

DATA BASE BUS

START THE RIDE

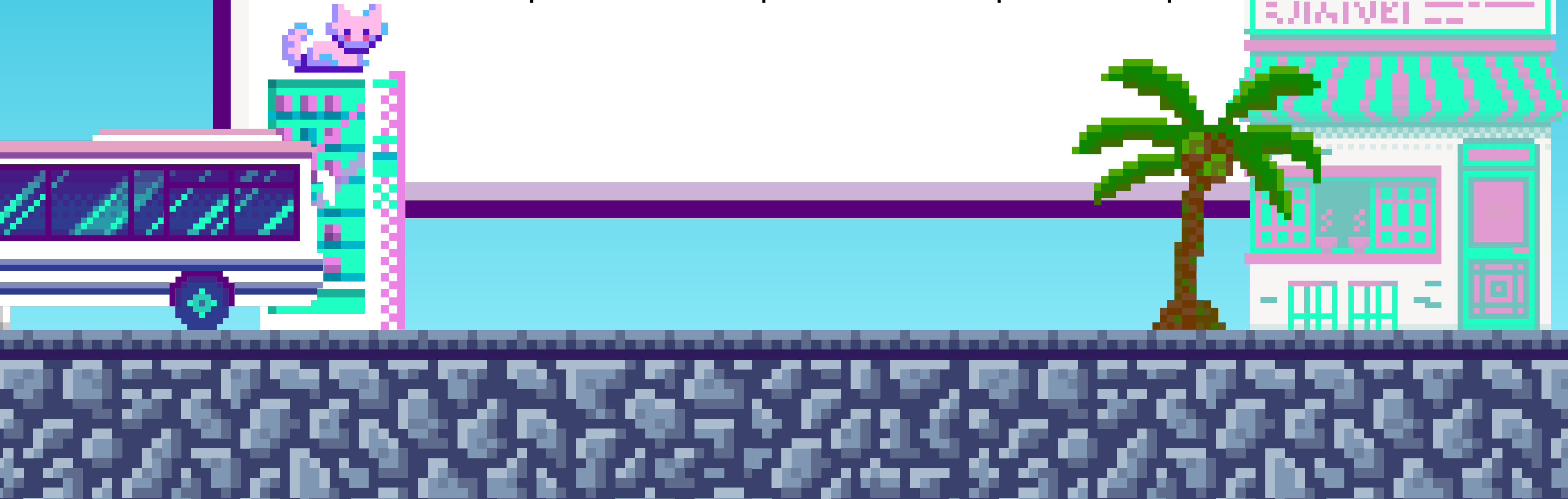
