Risk management is an important part of every project. If one does not consider possible problems, it becomes harder to deal with them when they appear. It can even fail the whole project.

In this particular case the main problems considered were estimation and communication. It is easy to say everyone gets along well, but that does not mean those people can work in a group. In a project of high importance it is easy for opinions to go in different directions and arguments to arise.

Also, for a newly formed group time management may become a huge obstacle. Without prior experience it is hard to say what problems will take most time and how much exactly. This then can push people off the designed schedule and leave the project half way finished by the deadline.

To prevent these things from happening, the risk analysis table was made. Possible problems were given points for how likely they were to arise and how much they would affect the project. After that they were prioritised by total number and ideas for solving them were created.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk | Probability (1-6) | Severity (1-6) | Total | Handling |
| Scope is ill defined | 5 | 6 | 30 | Extra interviews |
| Estimates are inaccurate | 5 | 5 | 25 | Have a second, pessimistic schedule and use that |
| Time management (gold plating inflates scope) | 4 | 6 | 24 | Stick to predefined time scope |
| Under communication | 4 | 5 | 20 | Constant repetition of most important facts |
| Requirements are incomplete | 4 | 4 | 16 | Continued communication with the customer |
| Poor coordination (jobs, extra projects) | 4 | 4 | 16 | Scheduled meetings |
| Lack of Management or Control | 3 | 4 | 12 | Stick to the plan |
| Requirement changes | 3 | 4 | 12 | Work in iterations/sprints |
| Number of users | 3 | 3 | 9 | Proof-of-concept |
| Users Reject the Prototype | 2 | 4 | 8 | Renew the design |
| Dropping out | 1 | 4 | 4 | Reduce the scope of the project |

Most of these issues were averted by prior knowledge about them. Those few that could not be avoided were solved using the provided ideas and others that were devised on the spot.

However, a lot of technical problems were not mentioned in the risks analysis. That was done on purpose for Unified Process (UP) is applied. By use of mock-ups and diagrams for most complex use cases it prevents a lot of issues from arising. Some of which are failing to understand customer needs or the software architecture to be used.