Project Plan

CSC425 BSCS Integrated Project

Trident University International

Project: ServiceOrders

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# Project Schedule

The project schedule is based on the Agile Scrum framework. Work will be divided into two-week sprints with clearly defined objectives at each step. The Product Owner, Scrum Master, and Team roles will all be filled by the single developer working on this project due to its small scale.

Project Timeline:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Task Name** | **Start Date** | **End Date** | **Duration (Days)** | **Days Complete** | **Days Remaining** | **Percent Complete** |
| Develop Software Requirements Specification | 11/27/2017 | 12/10/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Design Documentation | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Project Plan | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Web Application Framework | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Basic UI Framework | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Manual Models for Proof of Concept | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Operational Documentation | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Publish Prototype Source Code | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Implement Remaining UI Elements | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Script for Passing Location to API | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Database | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Update Operational Documentation | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Publish Alpha Source Code | 12/11/2017 | 12/24/2017 | **13** | **13.00** | **0.00** | 100% |
| Develop Development and Deployment Plan | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Refine UI and Logic | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Create Web App Server on Azure | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Create Database Server on Azure | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Publish Web App and Database to Azure | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Update Operational Documentation | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Publish Beta Source Code | 1/1/2018 | 1/14/2018 | **13** | **0.00** | **13.00** | 0% |
| Develop Test Plan | 1/15/2018 | 1/28/2018 | **13** | **0.00** | **13.00** | 0% |
| Refine and Debug | 1/15/2018 | 1/28/2018 | **13** | **0.00** | **13.00** | 0% |
| Update Operational Documentation | 1/15/2018 | 1/28/2018 | **13** | **0.00** | **13.00** | 0% |
| Publish Final Release Source Code | 1/15/2018 | 1/28/2018 | **13** | **0.00** | **13.00** | 0% |

Gantt Chart:

# Project Budget

|  |  |  |
| --- | --- | --- |
| **Item** | **Cost** | **Notes** |
| **Development** |  |  |
| Materials | $0.00 | Materials for the development phase are free |
| Software Licenses | $0.00 | Software Development tools used for this project are free |
| Design Labor | $4,500.00 | Based on a bi-weekly salary rate of 3,000.00 for one developer |
| Implementation Labor | $6,000.00 | Based on a bi-weekly salary rate of 3,000.00 for one developer |
| Testing Deployment | $0.51 | Based on Basic Azure services at $0.0507 per hour for 10 hours |
| Testing Labor | $1,000.00 | Based on a bi-weekly salary rate of 3,000.00 for one developer |
| Subtotal | $11,500.51 |  |
|  |  |  |
| **Deployment** |  |  |
| Server Fees | $36.51 | Per month based on Basic Azure services at $0.0507 per hour for 720 hours |
| Installation Labor | $500.00 | Based on a bi-weekly salary rate of 3,000.00 for one developer |
| Client Devices | $0.00 | Prices vary depending on devices. No devices needed for this deployment. |
| Subtotal | $536.51 |  |
|  |  |  |
| **Training** |  |  |
| Materials | $0.00 | Training material costs vary. There are no physical training materials for this project. |
| Training Labor | $0.00 | No training is planned for this project. |
| Travel | $0.00 | No travel is required for this project. |
| Subtotal | $0.00 |  |
|  |  |  |
| **Salary Deduction** | -$12,000.00 | Labor costs for development and deployment are waived by the developer. |
|  |  |  |
| **TOTAL** | **$37.02** |  |
|  |  |  |
| **Sustained Costs** |  |  |
| Server Fees | $36.51 | Per month based on Basic Azure services at $0.0507 per hour for 720 hours |
| Maintenance | $0.00 | Maintenance is free for the first year with longer contracts available. |
| Subtotal | $36.51 |  |

# Substantial Risk Areas

Unreachable Time Estimation: While every effort is made to not overextend developer capability during sprints, unforeseen circumstances can sometimes prevent the developer from reaching the agreed upon goals. Probability: Moderate. Risk: High. Mitigating Factors: Goals that cannot be reached during a sprint will be reevaluated, reassigned priority, and then put back into another sprint. Residual Risk: Moderate.

Changing Requirements: Requirements can change based on customer feedback or issues discovered during development. Probability: Low (normally high, but low here because there really isn’t a customer). Risk: Moderate. Mitigating Factors: Attention to detail during the design phase and a lack of customer feedback should result in little to no need for any changes to the requirements. Residual Risk: Low.

Inadequate Information in User Guide: User documentation cannot account for each individual user’s system. Users may experience difficulty with set-up and operation in some instances. Probability: Moderate. Risk: Low. Mitigating Factors: Feedback from initial users (the instructor in this case) will identify any discrepancies with the user documentation for correction. Residual Risk: Low.

# References

Microsoft. (n.d.). *Pricing Calculator*. Retrieved December 24, 2017, from Microsoft Azure: https://azure.microsoft.com/en-us/pricing/calculator/