HW1 Software Engineering

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reason | Reason Why Software Fails | What Can be Done to Prevent it | Source of Listed Reason | Name of Team Member who Contributed |
| 1 | Unaligned Expectations | Check-ups, reassurance, thorough communication are some things that can be done to help prevent this possibility. | https://www.youtube.com/watch?v=CTHHiBNXJ6w | Trevor Paige |
| 2 | Team Conflict | Establishing groundwork, establishing trust with others in the group, communication, listening to all ideas, forming a leadership group. These are things that can help prevent a team conflict. However, these are not all foolproof methods. | https://www.youtube.com/watch?v=CTHHiBNXJ6w | Trevor Paige |
| 3 | Switching Priorities | Keeping engaged with the task at hand, forming a leadership group can work for this as well, finish one step before starting another step, communication with all of the teams and branches, and also budget management. These are some things that can help to prevent switching priorities. | https://www.youtube.com/watch?v=CTHHiBNXJ6w | Trevor Paige |
| 4 | Over Ambition | Focusing on key features and important goals rather than new features added at the last minute. Realistic goals will be easier to finish in time. | https://www.standishgroup.com/sample\_research\_files/BigBangBoom.pdf | Ethan Henson |
| 5 | Lack of Motivation | Providing inspiration and providing good helpful feedback to the team will help motivate them. It is also important to listen to feedback given so ensure that everything is smooth and no major conflicts are rising up slowing down production. | https://www.standishgroup.com/sample\_research\_files/BigBangBoom.pdf | Ethan Henson |
| 6 | Badly defined System requirements | Thorough communication between the company and customer about the needs of the system requirements and the compromise that can realistically happen. | <http://spectrum.ieee.org/computing/software/why-software-fails> | Triston Mobley |
| 7 | Poor reporting on project status | Plan ahead to schedule more detail and informative reports as well as allocating more resources to ensure proper reporting is being done. | <http://spectrum.ieee.org/computing/software/why-software-fails> | Triston Mobley |
| 8 | Cutting Costs | Ensure that all parties involved understand that software projects are investments and not just pure costs, rid the expectation that IT departments can do more work with less compensation and in little time. Establish a mutual understanding of realistic working conditions. | <https://spectrum.ieee.org/why-software-fails> | Eman Nawaz |
| 9 | Loss of Quality Upper Management | Make sure there are smooth transitions of knowledge and understanding of project goals when new management roles are fulfilled. Maintain constant work values to avoid unforeseen changes in workflow. | <http://www.cs.umd.edu/projects/SoftEng/ESEG/papers/83.88.pdf> | Eman Nawaz |
| 10 | Lack of Funding | Make sure the project is fully funded before starting. Make sure there are avenues open for additional funding. Stay within means to not go above funding. | <http://www.cs.umd.edu/projects/SoftEng/ESEG/papers/83.88.pdf> | Trevor Paige |