Team name: **Team Infinite**

|  |  |
| --- | --- |
| **Role** | **Person** |
| BA | Vicki |
| Solution Designer | Eric, Matt |
| Developer | Nathan, Jordan |
| Tester | Vicki, Eric |

Requirements:

**Must**

M1: The process must find the closest exchange to a customer home address and display the id and location of said exchange.

M2: The distance must be calculated for each exchange and to find the closest using a grid pattern

M3: Each exchange must be defined by a unique identifier of the form ex:p:q where p and q are numbers between 0 and 9

M4: Must accept user input to specify grid dimensions (x & y independently) equal or greater than 0 and equal or less than 100,000.

M5: Customer must be at (0,0)

M6: User must be able to input the id, current capacity and location of each exchange

M7: User must be able to input up to 99 unique exchanges

*M8: The process must display a grid at the end containing the customer and the exchanges*

*M9: Each cell containing an exchange must always display its id and the distance from the customer*

**Could**

C1: The process could print the location of the exchange

C2: The process could determine when exchanges are equidistant

C3: The process could use the capacity to determine which exchange of a series of equidistant exchanges should be displayed