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|  | Risk Assessment |
| 5/7/2013 | Graduate Capstone |

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# 1 Introduction

This document is used to be a resource of all Risks of the system and the details about them.

## 1.1 Intended Audience

This documented is intended for uses of a relatively high technical or business background.

## 1.2 References

* <http://www.cs.odu.edu/~cpi/411/orangs11/web/plans/Risk%20Management%20Plan.doc>
* <http://www.oceanleadership.org/wp-content/uploads/2009/04/OOI_CDR_RiskMgtPlan.pdf>
* <http://www.nd.gov/itd/files/services/pm/risk-management-plan-sample.pdf>
* <http://international.fhwa.dot.gov/riskassess/risk_hcm06_05.cfm>

## 1.3 Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Reason For Change | Version |
| Andy Bottom | 04/29/2013 | Started compiling the plan into the document | 0.1 |
| Andy Bottom | 05/06/2013 | Finished the final formatting of this document and also added additional risks. | 1.0 |

# 2 Risk Forms

Below is a list of the risks that are involved with this project. The risks are in no particular order besides the date that they were logged.

For more information about what the risks are, please see the Risk Management Plan document for more information about the risks.

## 2.1 Design Complexity

Information

|  |  |  |  |
| --- | --- | --- | --- |
| Risk ID | RISK-01 | | |
| Risk Name | Design Complexity | | |
| Category | TECHNICAL | | |
| Score |  | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 04/29/2013 |

|  |
| --- |
| Risk Summary |
| May cause the system to be hard to maintain and make improvements for future iterations |

Risk Specifics

|  |  |
| --- | --- |
| Likelihood | Remote |
| Impact | Moderate |
| Response | Mitigation |

|  |
| --- |
| Response Plan: |
| The plan is to document thoroughly the structure of the system. |

Risk Review

|  |  |
| --- | --- |
| Review Name | Andy Bottom |
| Date of Review | 04/29/2013 |
| Revised Impact | Mitigation |

|  |
| --- |
| Review Summary |
| The plan is to document thoroughly the structure of the system. |

## 2.2 Automation Work Load

Information

|  |  |  |  |
| --- | --- | --- | --- |
| Risk ID | RISK-02 | | |
| Risk Name | Automation Work Load | | |
| Category | OPERATIONAL | | |
| Score | MEDIUM-HIGH | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 05/04/2013 |

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| --- |
| Risk Summary |
| The amount of load on the automation server may cause it to be bogged down and show very long waits and slow response times. |

Risk Specifics

|  |  |
| --- | --- |
| Likelihood | 4 |
| Impact | 8 |
| Response | Mitigation |

|  |
| --- |
| Response Plan: |
| The plan to mitigate the risk is to either optimize the automation to be very fast. Or the more plausible plan is to add additional automation servers to split up the load per server and thus have faster responses. |

Risk Review

|  |  |  |  |
| --- | --- | --- | --- |
| Review Name |  | | |
| Date of Review |  | | |
| Revised Score |  | | |
| Revised Likelihood | | |  |
| Revised Impact | | |  |
| Revised Response | | |  |

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| Review Summary |
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## 2.3 Time Management

Information

|  |  |  |  |
| --- | --- | --- | --- |
| Risk ID | RISK-03 | | |
| Risk Name | Time Management | | |
| Category | SCHEDULE | | |
| Score | LOW-MEDIUM | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 04/06/2013 |

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| Risk Summary |
| Basically this is identifying that my schedule can get very busy a times with balancing internship work and family, so my time as a resource could be a potential risk. |

Risk Specifics

|  |  |
| --- | --- |
| Likelihood | 2 |
| Impact | 8 |
| Response | ACCEPTANCE |

|  |
| --- |
| Response Plan: |
| This is something that cannot be prevented, thus the only action is to accept that this may occur. To reduce the impact, working to keep ahead of schedule can help with the impact. |

Risk Review

|  |  |  |  |
| --- | --- | --- | --- |
| Review Name |  | | |
| Date of Review |  | | |
| Revised Score |  | | |
| Revised Likelihood | | |  |
| Revised Impact | | |  |
| Revised Response | | |  |

