**Report about best devices & OS & programming languages & database and applications.**

**System Name: Task Management System**

1. **Devices**

**In this case we will use a good devices that can store a large amount of data and completely manage tasks very well, we will need to a device that have a good CPU like Intel core I7 Gen 10 we choose Intel because Intel can give you a great performance and keeping its performance at the highest level, and for storing data we need to a device that have at least 1T (Recommended “2T”) to store a large amount of data with no problem, and for the RAM we will need to a device that have at least 8 RAM (Recommended “16 RAM”) to process the Run well and Completely, for the Screen we will need a normal Screen because we will not use it for a hard graphics so we will take a hp Screen.**

1. **Operating Systems**

**For Best Operating Systems we will take Windows because it’s the most OS using in the world and it’s the easiest way to use a OS, also you can use Linux OS Because it has a great Secure for data and to your work .**

1. **Programming Language**

**For Best Programming Language we will use C# because it’s a great Language to use it and it has man functions built in that can help you to complete your projects, also we can use Html because in Web Application html Considered one of the best Programming Language**

**That can help you to build your Projects well and completely.**

1. **Database**

**For Best Database that can help us to store data we will use SQL: Sql Management System it can help us very well to store data to don’t lose it at any time.**

1. **Applications**

**We will use Visual Studio Code and we use in it language C# and html by using an API and MVC: Model-View-Controller and we will doing the css in the project and build it successfully and the navigation in backend between the pages**

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

|  |
| --- |
| Tasks |
| Task\_Id |
| Task\_Description |
| Task\_Status |
| Task\_Piriorty |
| Task\_DeadLine |
| Project\_Id |
| TeamMember\_Id |

|  |
| --- |
| TeamMember |
| TeamMember\_Id |
| TeamMember\_Name |
| TeamMember\_Email |
| TeamMember\_Role |

1

M

M

1

|  |
| --- |
| Projects |
| Project\_Id |
| Project\_Name |
| Project\_Description |
| Project\_StartDate |
| Project\_EndDate |

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Update an Projects table | Update project | Edit the old data, project3 | Updated done | Updated done | pass |
| 2 | Create an Projects table | Create Project | Insert new data, project4 | Created success | Created success | pass |
| 3 | Delete and Projects table | Delete Project | Delete old data,  Project4 | Deleted success | Deleted success | pass |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |