2.2.4. Design Constraint

Programming language:

Operating system:

We were asked by clients to make the services available across all platforms, along with IOS and Android.

Framework:

The client has not specified, so any framework we think is more appropriate can be used.

Front-end graphic style:

The client seeks a bright hue to make it look more enchanting and there should be the use of bold letters.

Design approach:

The client advised object-oriented design, which includes both top-down and bottom-up approaches.

Software Architecture:

Instead of using local architecture, the client suggested using a distributed architecture.

2.2.5. Commercial Constraints (Total Project)

Schedule:

The client has set a deadline of mid-July for the design and study to be completed and the final product should be delivered to the customer by November 20th.

Estimated Budget:

Around £250,000

The expected budget is shown in the table below based on factors like:

1. The amount of time it took to finish the work and the estimated staffing costs.
2. The cost and the resources of the project.
3. Necessary gain margin

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Project Information | |  |  |  | |  |
| Overall Project  Duration(week) | | 25 |  |
| Wage per hour: | | £ 25.0 |  |
| The Number of employees: | | 10 |  |
|  | |  |  |
| Project breakdown | |  |  |  |  |  |
| Section | | Weeks | Hours per week/p | erson | Total person | Total wage |
| Requirement specification | | 4 weeks | 40 hours |  | 1 | £ 4,000 |
| Design and analysis | | 8 weeks | 40hours |  | 1 | £ 16,000 |
| Project build breakdown | |  |  |  |  |  |
|  | |  |  |  |  |  |
| Website | | 6 weeks | 40 hours |  | 4 | £ 24,000 |
| Database management | | 10 weeks | 40 hours |  | 4 | £ 40,000 |
| Testing | | 1 week | 40 hours |  | 4 | £ 4,000 |
| Evaluation | | 1 week | 40 hours |  | 6 | £ 6,000 |
|  |  |  |  |  | |  |
| Added costs | |  |  |  |  |  |
| Reason | | Cost |  | |  |  |
| Software/Hardware | | 5000 |  | |  |  |
| Office charge | | 2500 |  | |  |  |
|  |  |  | | | | |
| Entire build cost | |  |  | |  |  |
|  |  |  | | | | |
| Other expenses (10%) | | £5000 |  | |  |  |
| Profit margin () | | 59% |  | |  |  |
|  |  |  | | | | |
| Overall project cost | | £262500 |  | |  |  |

3. **System Analysis and Design (Records Management System)**