**Task Management System**

**Report**

**System Name:**

* **Best Devices**

1. **Developers PCs should be with specs such:**

**Processor: Core i7 gen 8**

**Ram: 32gb**

**Vga-Card: Nvidia Quadro P3200**

**Capacity: 512gb SSD**

1. **Cisco or dell server with specs:**

**Processor: Intel Xeon**

**Ram: 90gb**

**Capacity: 100TB SSD**

* **Best Operating System**

**For Developers PCs: Windows 10 23H2 pro or later.**

**For Server: Windows Server**

* **Suitable Programming Languages**

**For app logic and backend: C#**

**For Stable and fast Database: SQL**

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

Users

-Userid

-User Name

-User Pass

-User mail

-Roles

-Login()

-PageNav/Role()

Roles

-Employees

-Managers

Tasks

-Task id

-Title

-Description

-Status

-Date

-ADD()

-Update()

-Delete()

-Read()

TaskMS

-Users

(Employees)

,(Managers)

-Tasks

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Login by Empty data | Set username and password with null | Username=null  Password=null | Error  Message | Error  Message | Pass |
| 2 | Setting the tasks from Pending to Completed | Selecting task and add to other table | Set Statues=  Completed | Set the Task as completed in the other table (Completed tasks) | Set the Task as completed in the other table (Completed tasks) | Pass |
| 3 | Reading the data from Database | Open the app to see if the database list could be read in the grid | Data in database | Read successfully | Read successfully | Pass |
| 4 | Adding a task | Press the add button after inserting all the data of the Task | Task Name  =App development  Task Description  =Front end part  Task Status  =In progress  Task employee  =Jana | Add the task to the table | The task added to the table | Pass |
| 5 | Updating Task info | Selecting the added task and edit its information | Edit the Task employee  =Osama | Edit the task info | The task info updated | Pass |
| 6 | Delete the Task | Selecting the task and press delete | Delete all:  Task Name  Task Description  Task Status  Task employee | Delete the task | Task deleted | Pass |