

Elsa Rodriguez Plaza/CS6310/Assignment 6/Class Diagram

**These are the changes implemented in the class diagram for Assignment 6:**

- 1. Fixes in bus and route classes from HW2 instructor feedback**
- 2. MtSApplicationEventManager class:**
  - Includes the methods for adjusting the route, the speed and the rider capacity at simulation time
  - Includes the update function for passenger recalculation that calls the necessary functions in stop and bus classes
  - Includes the functions for measuring system efficiency
  - Includes functions for the system's replays, note that the state of the system will be saved to a file of similar structure using the `saveSystemStateToFile` private function to allow system's rewind up to 3 events as specified in the assignment description
- 3. Stop class:**
  - Includes waiting and transfer riders lists and the necessary functions for recalculating the waitings and transfers
- 4. Bus class:**
  - Includes the current rider list and the described functions for recalculating the current riders

**For clarity, I have highlighted in bold the new methods and classes added for this assignment**

In order to avoid confusion, I did not represent the datatypes and some utility classes, such as Pair, String, Integer, float, and boolean in this diagram

