

Bluetooth Analysis Project - Part 1: Project Setup

Required Software

1. Java SDK
2. Eclipse

Download the JUNG support files

1. Download the file jung2-2_0_1.zip into your workspace directory
2. Unzip or Expand the zip file and locate the folder that contains the jung2-2_0_1 jar files

Create the project and add the JUNG support files

1. Create a new Java project called BTanalysis
2. Open the project properties and select Java Build Path
3. Select the Libraries tab and click the Add External Jars button
4. Browse to the folder that contains the jung2-2_0_1 jar files
5. Select and add all the jung2-2_0_1 jar files

Download and add the Java class files

1. Download the file Making_The_Connection_Activity_Java.zip
2. Unzip the files and copy the files into the src folder of the BT analysis project:
BTcontact.java, BTdata.java, BTgraph.java, BTuser.java

Download and add the data file

1. Download the file BTdata1.csv
2. Copy the file to the BTanalysis project folder

Create additional classes

1. Create a class called BTmain in the BT analysis project
2. Create a class called BTanalysis in the BT analysis project

Look at the Java classes

1. Look at the BTuser class, identify the fields, constructor, access methods, and toString method
2. Look at the BTcontact class, identify the fields, constructor, access methods, and toString method
3. Look at the BTdata class, identify the fields, constructor, access methods, and toString method
4. Look at the BTgraph class, identify the fields, constructor, access methods, and toString method
5. The fields hold the data for the class, or really the objects that are created from the class
6. The constructor and access methods provide the interface to the data

Add the fields and constructor to the BTanalysis class

1. Add the fields to the BTanalysis class
BTdata data;
BTgraph graph;
2. Add the constructor to the BTanalysis class

```
public BTanalysis(String filename) {  
    data = new BTdata(filename);  
    System.out.println(data);  
}
```

Create a main method in BTmain

1. Add the main method to the BTmain class

```
public static void main(String[] args) {  
}
```
2. Create a BTanalysis object in the main method of BTmain
BTanalysis analysis = new BTanalysis("BTdata1.csv");

Run the BTanalysis project

1. Select the BTanalysis project, click the run button
2. The program should read the data file should and output to the console