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

**System Name:**

* **Best Devices**
* Pc core i5
* Server for handling large data for task management like hp plaitant
* Pc 64 bit
* **Best Operating System**
* Windows easy to use and popular operating system
* Macos friendly with apple product
* Linux more security
* **Suitable Programming Languages**

C# popular language to desktop app

Python is poplar language to data analysis

Java is popular language and including health software

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

Account

* + **UserID (Primary Key, int)**
  + **Name (nvarchar, required)**
  + **Password (nvarchar, required)**
  + **Email (nvarchar, required, unique)**
  + **Role (nvarchar, options: Manager, Employee)**

**-------------------------------**

**login**

**task**

**TaskID (Primary Key, int)**

* + **Title (nvarchar, required)**
  + **Description (nvarchar, optional)**
  + **Status (nvarchar, options: Pending, In Progress, Completed)**
  + **DueDate (datetime)**

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Add

Eidt

Delete

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | User log to account manager | Enter username and password | Username=fatma  Password=fatma123 | Login to window1 | login | pass |
| 2 | User log to account employee | Enter username and password | Username=ahmed  Password=ahmed147 | Login to window2 | logined | pass |
| 3 | Manager add task | Enter tasked, title, description, chosse staus, employee name | Tasked=4  Title=h  Description=f  Status=pending  Employee name=a | Add it | Added task | pass |
| 4 | Manager eidt task | Choose task to eidt | Click on task to eidt | Edit it | Edited task | pass |
| 5 | Manager delete task | Choose task to delete | Click on task to delete | Delete it | Deleted task | pass |
| 6 | Employee eidt your status | Enter id task, choose staus | Task id=3  Staus=compeleted | Update it | Updated task | pass |