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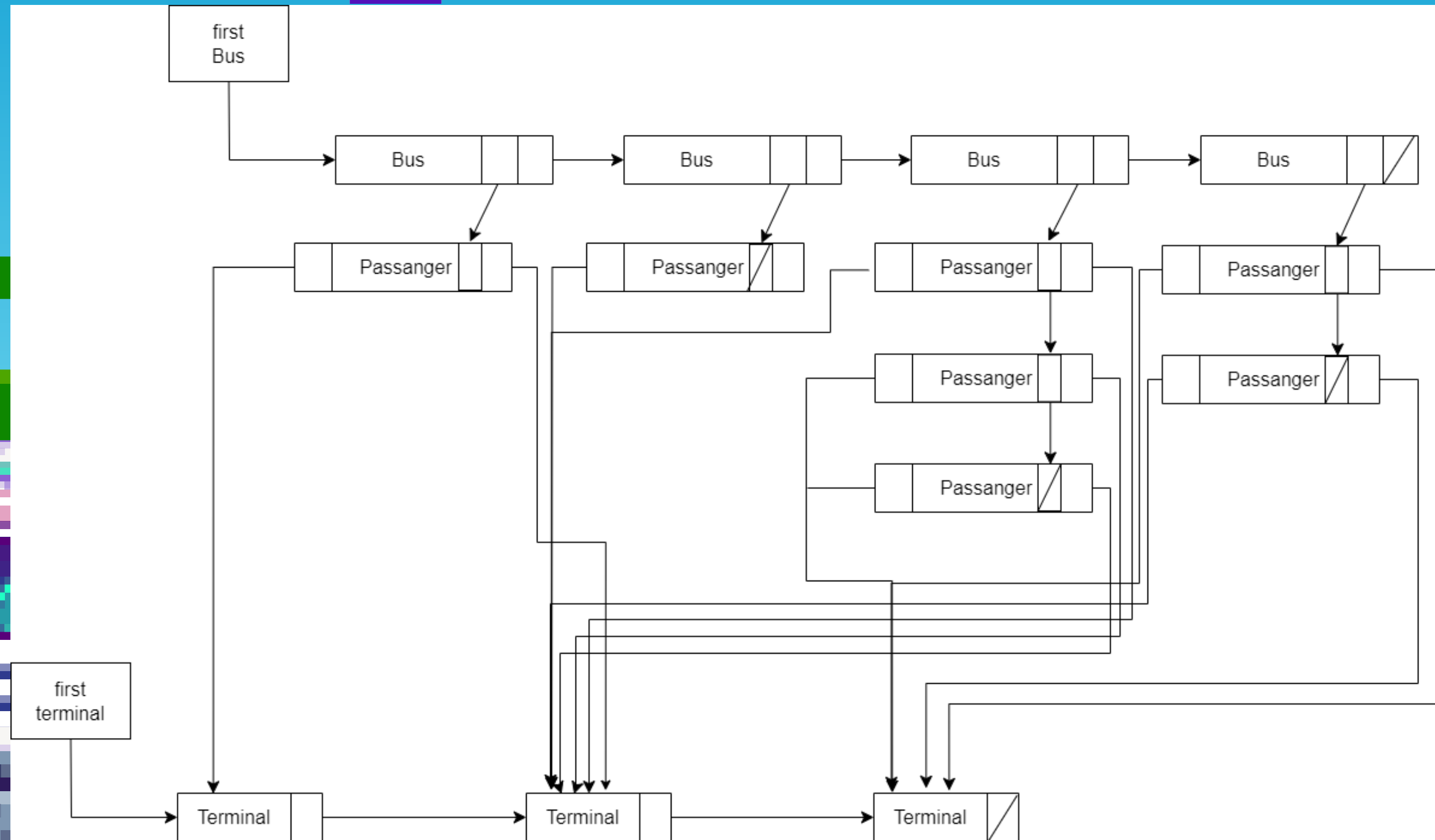


