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

**System Name:**

1. **Devices**

**Dell Xps , intel core i5, ssd 217 because dellxps is performance and Is good used**

1. **Operating Systems**

**Windows 10 because friendly user inter face and security data**

1. **Programming Language**

C# language because is easy , support MVC and support net frame work , net core and easy in connect sql .

1. **Database**

**Sql database because is performance and easy connect with Visual studio**

1. **Applications**

**Web application because not install in my Devices and update easy**

**Visual studio because easy in work at c# and front end(html, css, js)**

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

Project

Int Id

String Name

String Description

DataTime StartDate

DataTime EndtDate

Create()

Details()

Update()

Delete()

TeamMember

Int Id

String Name

String Email

String Role

Details()

Update()

task

Int Id

String Title

String Description

String Status

String Priority

DateTime Deadline

Int ProjectId(ForeignKey)

Int TeamMemberId(ForeignKey)

Update()

(

**Project** :**Tasks** (one-to-many)

**TeamMember** : **Tasks** (one-to-many).

**Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test case ID** | **Test case description** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| T01 | Enter user on web site ,Choose user project and press on button Edit | 1.Enter user on web site  2.choose project  3. press on button Edit | If id equal null | Return BadRequest | Return BadRequest | pass |
| T02 | Enter user on web site ,Choose user project and press on button Edit | Enter user on web site ,2.Choose project 3.press on button Edit | If project equal null | Return page Not Found | Return page Not Found | pass |
| T03 | Enter user on web site ,Choose user project and press on button Edit | 1.Enter user on web site ,2.Choose project  3. press on button Edit | If project not equal null | User edit data project and transfer index page | User edit data project and transfer index page | pass |
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