------------------|---|
| 1. Select Update Customer Price | |
| 2. | Display Customer price form |
| 3. | Display Customer routes based on selections |
| 4. Complete form | |
| 5. Select Add Event | |
| 6. | >>Verify Event |

Exception Scenarios

Assumptions and Notes

1. If a route is not found, it will automatically create one so there will be no exceptions base on route not found

USE CASE: *UpdateTransportCost*

Actors

1. KPSSmart Clerk, KPSSmart Manager

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

- | | |
|---------------------------------|--|
| 1. Select Update Customer Price | |
| 2. | Display Transport Cost form |
| 3. | Display Transport routes based on selections |
| 4. Complete form | |
| 5. Select Add Event | |
| 6. | >>Verify Event |

Exception Scenarios

Assumptions and Notes

- 2.If a route is not found it will automatically create one
- 3.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.
- 4.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.
- 5.Numbered values cannot be negative.
- 6.The trip duration value must be greater than zero.
- 7.These are all checked in Verify Event

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. Go back to display form with confirmation message
7. Actor closes form

Exception Scenarios

- 3a. Data is incorrect / invalid. Alerts user and redirects to previous view, displaying the top error message (from a list of error messages).

Assumptions and Notes

- This is a combined step of entering data into the database and allowing the actor to choose what to do if an error is presented

USE CASE: *TransportDiscontinued*

Actors

1. KPS clerk

Preconditions

1. loggedIn

Postconditions

Main Success Scenario

1. System shows routes that are currently available as well as relevant fields
2. Actor selects a route and confirms
3. 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)
2. The routes will be filtered based on available routes as well as the relevant fields

Class Diagram