WHAT IS THIS PROGRAM?

THIS PROGRAM IS A BUS DATABASE PROGRAM WHICH INCLUDES BUSES, TERMINALS, AND OFCOURSE PASSANGERS. THE PURPOSE OF THIS PROGRAM IS TO EASILY OVERSEE THE DATA COLLECTION OF PASSENGERS GETTING ON AND OFF BUSSES, BUS DATA AND TERMINAL DATA

THIS PROGRAM USES MULTI LINKED LIST SINGLE LINKED LIST WITH TWO PARENT LIST (BUS & TERMINAL) AND ONE CHILD (PASSENGER).





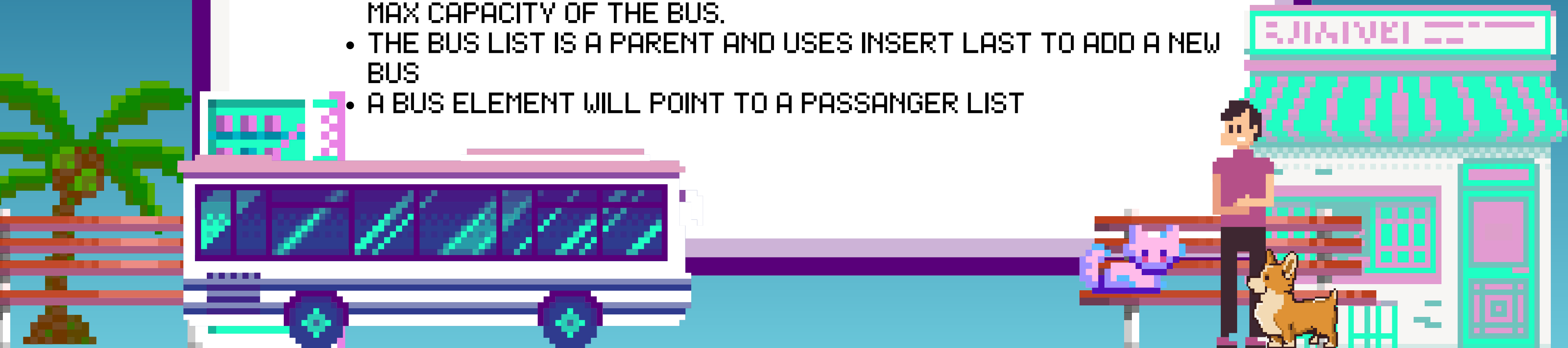


FEATURES

1. INSERT BUS
2. INSERT TERMINAL
3. REGISTER PASSENGER
4. DELETE BUS
5. DELETE PASSENGER
6. SEARCH BUS
7. SEARCH TERMINAL
8. SEARCH PASSENGER
9. SEARCH PASSENGER FROM BUS
10. PRINT ALL BUS DATA
11. PRINT ALL BUS
12. PRINT ALL TERMINAL

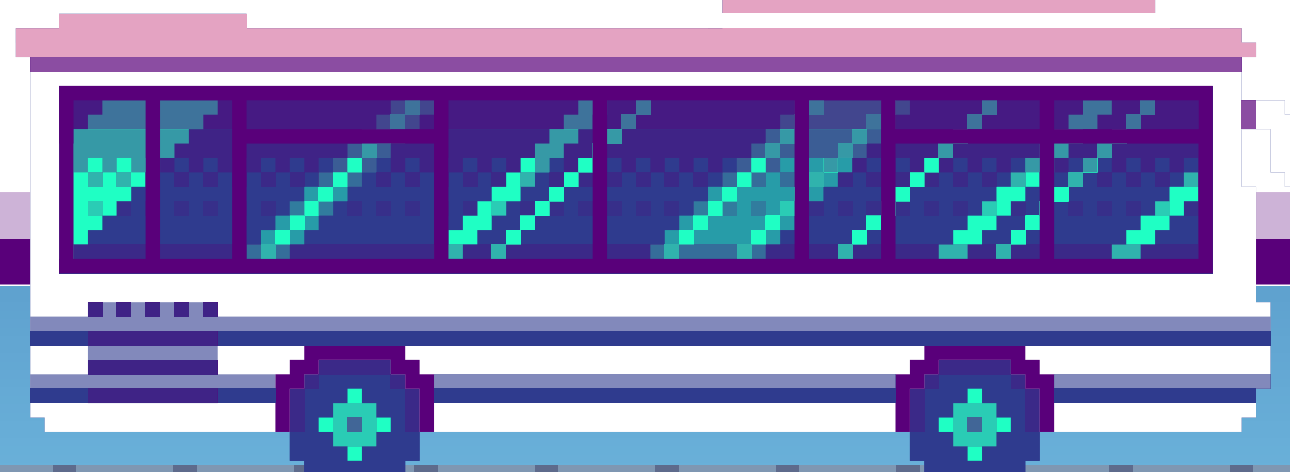
BUS

- BUSES OPERATE REGIONALLY: A BUS ONLY OPERATES IN ONE CITY THEY CANNOT OPERATE/TRAVEL TO A DIFFERENT CITY
- EACH BUS HAS THEIR OWN CAPACITY, THEY CANNOT PICK UP PASSENGERS IF THEY'RE AT MAXIMUM CAPACITY
- A BUS STOPS AT A TERMINAL TO PICK UP AND/OR DROP OFF PASSENGER/S
- TO ADD A NEW BUS USER MUST INPUT A NAME, ID, LOCATION, AND MAX CAPACITY OF THE BUS.
- THE BUS LIST IS A PARENT AND USES INSERT LAST TO ADD A NEW BUS
- A BUS ELEMENT WILL POINT TO A PASSANGER LIST



