[**Jira Project**](https://pachito.atlassian.net/jira/software/projects/SEF/boards/2)

[**GitHub Repository**](https://github.com/Pachito23/SEF-project)

3.1 Post Office Use Cases Description

| **Use case** | Register |
| --- | --- |
| **Actors** | Any |
| **Pre-condition** | In the case of creating a new Office Manager or Courier, the user must provide Master Credentials\* associated with a pre-existing Office Manager account. |
| **Basic Path** | Upon opening the program, the user is asked to register or login. Choosing to register, the user is prompted to select the account type. Depending on the account type, the user will have to provide a **username** and a **password**, but also the following data:   * **Office Manager**   + *Master Credentials\**   + *Full Name*   + *Phone Number*   + *Office Address* * **Courier**   + *Master Credentials\**   + *Full Name*   + *Phone Number*   + *Vehicle Type* * **Customer**   + *Full Name*   + *Phone Number*   + *Delivery & Billing Address*   After registering, the user can proceed to use the new account to access any of their group’s functionalities. |
| **Exceptions** | If the program has no users stored, it will have a default disposable Office Manager, which deletes itself after creating the first Office Manager.  If the username exists the process fails and the program outputs a corresponding error message, prompting the user to pick another username.  If the Master Credentials\* are not correct the process fails and the program outputs a corresponding error message, prompting the user to re-enter them. |

*\*Master Credentials = Office Manager’s username and password*

| **Use case** | Check Parcels by Tracking Code |
| --- | --- |
| **Actors** | Any |
| **Pre-condition** | N/A |
| **Basic Path** | Without logging in, the user can choose to check the data of a parcel, being prompted to provide the package’s tracking (AWB) code.  After providing the code, the user can see the package’s outbound, inbound addresses and ETA. |
| **Exceptions** | If the AWB code provided is not found (does not exist) the process fails and the program outputs a corresponding error message, prompting the user to enter a new AWB. |

| **Use case** | Login |
| --- | --- |
| **Actors** | Any |
| **Pre-condition** | Must have an existing account |
| **Basic Path** | Upon opening the program and choosing to log in, the user is prompted to provide their credentials.  After logging in, the user unlocks access to the functionalities of the group they belong to. |
| **Exceptions** | If the credentials are incorrect the fields refresh, outputting an error message, and the user is prompted to re-enter their credentials. |

| **Use case** | Accept / Deny Delivery |
| --- | --- |
| **Actors** | Office Manager |
| **Pre-condition** | User must be logged in as an Office Manager.  A Customer must have already submitted a delivery request, which is to be processed. |
| **Basic Path** | The Office Manager can see the delivery requests and their details, being prompted to approve or reject the delivery.  **Extension**  If the requested delivery is accepted, the functionality triggers the extension for assigning an order to a Courier which must be able to carry the parcel. |
| **Exceptions** | If no new request is present, the functionality provides a corresponding message. |

| **Use case** | Assign Order to Courier |
| --- | --- |
| **Actors** | Office Manager |
| **Pre-condition** | User must be logged in as an Office Manager.  This functionality is triggered after an order is approved by the Office Manager. |
| **Basic Path** | After approving an order, the Office Manager is prompted to pick a Courier that can carry the parcel, thus assigning the order.  After an order is assigned, it is associated with an ETA and passed on to a Courier’s list of deliveries. |
| **Exceptions** | If the Courier’s vehicle is already full, the process fails and the program outputs a corresponding error message, prompting the Office Manager to select another Courier.  If no Couriers are available the process fails, an error message is displayed and the approved request reverts to a pending approval request. |

| **Use case** | See all deliveries data |
| --- | --- |
| **Actors** | Office Manager |
| **Pre-condition** | User must be logged in as an Office Manager. |
| **Basic Path** | The Office Manager is able to see a detailed overview of all the deliveries, including data about the Customers’ names and addresses, the Couriers assigned to the corresponding parcels, the parcel’s size and ETA. |
| **Exceptions** | N/A |

| **Use case** | See assigned deliveries |
| --- | --- |
| **Actors** | Courier |
| **Pre-condition** | User must be logged in as a Courier. |
| **Basic Path** | The Courier is able to see a detailed overview of all of their deliveries, including data about the Customers’ names and addresses and the parcels’ sizes. |
| **Exceptions** | N/A |

| **Use case** | Delay ETA |
| --- | --- |
| **Actors** | Courier |
| **Pre-condition** | User must be logged in as a Courier. |
| **Basic Path** | The courier is able to delay the delivery of a parcel (through providing its AWB code), being prompted to provide a number of hours as delay (positive integer). |
| **Exceptions** | If the AWB code provided is not found (does not exist) the process fails and the program outputs a corresponding error message, prompting the user to enter a new AWB code. |

| **Use case** | Deliver Parcel |
| --- | --- |
| **Actors** | Courier |
| **Pre-condition** | User must be logged in as a Courier. |
| **Basic Path** | Upon delivering a parcel, the Courier is prompted to provide its AWB code, thus checking it off their list of deliveries, and lightening the load of their vehicle. |
| **Exceptions** | If the AWB code provided is not found (does not exist) the process fails and the program outputs a corresponding error message, prompting the user to enter a new AWB code. |

| **Use case** | Send Parcel |
| --- | --- |
| **Actors** | Customer |
| **Pre-condition** | User must be logged in as a Customer. |
| **Basic Path** | Upon activating this functionality, the Customer is prompted to provide the following informations about their parcel:   * *Size of the Parcel* * *Names of Sender and Recipient* * *Addresses of Sender and Recipient* * *Phone number of Sender and Recipient*   The request will be sent to the Postal Office, waiting to be approved by an Office Manager. |
| **Exceptions** | Parcels have a maximum size of 100. Upon registering an oversized parcel, the Customer is prompted to pick a new size. |

| **Use case** | See Delivery Overview |
| --- | --- |
| **Actors** | Customer |
| **Pre-condition** | User must be logged in as a Customer. |
| **Basic Path** | Customers can check their outgoing deliveries, being able to see all the information associated, their approval status, and their ETA, if any. |
| **Exception** | N/A |