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| --- |
| Review Summary |
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## 2.4 Development Team Diversity

Information

|  |  |  |  |
| --- | --- | --- | --- |
| Risk ID | RISK-04 | | |
| Risk Name | Development Team Diversity | | |
| Category | OPERATIONAL | | |
| Score | 6 | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 05/07/2013 |

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| Risk Summary |
| Essential, this risk is identifying that since I am the only resource that is involved with this project, that it may be a risk that there is not other point of view or opinion involved with design choices. |

Risk Specifics

|  |  |
| --- | --- |
| Likelihood | 5 |
| Impact | 4 |
| Response | ACCEPTANCE |

|  |
| --- |
| Response Plan: |
| There is nothing that I can do about being the only one involved with the project. To lessen the impact, I will constantly run my ideas by with fellow classmates, co-workers, friends and professors to get outside opinion and advice involved with the project. |

Risk Review

|  |  |  |  |
| --- | --- | --- | --- |
| Review Name |  | | |
| Date of Review |  | | |
| Revised Score |  | | |
| Revised Likelihood | | |  |
| Revised Impact | | |  |
| Revised Response | | |  |

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| Review Summary |
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## 2.5 Code Readability

Information

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| --- | --- | --- | --- |
| Risk ID | RISK-05 | | |
| Risk Name | Code Readability | | |
| Category | TECHNICAL | | |
| Score | 7 | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 05/07/2013 |

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| Risk Summary |
| Essentially, there is always a risk involved with iterative development that the code can get very messy and hard to maintain |

Risk Specifics

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| --- | --- |
| Likelihood | 2 |
| Impact | 8 |
| Response | MITIGATE |

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| Response Plan: |
| I created a document specifying the code design specifications. Also, a need for the developers to have a discipline to keep code clean and add comments when necessary is vital. |

Risk Review

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| --- | --- | --- | --- |
| Review Name |  | | |
| Date of Review |  | | |
| Revised Score |  | | |
| Revised Likelihood | | |  |
| Revised Impact | | |  |
| Revised Response | | |  |

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| Review Summary |
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## 2.5 Late User Prototyping

Information

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| --- | --- | --- | --- |
| Risk ID | RISK-06 | | |
| Risk Name | Late User Prototyping | | |
| Category | ??? | | |
| Score | ??? | | |
| Risk Owner | | Andy Bottom |
| Date Submitted | | 08/02/2013 |

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| Risk Summary |
| Because I will be doing a bottom-up approach to the development, one of the major disadvantages is that the phone application, and the User Expereince aspect won’t be developed to the very end. This is a risk because I will have limited time to perform User Acceptance Testing and also may not have time to Clean up, fine-tune or fix small bugs on the phone side of things |

Risk Specifics

|  |  |
| --- | --- |
| Likelihood | 8 |
| Impact | 4 |
| Response | ACCEPTANCE |

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| Response Plan: |
| This is just the nature of the beast. Try to start some form of phone prototyping earlier so that integration on that end will be somewhat easier than starting from scratch late in the game. |

Risk Review

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| --- | --- | --- | --- |
| Review Name | Andy Bottom | | |
| Date of Review | 08/15/2013 | | |
| Revised Score |  | | |
| Revised Likelihood | | |  |
| Revised Impact | | |  |
| Revised Response | | |  |

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| Review Summary |
| As expected, this is what happened. I did start earlier on initial phone development. But did run out of time to tidy-up and make a very clean Phone UX. Something that will need to be improved upon. |

# 3 Risk Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Category | Likelihood | Impact | Response |
| RISK-01 | TECHNICAL | REMOTE | MODERATE | MITIGATE |
| RISK-02 | OPERATIONAL | 4 | 8 | MITIGATE |
| RISK-03 | SCHEDULE | 2 | 8 | ACCEPTANCE |
| RISK-04 | OPERATIONAL | 5 | 4 | ACCEPTANCE |
| RISK-05 | TECHNICAL | 2 | 8 | MITIGATE |
| RISK-06 | ?? | 4 | 2 | ACCEPTANCE |