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

**System Name: Task Management System**

1. **Devices :use to use this web pc 8 G RAM , Hard 256 G and processor core i5 and need the server or would to save data and publish web site and publish database**
2. **Operating Systems :to use this app need windows os or android to mobile and need window server in my server because in window server a lot of feature to save data**
3. **Programming Language :use C# in pack end to create a crud operation ex. Add project ,update task and use html to create pages ex. Forms and table and use bootstrap and css to design my page**
4. **Database : in database use sql server because sql server in database easy to web application and use entity framework**
5. **Applications :use web because web work in mobile and pc and user inter face easy to use**

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

|  |
| --- |
| tasks |
| id |
| Title |
| Description |
| Status |
| Priority |
| Deadline |
| ProjectId |
| TeamMemberId |
| Show() |

|  |
| --- |
| TeamMember |
| id |
| Name |
| Email |
| Role |
| ShowTeamMember() |
| Showprofile() |

|  |
| --- |
| Project |
| id |
| Name |
| Description |
| StartDate |
| EndDate |
| Add() |
| Update() |
| Delete() |

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| 1 | Add a new project name = null | Entering full info to project any name | name =null  Description =”proj”  Stratdate =”1/1/2024”  EndDate==”1/1/2024” | Return to view add to enter the name | Return to view add to enter the name | Pass |
| 2 | Add a new project Description = null | Entering full info to project any Description | Description =null  name =”proj”  Stratdate =”1/1/2024”  EndDate==”1/1/2024” | Return to view add to enter the Description | Return to view add to enter the Description | Pass |
| 3 | Update task Status from Pending to In Progress | Choose from dropdown In Progress and click save | Dropdown Status =” In Progress” | Update task Status to In Progress | Update task Status to In Progress | pass |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |