**Risk Plan**

**for the**

**Hotspotter Bug Prediction Software**

**CS 425 / CS 499 Senior Project**

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**RISK-PLAN**

**Revision 1.0**

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**Change Log:**

|  |  |
| --- | --- |
| **Revision** | **Change Note(s)** |
| 1.0 | * Initial release |

# INTRODUCTION

This document is the risk plan for the Hotspotter Bug Prediction Software developed by Team HotSpotter.

Table I: Risk Analysis Chart

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No. | Risk Label | Description | Likelihood | Impact | Score | Mitigation Strategies |
| 1 | Software stack issues | The software stack does not provide proper functionality to implement system. Software interface may change over time. | 2 | 8 | 16 | Push scanning algorithm to external batch job. |
| 2 | Inefficient metrics | Some metrics may be a waste of time to research. | 4 | 3 | 12 | Eliminate poor metrics early. |
| 3 | Storing metadata in database | The repository must be pulled from the git url and translated into a portable format for database storage. | 6 | 1 | 6 | Establish standard translation early. |
| 4 | Graphics library problems | The graphic’s library used to display the repository visualization is inadequate or proves difficult to use. | 5 | 6 | 30 | Switch to different graphics library for next sprint. |
| 5 | Browser compatibility issues | The web interface breaks down in some browsers. | 2 | 2 | 4 | Use standard functions supported by required browsers. |
| 6 | Repository size | The Repository is so large it won’t completely fit in memory when running metrics analysis. | 3 | 2 | 6 | Build the scanner to be flexible and handle chunks of the repository. |
| 7 | New software | The software stack is new to most members on the team which may cause errors due lack of experience. | 9 | 5 | 45 | Design and teaching session with team members |
| 8 | No server | No server is available to test and deploy the system. | 1 | 5 | 5 | Test locally and build virtual machine for deployment |
| Note: Likelihood and Impact ratings are on a scale of 1 (Low) to 10 (High). The score is the product of the Likelihood and Impact. | | | | | | |