**Report about best devices in PC, best operating system and suitable programming languages.**

**System Name:**

* **Best Devices**
* **Server: to handle the amount of big data (Employees& mangers)**
* **Workstations: for stuff and admins**
* **Networking : to access network**
* **Best Operating System**
* **Windows :the most widly used os in management system**
* **Linux : the popular os for servers**
* **Mac os: is user-friendly option for workstations**
* **Suitable Programming Languages**
* **C# : the best choose for desktop apps**
* **Sql: To mange and control data on database**
* **Python : high level language used in ai and machine learning**

**Design of an integrated system (Class diagram)**

|  |
| --- |
| **Product:** |
| **+ProductID**  **+Name**  **+Description**  **+Quantity**  **+Price**  **+SupplierID** |

|  |
| --- |
| **Supplier** |
| **+SupplierID**  **+Name**  **+Phone** |

|  |
| --- |
| **User:** |
| **+UserID**  **+Name**  **+Password**  **+Email**  **+Role** |

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1. | test the login page  with valid username  && valid password | Enter user name  &&  Enter password  click on login  button | username=MO  password  =123 | Open PROdect  page | Open PROdect  page | pass |
| 2. | test the login page  with valid admin username  && valid password | Enter user name  &&  Enter password  click on login  button | username=  mohamed  password  =  password123 | open  Admin page | open  Admin page | pass |
| 3. | test the login page  with invalid username  && valid password | Enter user name  &&  Enter password  click on login  button | username=moo  password  =12345 | display  Error  Massege | display  Error  Massege | pass |
| 4. | test the login page  with invalid username  && invalid password | Enter user name  &&  Enter password  click on login  button | username=moo  password  =pass | display  Error  Massege | no output | fail |
| 5. | test the login page with out data | click on login  button | username=""  password  ="" | display  Error  Massege | display  Error  Massege | pass |