|  |  |  |  |
| --- | --- | --- | --- |
| **Must** | **Should** | **Could** | **Won’t** |
|  |  |  |  |

|  |  |
| --- | --- |
| **Requirement** | **Criteria** |
|  |  |

**Module name**

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
|  |  |  |

**get\_number**

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| prompt  number | **BEGIN** get\_number  **WHILE TRUE**  **DISPLAY** prompt  response = **INPUT**  **IF** response **IS NUMBER**  **CONVERT** response to **INTEGER**  **RETURN** response  **ENDIF**  **ENDWHILE**  **END** | prompt  number |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **discount** | **price** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  | 200 |  | price ? 200 |
| 3 |  |  | 200 > 100 ? is T |  |
| 4 | 200 \* 15 / 100 = 30 |  |  |  |
| 5 |  | 200 - 30 = 170 |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  | price = 170 |
| 8 |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **discount** | **price** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  | 50 |  | price ? 50 |
| 3 |  |  | 50 > 100 ? is F |  |
| 6 |  |  |  |  |
| 7 |  |  |  | price = 50 |
| 8 |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **x** | **xSquared** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  |  |  | X, X Squared |
| 3 | 1 |  | 1 <= 3 ? T |  |
| 4 |  | 1 \* 1 = 1 |  |  |
| 5 |  |  |  | x = 1, xSquared = 1 |
| 6 | 1 + 1 = 2 |  |  |  |
| 3 |  |  | 2 <= 3 ? is T |  |
| 4 |  | 2 \* 2 = 4 |  |  |
| 5 |  |  |  | x = 2, xSquared = 4 |
| 6 | 2 + 1 = 3 |  |  |  |
| 3 |  |  | 3 <= 3 ? is T |  |
| 4 |  | 3 \* 3 = 9 |  |  |
| 5 |  |  |  | x = 3, xSquared = 9 |
| 6 | 3 + 1 = 4 |  |  |  |
| 3 |  |  | 4 <= 3? is F |  |
| 7 |  |  |  |  |
| 8 |  |  |  | ----------- |
| 9 |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Feature** | **Input** | **Expected Output** | **Actual Output** | **Action** |
| Entering date | 12/04/2022 | Value accepted | Value accepted | NA |
| Entering date | 35/13/2022 | Value rejected | Value accepted | Limit to valid dates |
| Entering date | 12/04/2035 | Value rejected | Value accepted | Limit to past dates |
| Entering email | info@test.com | Value accepted | Value accepted | NA |
| Entering email | Info.test | Value rejected | Value rejected | NA |

**check\_if\_adult(age)**

|  |  |  |  |
| --- | --- | --- | --- |
| **age** | **Expected Output** | **Actual Output** | **Action** |
| 10 | False | False | NA |
| 40 | True | True | NA |
| 17 | False | False | NA |
| 19 | True | True | NA |
| 18 | True | False | Check boundary cut-off |

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Concern** | **Data** | **Recommendation** |
| Database repopulation | Taking too long | 1 minute 20 secs to load | Only repopulate data upon update |
| UI Text | Too hard to read | Identified by 7/10 testers | Increase font size and contrast |
|  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Impact** | **Rating** | **Justification** | **Recommendation** |
|  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement** | **Criteria** | **Rating** | **Recommendation** |
|  |  |  | S |

**Teacher**

|  |  |  |  |
| --- | --- | --- | --- |
| **TeacherID** | **Name** | **Username** | **Password** |
| 1 | Danika McNirlin | dmcnirlin0 | xsy2aela |
| 2 | Carleen Quaife | cquaife1 | m684gvo9 |
| 3 | Yelena Rotchell | yrotchell2 | 67t2i9lg |
| 4 | Alvy Beste | abeste3 | 6ex9nux3 |
| 5 | Burton Collins | bcollins4 | 8jbnb8mq |
| 6 | Selle Battlestone | sbattlestone5 | on5yj1xp |
| 7 | Elena Collacombe | ecollacombe6 | ftjzf5ur |
| 8 | Klemens Alabastar | kalabastar7 | 708gljye |
| 9 | Teirtza Billany | tbillany8 | 7q3du8rv |
| 10 | Agnola Anthes | aanthes9 | dnhccxth |

**Student**

|  |  |  |  |
| --- | --- | --- | --- |
| **StudentID** | **Name** | **Username** | **Password** |
| 1 | Annalee Pusey | apusey0 | cjouyc2b |
| 2 | Germain Woolfitt | gwoolfitt1 | p3dnslpp |
| 3 | Mendel Markey | mmarkey2 | 3pl0zdoz |
| 4 | Jimmie Trumper | jtrumper3 | 2c7qpl5x |
| 5 | Rachael Orbon | rorbon4 | o5g13cr7 |
| 6 | Constantine Vel | cvel5 | 0a36wfht |
| 7 | Vevay Mauger | vmauger6 | zkklejxs |
| 8 | Nikoletta Fewings | nfewings7 | tdwz0vr6 |
| 9 | Pearl Gallahar | pgallahar8 | 3bdbwqk5 |
| 10 | Byrann Buey | bbuey9 | wu8odl9t |

**Subject**

|  |  |  |
| --- | --- | --- |
| **SubjectID** | **Name** | **TeacherID** |
| 1 | English | 1 |
| 2 | Maths | 3 |
| 3 | Science | 3 |
| 4 | Humanities | 9 |

**Enrolment**

|  |  |  |
| --- | --- | --- |
| **SubjectID** | **StudentID** | **Result** |
| 1 | 2 | A |
| 1 | 4 | B |
| 1 | 6 | A |
| 1 | 9 | C |
| 2 | 1 | D |
| 2 | 2 | C |
| 2 | 7 | B |
| 2 | 10 | C |
| 3 | 1 |  |
| 3 | 5 |  |
| 3 | 3 |  |
| 3 | 8 |  |
| 4 | 3 |  |
| 4 | 10 |  |
| 4 | 3 |  |
| 4 | 6 |  |

**Create\_database**

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
|  | **BEGIN**  **CREATE TABLE Teacher**  **CREATE TABLE Subject**  **SubjectID INT PK**  **Name TEXT**  **CREATE TABLE Student**  **StudentID INT PK**  **Name TEXT** | prompt  number |