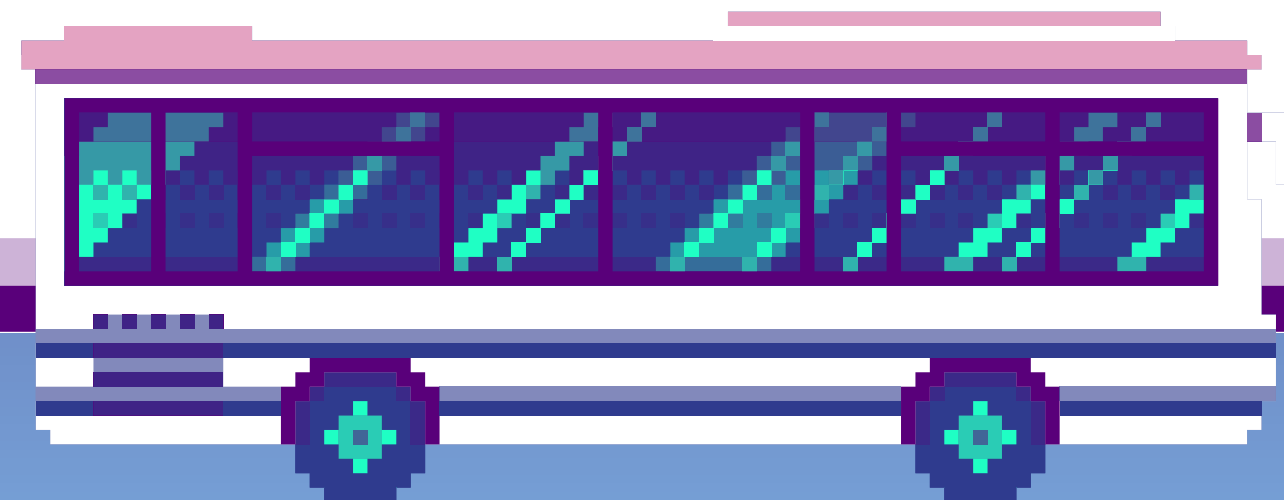
PASSENGER

- TO GET ON A BUS:
 1. PASSENGER MUST INPUT A VALID PICKUP TERMINAL AND A DROPOFF TERMINAL.
 2. PICK UP AND DROP OFF TERMINAL MUST BE IN THE SAME CITY
 3. PASSENGERS CANNOT ENTER A BUS IF THE BUS IS AT MAX CAPACITY
- A PASSENGER CAN ONLY BE REGISTERED IF THEIR PICK UP AND DROP OFF TERMINAL EXIST AND AN AVAILABLE BUS IS OPERATING IN SAID LOCATION.
- EACH PASSENGER ELEMENT HAS A PICK UP ADDRESS AND A DROP OFF ADDRESS TO CONNECT THEM TO THEIR PICKUP AND DROP OFF TERMINAL
- TO REGISTER A NEW PASSENGER, USER MUST INPUT A NAME, ID, NAME, PICK UP TERMINAL AND DROP OFF TERMINAL.
- THE PASSANGER LIST IS A CHILD. A PASSANGER LIST WILL BE POINTED BY A BUS ELEMENT AND EACH PASSANGER ELEMENT WILL POINT TO TWO TERMINAL ELEMENT WHICH ARE DROP OFF AND PICK UP.



TERMINAL

- TO ADD A NEW TERMINAL USER MUST INPUT A NAME, ID AND LOCATION.
- THE TERMINAL LIST IS A PARENT AND USES INSERT LAST TO ADD A NEW TERMINAL.
- THE TERMINAL LIST WILL BE POINTED BY PASSANGER/S. TERMINAL ELEMENTS DO NOT POINT TO ANYTHING





THANK YOU!

END OF RIDE