**Risk Assessment**

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| Project: | Inventory Management System |
| Description: | Create an application (inventory management system) for an end user to interact with via a command line interface. |
| Date Assessed: | 01-04-2020 |
| Assessed by: | Aswene Sivaraj |

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| Threat | Probability | | | Severity/Risk Level | | | Impact (Result if no action taken) | Source  (Where it could come from) | Proximity (When it could occur) | Solution (Action taken to overcome) | Expected Result |
| Low | Med | High | Low | Med | High |
| Time management |  | X |  |  |  | X | Not meeting deadlines, causing backlog and eventually delay in completion. | Poor planning.  Can start off on track but then fall behind. | Duration of project. | Create a plan with weekly checklists. | Project completed on-time or earlier. |
| Misunderstanding requirements | X |  |  |  |  | X | Objectives not met may result in redoing the project or failing. | Not reading the requirements properly. | Early stages, beginning of the project when objectives are stated. | Clarify requirements if not understood. | Project completed to the given requirements. |
| Inadequate skills and knowledge |  | X |  |  | X |  | Project completed incorrectly or project incomplete. | Insufficient practice on programming language.  Mediocre knowledge of technologies to be used. | Primarily in the early stages but may occur at any stage throughout the project. | Enhance skills through additional practice.  Improve knowledge through further research. | Improved skills and knowledge to be able to |
| Hardware unavailability | X |  |  |  | X |  | Fall behind deadlines.  Unable to complete project. | Faulty or damaged laptop/computer. | Unknown. | Keep another device as back up. Safeguard device. | Project unaffected by hardware problems. |
| Access to online platforms | X |  |  | X |  |  | Build-up of work to do.  Increase workload causing overworking. | Low quality internet connection. | Unknown.  Unpredictable. | Reduce internet usage of other devices.  Keep some mobile data as back up to use. | If connection fails, project timeline remains unaffected. |
| Design flaws |  | X |  |  | X |  | Relationship and access between data tables incorrectly defined. | Errors in entity relationship diagram (ERD).  Relationships between entities incorrectly defined. | During the creation of the ERD. | Additional research.  Consult to confirm understanding. | Less chance of oversights in the database. |
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