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WPF project documentation:

User login window:

* Administrator: User name: **johnny** password:**1234** (to access main window, bus line window, bus stop window , bus fleet window, simulator window)
* User: to access the user trip window

Bus Line window:

* Adding a bus line:
* Message box displayed when the user forgets to select a region, destination, origin or bus line number.
* The begin and end stop will be updated if one of the original bus stops were deleted
* The user can delete bus stops from the line when pressing on it in the data grid
* The bus stops in the line have index’s (scroll to the right of the data grid)
* ID is a running number that can’t be changed
* Updating a bus line:
* Allows the user to add bus stops to the bus line
* Distance between bus stops on the line:
* Will only allow numbers to be entered, user should press enter key to continue.

Bus stop window:

* Adding a bus Stop:
* Message box displayed when the user forgets to enter a longitude, latitude, id or address.

Bus fleet window:

* Bus details window: double click on a bus to see it’s details, refuel and send for maintenance
* A bus can travel 1200 km before need to refuel
* A bus need maintenance every 365 days

Bus Stops schedule window:

* Select a bus stop => view the bus lines passing through the bus stop => press “start simulator” to see the scheduled time of arrival for the bus lines arriving at the station.

**Bonuses:**

1. Separating the layers according to the advanced option in DAL layer (3 pts)
2. DAL-Use of generic Clone (2 pts)
3. Everything related to BUS in DAL,BL and WPF (5 pts)
4. Adding a User in DAL,BL,WPF (5 pts)
5. Region for a bus line in the UI (2 pts)
6. deletion that causes the deletion of the Bus Station from all the places as LineStop and adjacentStop (3 pts)

(this entailed adding an automatic distance calculator in the BL for stops in a bus line for which there adjacent stop was deleted)

1. data template- bus stop window, bus line window, bus fleet window, bus stop schedule window (1 pt)
2. data trigger- bus fleet window. When a bus needs refueling it turns purple, when a bus need maintenance it turns red.(1 pt)
3. Window display to allow search for a bus line that starts at a selected Bus Stop and ends at another selected Bus stop –user trip window (3 pts )