**Technical Test: .NET Developer**

**1. What is the minimum time to enter the string ‘global aerospace’ and what key**

**sequence would be required?**

Word: global aerospace

Total time: 3400

Key Sequence:

1.Press Key - 4 - 1 Time(s).

2.Press Key - 5 - 3 Time(s).

3.Press Key - 6 - 3 Time(s).

4.Press Key - 2 - 2 Time(s).

5.Press Key - 2 - 1 Time(s).

6.Press Key - 5 - 3 Time(s).

7.Press Key - 0 - 1 Time(s).

8.Press Key - 2 - 1 Time(s).

9.Press Key - 3 - 2 Time(s).

10.Press Key - 7 - 3 Time(s).

11.Press Key - 6 - 3 Time(s).

12.Press Key - 7 - 4 Time(s).

13.Press Key - 7 - 1 Time(s).

14.Press Key - 2 - 1 Time(s).

15.Press Key - 2 - 3 Time(s).

16.Press Key - 3 - 2 Time(s).

**2. How would you design the application to allow the characters assigned to each key to be easily reconfigured?**

I’d put the keypad values on DB table either as a rows or as a JSON string. So that it can be reconfigured easily.

For test purpose I’ve created class **KeyPadIntialiser** and JsonKeyPadIntialiser. First one loads the keypad using static values and the later uses JSON file.

If you use JSON file as keypad configuration then by replacing KeyPad.json with changes required on bin folder and reload the application would reconfigure the application keypad.