**CS632 – IT PROJECT MANAGEMENT**

**Project: Student Connect Website**

**Group: 6**

**Submitted by: Ratna Meena Shivakumar**

**Project Scope:**

• To create a website that allows students from different universities to connect and collaborate.

• To provide a platform for developing strong social ties among students. • To improve student’s skills in communication, teamwork, and problem-solving. • To facilitate exploration and enhancement of students’ knowledge in a broader perspective

• To develop features for networking, studying, building projects, and exchanging ideas. • To promote active engagement and learning among students through online collaboration

**PROJECT COST ESTIMATION:**

**(1) ANALOGOUS ESTIMATE OF EFFORT OR COST**

**Previous SimilProject**

**Previous**

**Project Effort (Column 2)**

**Multiplier defining complexity of**

**current project (Column 3)**

**Current Project Estimate**

Previous similar

project building a less complex website like student connect

$12000 cost This project is **twice** as complex.

Previous Project Effort \*

complexity

= 10000 \* 2

= $ 24000

**(2) METHOD 4: WBS Method**

| **Activity Cost Estimate** | | | | |
| --- | --- | --- | --- | --- |
| **WB1** | **Activity Start date : Feb 20, 2023** | | **Activity End date: March 13, 2023** | |
| **Description: Planning** | | | |
| **Detailed Description** | 1.1. Define project scope and objectives.  1.2. Identify stakeholders and project team members.  1.3. Develop a project plan and timeline.  1.4. Set project milestones and deliverables.  1.5. Estimate project budget.  1.6. Identify potential risks and develop a risk management plan. | | | |
|  | **Human Resources** | **Cost Per Hour** | **Hours** | **Total** |
| Project Manager | 20 | 189 | 3780 |
| Architect | 15 | 70 | 1050 |
| Stakeholders | NA | NA | NA |
| **Total** | | | **4830** |
| **WB2** | **Activity Start date : March 13, 2023** | | **Activity End date: March 25, 2023** | |
| **Description: 2. Analysis and Design** | | | |
| **Detailed Description** | 2.1. Conduct user needs analysis and define user interaction model. 2.2. Define user stories and use cases.  2.3. Develop wireframes and design prototypes.  2.4. Develop user interface (UI) and user experience (UX) design. | | | |
|  | **Human Resources** | **Cost Per Hour** | **Hours** | **Total** |
| UI/UX Designer | 18 | 96 | 1728 |
| Business Analyst | 16 | 50 | 800 |
| Project Manager | 20 | 54 | 1080 |
| **Software** | **Cost per year** | **Quantity** | **Total** |
| Designing tools -  Figma, Jira | 1525 | 1 | 1525 |
| **Total** | | | **5133** |

| **WB3** | **Activity Start date : March 25, 2023** | | **Activity End date: May 3, 2023** | |
| --- | --- | --- | --- | --- |
| **Description: Development** | | | |
| **Detailed Description** | 3.1. Set up a development environment and tools.  3.2. Develop the website's front-end using HTML, CSS, and JavaScript. 3.3. Develop the website's back-end using a programming language like PHP or Python. 3.4. Develop the website's database and integrate it with the back-end. 3.5. Implement user authentication and authorization functionality. 3.6. Develop features and functionalities based on the user stories and use cases.  3.7. Conduct unit testing and integration testing | | | |
|  | **Project Personnel** | **Cost Per Hour** | **Hours** | **Total** |
| UI Developer | 18 | 240 | 4320 |
| Developers | 19 | 240 | 4560 |
| Project Manager | 20 | 150 | 3000 |
| **Software** | **Cost/unit** | **Quantity** | **Total** |
| Development tools | 750 | 1 | 750 |
| Hardware | Cost | Quantity | Total |
| Server | 2500 | 1 | 2500 |
| Storage devices | 1500 | 1 | 1500 |
| **Total** | | | **16630** |
| **WB4** | **Activity Start date : May 3, 2023** | | **Activity End date: May 8, 2023** | |
| **Description: Testing** | | | |
| **Detailed Description** | 4.1. Conduct functional testing to ensure all features and functionalities work as intended.  4.2. Conduct performance testing to ensure the website can handle a large number of users and traffic.  4.3. Conduct regression testing to ensure the website is user-friendly and easy to use.  4.4. Conduct security testing to ensure the website is secure and protected against cyber-attacks  4.5. Conduct accessibility testing to ensure the website is accessible to all users, including those with disabilities. | | | |
|  | **Project Personnel** | **Cost Per Hour** | **Hours** | **Total** |
| Tester/QA | 13 | 25 | 325 |
| Software | Cost | Quantity | Total |
| Testing tools | 500 | 1 | 500 |
| **Total** | | | **825** |

| **WB5** | **Activity Start date : May 8, 2023** | | **Activity End date: May 18, 2023** | |
| --- | --- | --- | --- | --- |
| **Description: Deployment** | | | |
| **Detailed Description** | 5.1. Deploy the website on a hosting server.  5.2. Configure the website's domain name and SSL certificate.  5.3. Verify website functionality and user experience in live environment. | | | |
|  | **Project Personnel** | **Cost Per Hour** | **Hours** | **Total** |
| Tester | 13 | 10 | 130 |
| Developers | 19 | 5 | 95 |
| Project Manager | 20 | 5 | 100 |
| **Misc** | **Cost** | **Quantity** | **Total** |
| Web hosting | 500 | 1 | 500 |
| **Total** | | | **825** |
| **WB6** | **Activity Start date : May 18, 2023** | | **Activity End date: June 15, 2023** | |
| **Description: Maintenance and Support** | | | |
| **Detailed Description** | 6.1. Provide ongoing maintenance and support to ensure the website is up-to date and running smoothly.  6.2. Conduct regular backups and updates.  6.3. Address any bug fixes or issues that arise post-launch.  6.4. Monitor website performance and user feedback.  6.5. Continuously improve the website based on user feedback and changing needs. | | | |
|  | **Project Personnel** | **Cost Per Hour** | **Hours** | **Total** |
| Admin | 17 | 20 | 340 |
| Developers | 19 | 5 | 95 |
| Project Manager | 20 | 5 | 100 |
| **Total** | | | **535** |

**Total Cost = WB1 + WB2 + WB3 + WB4 + WB5 + WB6 = $28778**