**Personal events**

Personal affairs can differ from person to person inside the group, taking into consideration the fact that the group consists of ten members, which leads to a very high probability of personal events emerging as a problem. Job calls, extracurricular activities, travelling and a lot of other factors can interrupt or delay a meeting or an assigned task. Eight out of ten members are not from Denmark, thus, the workflow of the team can slow down during the holiday periods, as a direct aftereffect of travelling. Exams, family and spouses also have a high chance of delaying the work on the project.

**Solution:**

As a precaution, work will begin earlier than as planned on the time-schedule, in order to mitigate any complications, as the likelihood of the above mentioned risk to happen is extremely high. In the case that a group member cannot fulfil one of his tasks on time, and that interferes with the workflow, that task will be split amongst others as to not keep the project behind.

**Lack of Constant Verification**

The lack of regular endorsement and check-ups from the supervisors, and also the struggle to always find them available, it will easily make the team feel more hesitant and unsure about certain aspects and specifications of the project, which can lead to delays in the workflow of the team. There is also a probability that the team won’t understand correctly the feedback and indications from the supervisors, which can lead to frustration and resentment.

**Solution:**

If a certain task or an exception is considered a set-back for the project, that certain problem is put aside, and an attempt to replace that feature with a simpler implementation is made, and the workflow will be moved to another task until a proper solution for the problem is found.

**Time Schedule**

A time schedule has the main purpose of improving the work of any group. The problem is when a wrong time schedule is put to use, which creates the possibility that work on the project will be delayed too much, which can lead to consequences such as missing a deadline. There is also a chance that, even if the group has the perfect time schedule, they might not follow it accordingly, which, once again, can lead to postponement. It is of great importance that the time schedule is checked-up constantly, so that the team knows if they have enough time to finish what they decided to do regarding the project.

**Solution:**

The group should sallow their pride and accept that cuts to the requirements shall be done and all low priority system features shall be removed.

The following table has also been created to showcase different risks, their likelihood to emerge, their severity, and some ways to prevent and fix the problems in case they appear.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Risk | Description | Likelihood (Scale 1-10) | Severity (Scale 1-10) | Product of likelihood and severity | Risk mitigation | Identifiers | Responsible |
| 1 | Delay | 4 | 5 | 10 | Check schedule regularly, make sure the time is enough | Missing the  deadlines for the scrum sprints | Remedios |
| 2 | Illness | 2 | 4 | 4 | Make sure both physical and mental condition are favorable | Missing meetings and slowing the development of the project | Christian |
| 3 | Lack of necessary professional knowledge | 4 | 3 | 6 | Search online for information or seek help from the supervisors. | Facing difficulties when designing and implementing the project. | Ionel |
| 4 | Failure of hardware | 2 | 5 | 5 | Proper using and well maintaining of the equipment | Faulty sensors,boards etc. | Kenneth |
| 5 | Loss of information | 2 | 5 | 5 | Use clouding services such as GitHub and Google Drive to store all project work | Missing information, code, documents, etc.. | Mihai |
| 6 | Failure of Database | 2 | 4 | 4 | Use of backup for databases | Unable to retrieve or load information from the database | Josipa |
| 7 | Synchronization between teams | 4 | 5 | 10 | Constant communication between groups | The project development is slowed | Erika |
| 8 | Group member not participating or not commited | 6 | 6 | 6 | Give warnings in case of such events | The project development is slowed, the team is de-motivated | Angel |