This document will comprise of all of the individual responses I received for part 2 of mentor week 1’s project, as well as my own.

**Dylan Robertson:**

1. Discuss the differences between manual testers and automation testers. Fill out the form below with their differences.

|  |  |
| --- | --- |
| **Manual tester** | **Automation Tester** |
| Less precise | More precise |
| Better for fast results to a simple bug | Large scale made easy |
| Little-to-no start-up cost, high cost long-term | Higher start-up cost, lower longevity cost |
| Low turn-around time | High turn-around time |
| Better for testing UI/UX | Not flexible or intuitive |

1. Discuss the advantages of automation testing over manual testing and fill them out to below table.

|  |
| --- |
| **Advantages of Automation Testing Over Manual Testing** |
| Automation testing is more cost effective over time |
| Automation testing is more precise |
| Automation testing is faster (higher turn-around time) |
| Better for large-scale testing |
|  |

1. Discuss the top 5 skills a Software Engineer in Test (automation tester) must have.
   1. Prioritize them in below table

|  |  |
| --- | --- |
| 1 | Communication skills, written and verbal |
| 2 | Work well in a team/under stress |
| 3 | Familiarity with test processes, creating test plans and opening bugs |
| 4 | Strong technical abilities, comfort working with various software programs |
| 5 | Programming language knowledge variance, database type knowledge |

**Suzanne Isa:**

1. Discuss the differences between manual testers and automation testers. Fill out the form below with their differences.

|  |  |
| --- | --- |
| **Manual tester** | **Automation Tester** |
| Testers manually look for bugs, errors, etc. | Uses frameworks to run tests |
| Follows written test plan that consists of various test cases | Create test scripts that automate user actions required for testing an app/ web |
| Running manual tests allows more flexibility -typically best used for short term projects | Takes longer to set up than manual testing and used on a larger scale |
| Manual testing is strong because it is tested by humans and humans will be the ones to use the software and will be the ultimate judge | Machines lack cognitive abilities and cannot depict human like intelligence |
| Lower accuracy due to human error | Higher accuracy due to computer based testing |

1. Discuss the advantages of automation testing over manual testing and fill them out to below table.

|  |
| --- |
| **Advantages of Automation Testing Over Manual Testing** |
| Cost efficient |
| Easily perform testing on a larger scale |
| Faster |
| More accurate |
|  |

1. Discuss the top 5 skills a Software Engineer in Test (automation tester) must have.
   1. Prioritize them in below table

|  |  |
| --- | --- |
| 1 | Ability to work well as part of a software team |
| 2 | Written and verbal communication skills to successfully share their results |
| 3 | Problem solving skills |
| 4 | Strong technical abilities and comfort working with programs |
| 5 | Familiar with testing processes |

**Tolgonai Serkebaeva:**

|  |  |
| --- | --- |
| Manual tester | Automation   tester |
| **Automated testing has numerous advantages for testing, but manual testing can be more beneficial in certain instances.** | |
| in manual testing, you perform the tests step by step without the help of tools | In automated testing, tests are executed automatically using automation tools & frameworks. Automation Testing is faster than manual testing. |
| Manual testing performs well in areas that require quick early results and analysis, it does not yield fruitful results for testing areas that require repeated iterations and execution of the code. It also cannot match up when the scale is huge, as it consumes time and could end up causing unnecessary delays in a fast-moving technology space. | Automation Testing comes into the picture. The ability to run iterative, parallel tests on multiple devices, browser versions, and operating systems in one go, with error logs and reports automatically generated, can easily be the difference between a market leader and a weak competitor. |
| * less accuracy due to human error | more accuracy, due to computer-based testing |
| time-consuming: more time to complete a testing cycle |  |
| high cost requires human observation and cognitive abilities. | Cannot guarantee a good UX, cause the program is not human, with no cognitive abilities. |

|  |
| --- |
| Advantages of Automation Testing Over Manual Testing |
| * Cost efficiency, * easily perform testing at a large scale, * faster turnaround time, and * better accuracy. |

Discuss the top 5 skills a Software Engineer in Test (automation tester)

must-have.

Prioritize them in the below table

|  |  |
| --- | --- |
| 1 | Ability to work well as part of a software development team |
| 2 | Written and verbal communication skills to successfully share their testing results and make recommendations |
| 3 | Strong technical abilities and comfort working with various software programs |
| 4 | Problem-solving skills |
| 5 | Ability to handle fast-paced environments with tight deadlines |

**Ayca:**

**Differences Between Manual Testers and Automation Testers**

  -The biggest difference between manual and automation testing is who executes the test case. In Manual testing, human tester does it. In automation testing the tool does it

|  |  |
| --- | --- |
| Manual tester | Automation tester |
| Testers manually look out for the defects in the software | Testers use frameworks to run tests.  Choosing the right automation frameworks is essential to deliver the high performance with low maintenance cost |
| Takes longer | More efficient |
| It requires analysts an Qa engineers to be highly involved in everything from the test case creation to execution | Involves testers writing test scripts that automate test execution.(test script is a set of instructions to be performed on the target platforms) |
| Slow and tedious but it better handles complex scenarios | Requires coding and test maintenance  but much faster and covers many more permutations |
| Time consuming | More testing in less time |

**Advantages of Automation Testing Over Manual Testing**

-The biggest pro of automation testing over manual testing is that it allows you to do more testing in less time. It increases productivity and expands how much you can test

|  |
| --- |
| Advantages of Automation Testing Over Manual Testing |
| 1. Faster 2. Cheaper 3. Efficient |

Discuss the top 5 skills a Software Engineer in Test (automation tester)

must-have.

Prioritize them in the below table

|  |  |
| --- | --- |
| 1 | As a software tester, you need to document your thought process and testing procedures.Proper documentation provides you with an organized, clearly-defined explanation of your work for supervisors and other members of the IT team. |
| 2 | Willingness to learn; as technology continues to move forward, software testers must understand how current tech trends may affect their organization and its systems. |
| 3 | As a software tester, it's important to understand the complete life cycle of a system or application, even if the testing phase is only a portion of the life cycle. |
| 4 | Software Test Engineers need to be problem-solvers with attention to detail. |