**Documnetation of Ras desta hospital managemant system**

Project 1 manage web –based system project

Task 1 prepare bill of quantity

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item/profession | description | quantity | Price(birr) | Total price(birr) |
| Project manager | Project manager | 1 | 100000 | 100000 |
| UI/UX Designer | Design project | 1 | 25000 | 25000 |
| Frontend developer | User interface | 1 | 50000 | 50000 |
| Backend developer | Server side developer | 1 | 50000 | 50000 |
| Software | Vs code/ xampp/browser |  | Open source | Open source |
| Database administrator | Database manager | 1 | 10000 | 10000 |
| Computer | Ram 16gb/ 1tr/3GHz | 3 | 100000 | 300000 |
| Web hosting | .com/.net | yearly | 5000 | 5000 |
| Taster | System tester | 1 | 20000 | 20000 |

Task 2 prepare activities plan the given scenario

|  |  |
| --- | --- |
| Activities | Responsible person |
| Initiation planning | Project manager |
| design | UI/UX designer |
| Developers | Frontend/Backend developers |
| Deployment | Developers |
| Tester | System tester |
| Maintenance | developers |

Task 3 prepare time schedule

|  |  |
| --- | --- |
|  | Week |
| Planning and requirement gathering | 2 week |
| UI/UX design | 1week |
| Frontend develop | 2week |
| Backend develop | 2week |
| Testing | 1week |
| Web hosting | 1week |

Task 4 prepare database and system architecture

|  |  |
| --- | --- |
| Entity | Attribute |
| Patient | PatientId(pk), |
| CUSTMER | C\_ID , C\_NAME , ADDRESS |
| EMPLOYEE | E\_ID , E\_NAME , ADDRESS |

|  |
| --- |
| ST0CK |
| S\_ID (PK) |
| S\_NAME |

|  |
| --- |
| CUSTMER |
| C\_ID (PK) |
| C\_NAME |
| ADDRESS |

|  |
| --- |
| EMPLOYEE |
| E\_ID (PK) |
| E\_NAME |
| ADDRESS |

system architecture

presentation layer (mobile)

application layer (python)

data layer (mysql/postgers )

Task 5 prepare scalability and standardization plan

Scalability

\*Horizontal scaling

\*Use cloud platform (ASW/azure e.t.c)

Standardization

Use HTML5, CSS3,JAVASCRIPT(REACT,ANGULAR)

TASK 6 prepare maintenance and recovery plan

Maintenance

Bug fixing

Recovery plan

backup recovery

resister = recover time objective (RTO) and recover plan objective(RPO)

version control ( git)