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M3 User Story

User Story 4: “As an application admin, I want to be able to add routes, buses, and stops so that the simulation reflects the real-world MARTA bus system.”

Detailed Work Tasks:

- Add stops to the map using an x and y coordinate system. These stops will have a name, ID, and a number of passengers attribute.
- Create routes and extend them by adding stops
- Add buses to specific routes. These buses will have attributes ID, location, passengers, capacity and speed.

Acceptable Scenarios:

- Given that MARTA recently created a new route which goes from the airport to Atlantic Station, when a user opens the application, then a new route will have been created with the airport as its location.
- Given that a new neighborhood is constructed and MARTA wants to add a new stop at this neighborhood along a current route, when the user views this route, then a new stop shows on the display.
- Given that a certain route is getting too busy and a new bus is added to this route, when a user views this route, then this new bus shows on the display.
- Given that there is construction along a route and the road is blocked off, when a user views the route, then there should be an acceptable change to this route.

Done Done Criteria:

- All Acceptable scenarios are met
- Users have tested and provided feedback on the state of the application and changes have been made to suit the specified needs.
- All features of the application are working and relevant to the needs of most users.