**Test Plan**

I will begin with the unit testing to confirm that with expected inputs, each individual unit performs as expected without errors before then moving on to the functional testing. This is so that the results in the functional tests are not skewed

**Test Scenarios**

|  |  |
| --- | --- |
| **ID** | **Description** |
| 1 | Searching for a student by ID |
| 2 | Searching for a student by name |

**Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Functionality** | **Input Value** | **Expected Result** | **Actual Result** | **Success?** |
| 1.1 | Searching ID | 1 | “Jordan Alibhai” | “Jordan Alibhai” | Y |
| 1.2 |  | 0 | “Student not found” | Nothing | N |
|  |  |  |  | “Student not found” | Y |
| 2.1 | Searching by name | “Jordan Alibhai” | “Jordan Alibhai” | “Jordan Alibhai” | Y |
| 2.2 |  | 1 | “Student not found” | "\*\*\* Exception: Prelude.!!: index too large | N |
|  |  |  |  | “Student not found” | Y |

2.2 – no matter the input, the exception error would appear

- hadn’t separated modules from students in dict so difference in data types caused error