2.2.4 Design Constraints

Non-functional requirements that impact (constrain) how the system is created but not what the system does are known as design constraints. Design constraints are design limits. These include enforced limits over which you have no control and self-imposed limitations used to enhance a design.

2.2.4.1 Records Management Systems

* Target Operation System: The main aim of this project is to provide record management system where they can store, manage and maintain the record details of this institution.
* Hardware requirement:

1. Operating system: windows 8 or later
2. Processor:  Minimum 1GHz
3. Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
4. Hard Drive: Minimum 64 GB is required

2.2.4.2 Student Records/Information Portal

* Target Operation System: The main aim of this project is to provide record management system of student where they can store, manage and maintain the student record with information portal details of this institution.
* Application package: SQL
* Design Approach: For the mock-up layout, we used a software program referred to as figma.com and for wireframe layout of the system we used diagrammatic approach.
* Font-end graphic style: The system is built using a consistent company format.

2.2.4.3 Woodlands University College Corporate Website

* Target Operation System: The main aim of this project is to provide record management system where they can store, manage and maintain the record details of this institution.
* Design Approach: For the mock-up layout, we used a software program referred to as figma.com and for wireframe layout of the system we used diagrammatic approach.
* Font-end graphic style: The system is built using a consistent company format.
* Programming language: HTML, CSS, JavaScript and Java are the programming language that has been used to create the system.

2.2.5 Commercial Constraints (Total Project)

Basic commercial constraints like time and budget are taken into account to assist potentially complex cost/time scale calculations, a range of project management strategies have been created.

|  |  |  |  |
| --- | --- | --- | --- |
| Project information |  |  |  |
| Total length of project | 77 days |  |  |
| Hourly wage | £150 per person |  |  |
| Number of workers | 6 |  |  |
|  | |  |  |
| Project breakdown |  |  |  |
| Section | Weeks | Hours per week per person | Total wage |
| Requirement specification | 1 | 2 | £5000 |
| Design and analysis | 2 | 3 | £10589.05 |
|  |  |  |  |
| Project built breakdown | 3 |  |  |
| Console | 30% | 2 | £60000 |
| Website | 25% | 6 | £100000 |
| Student information portal | 10% | 6 | £98050 |
| Testing | 30% | 4 | £45000 |
| Evaluation | 5% | 7 | £30000 |
|  |  |  |  |
| Additional cost |  |  |  |
| Reason | Cost |  |  |
| Software/hardware | £750500.40 |  |  |
| Office cost (£100 per week) | £65000.25 |  |  |
|  |  |  |  |
| Total built cost | £ 5,090,000 |  |  |
|  |  |  |  |
| Other expenses (10%)  Profit margin (30%)  Profit rights | £3526.77  £5480.32  Negotiable |  |  |
|  |  |  |  |
| Total project cost | £ 6,500,000 |  |  |

**2.2.6 Acceptance Tests (Total Project)**