Software Project Management Course

Exercise week 2

Define risks, their effect levels and plans to resolve the risks for the final project:

"The application for monitoring children who are under 5 years old"

Student: Nguyễn Anh Quốc _ Student ID: 18110345

Table 1:

Risk	Affects	Description
New better algorithms or resolutions	Project	While the project is being implemented, there is an new algorithm or resolution which is better than used algorithms (resolutions).
Meet with difficultes about algorithms while implementing the project.	Project and Product	Because members of the team are students, so applying algorithms can be difficult, especially with AI algorithms.
The time for collecting data that is used to train the application is long.	Project	Data set must be large so it is time-consuming to get data.
Lacking of experts who will train for developers	Project and product	AI applications are new and difficult, so we need experts to train developers. If don't find experts, developers can work slowly and inefficiently.
Not solidarity in the team	Project and product	While working, several members are not united, this makes project overdue.

Members' different levels	Project	Members are students, so their levels are different. If assigning tasks as equal, it can make the project overdue.
Members stop studying before the project finished	Project and product	Any member stops studying. It makes the task not complete.
Requirements changes	Project and product	The client requires to add new functions while the project is implementing.
The poor accurarcy	Product	The accuracy of AI algorithms is different with different enviroments, so it can be poor.

Table 2:

Risk	**Probability**	**Effect**
New better algorithms or resolutions	Very low	Insignificant
Meet with difficultes about algorithms while implementing the project.	High	Catastrophic
The time for collecting data that is used to train the application is long.	Moderate	Tolerable
Lacking of experts who will train for developers	Moderate	Serious
Not solidarity in the team	Morderate	Catastrophic
Members' different levels	Very high	Tolerable
The budget is reduced	Low	Tolerable
Members stop studying before the project finished	Very low	Catastrophic
Requirements changes	Low	Tolerable
The poor accurarcy	Low	Tolerable

Table 3:

Risk	Strategy
New better algorithms or resolutions	Still continue to work with the used algorithms; concurrently, research the new algorithm. If the current algorithm still satifies client's requirements, we will use it; if not, change to the new algorithm.
Meet with difficultes about algorithms while implementing the project.	Research from specialists' document and similar projects. Specially, contact the teacher to find helps.
The time for collecting data that is used to train the application is long.	Alert customer to potential difficuties in collecting approriate data and probability of delays; concurrently, promote this process.
Lacking of experts who will train for developers	Contact with manager for help; connect with lecturers in university.
Not solidarity in the team	Firstly, need to find problems occurring among team member. Then finding solutions, gathering the team members to discuss and resolve the problems.
Members' different levels	In this case, have to assign tasks by their abilities. In working process, encourage members to helps together.
Members stop studying before the project finished.	The other members must overlap the uncompleted tasks.
Requirements changes	Reevaluate the project, including: price, time, complexity, … and inform client about the information.
The poor accurarcy	Collecting more data for an particular enviroment and train again; or practice additional approachs to improve the accuracy.