**Project Online Education: Courses**

**Executive Summary:**

The benefits of an online platform are that you can attract students all over the world as they do not have to go to the college in-person. Online systems are also easily scalable and can be modified to add whatever you need. Our group is assigned with designing the course list. We are also assigned with designing the layout of each course and what is needed and not needed. Without courses, online education will never happen.

**Requirements:**

Technical:

* Scalable system – increasing number of students.
* Secured system – no leaks on exams or quizzes.
* Clear documentation – how to use the system.  
    
  Business:
* Integrated easily – make sure the system connects with canvas, D2L, or other teaching methods .so teachers can manage the class with minimum effort.  
    
  Quality:
* Testing – system should be at-least 75% tested before use.
* Standards – system should follow IS0 9216 quality standards.

**Cost Analysis of options:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **.NET** | Monthly | Total (9 Months) | **Node JS** | **Monthly** | **Total (9 Months)** |
| Noah | $8,330.00 | $74,970.00 | **Person 1** | $9,416.67 | $84,750.00 |
| Collin | $8,330.00 | $74,970.00 | **Person 2** | $9,416.67 | $84,750.00 |
| Matt | $8,330.00 | $74,970.00 | **Person 3** | $9,416.67 | $84,750.00 |
| Logan | $8,330.00 | $74,970.00 | **Person 4** | $9,416.67 | $84,750.00 |
|  |  |  | **Additional Developer** | $9,416.67 | $84,750.00 |
|  |  |  | **Trainer** | $9,416.67 | $84,750.00 |
| Visual Studio cost: | $45.00 | $405.00 | Amazon EC2 Cost: | $57.00 | $513.00 |
| SQL Server cost: | $1,145.66 | $10,310.94 | Node JS: | $0.00 | $0.00 |
| Windows Server Cost: | $512.91 | $4,616.19 | Mongo DB: | $0.00 | $0.00 |
|  |  |  |  |  |  |
| Total Expense: | $18,363.57 | $165,272.13 |  | **$56,557.00** | **$509,013.00** |

**Developed Features:**

* Basic course page
* Course information
* Relevant videos from that course

**Conclusion and Future Work:**

This is simply a proof of concept; in the future we plan to fill out our course database and optimize retrieval of courses and information. Starting in September, we hope to collaborate with other teams and finish setting up our courses page. We will also start to work on the design of our page and try to finalize that. This has been a worthwhile investment towards the completion of the course system.