CS2263 Assignment 5 Report

Stephen Cole

3553803

The modules I used were:

BusRoute.h

A BusRoute contains a routeName that identifies it, a PointList that contains all the stops in that route and the number of stops in that route so that the stops can easily be looped through.

Student.h

This module is just a wrapper for the data taken in about each student, it only has one method that is createStudent and is mostly used just to improve readability. A Student has a location and a name.

PointList.h

A PointList is a list of Point2D’s, it’s methods are just for memory allocation and accessing elements in the list. It is made up of a Point2D array and it’s length.

Point2D.h

A Point2D is a 2D point containing an x and y value. This module contains getters and setters along with a distance between two points function that is used to find the closest bus route.

Test

A picture containing drawing

Description automatically generated

Output

A screenshot of a cell phone

Description automatically generated