

RISK MANAGEMENT PLAN

Project Title: Artibot

Date Prepared: 27.09.18

Methods and Approaches:

Risk Analysis

Tools and Techniques:

- Risk Analysis Matrix
- Characteristics: Probability, Severity and Impact.
 - The Impact describes the level of risk and is calculated in the matrix by $\text{Probability} * \text{Severity}$.

Risk Categories:

- Human factors
- Business
- Technology

#	Risk	Description	P	S	I	Mitigation	Action to take
01	Computer crashing	Likelihood of any computer we use crashing	1	5	5	Work on more than a single computer	Computer needs to be repaired immediately, and we need to continue to work on another computer
02	Testing environment	No environment to perform the testing	3	4	12	Apply room as early as possible	Rent a commercial rental room
03	Data loss	If the project documents gets deleted or corrupted	1	5	5	Backup of all documentation in either Google Drive, Local hard drive, etc.	All documentation must be rewritten as fast as possible
04	Absence	Absence of a team member	5	2	10	Make sure that we are not too dependent of a team member	Notify the other team members and divide the tasks
05	Lack of knowledge	Team member lacks technical knowledge to implement a system	4	2	8	Make a plan on which materials we need to learn beforehand	Ask other students/teachers and start learning the insufficient knowledge from the internet
06	Global standard	The car provided by the school might not follow the global standard	3	4	12	Buy components that is following the same certain standard	Buy interface to adapt to the predefined standard
07	Poor requirements	Stakeholder or system requirements might change	3	3	9	Apply Scrum methodology to be agile	Refine the product backlog and add the new requirements
08	Computer compatibility	Software do not support the computer you use	2	3	6	Read the system requirements of the software	Find a new computer that supports the software
09	Budget	The project's cost exceeding the budget given by the investors	4	2	8	Create a good budget plan and make sufficient research of components	Negotiate for a higher budget
10	Group dynamic	Disagreement within the group regarding project and poor working environment	5	4	20	Have a transparent environment and active communication	Scrum master call an additional meeting to resolve issue

Table 1: Lists of risks

P. = Probability, S. = Severity, I. = Impact

Impact	Risk
1 - 3	Minor risk
4 - 7	Low risk
8 - 12	Moderate risk
13 - 18	High risk
19 - 25	Extremely high risk

Table 2: Risk categories

		Probability				
		1	2	3	4	5
Severity	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5

Table 3: Risk matrix