



BHARATIYA VIDYA BHAVANS
SARDAR PATEL INSTITUTE OF TECHNOLOGY
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai

Experiment 9

Group Members:

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Project Title: Resort Property Management System

Aim: To perform risk management using ProjectManager tool

Risk:

"Tomorrow problems are today's risk." Hence, a clear definition of a "risk" is a problem that could cause some loss or threaten the progress of the project, but which has not happened yet. These potential issues might harm cost, schedule or technical success of the project and the quality of our software device, or project team morale.

Risk Management:

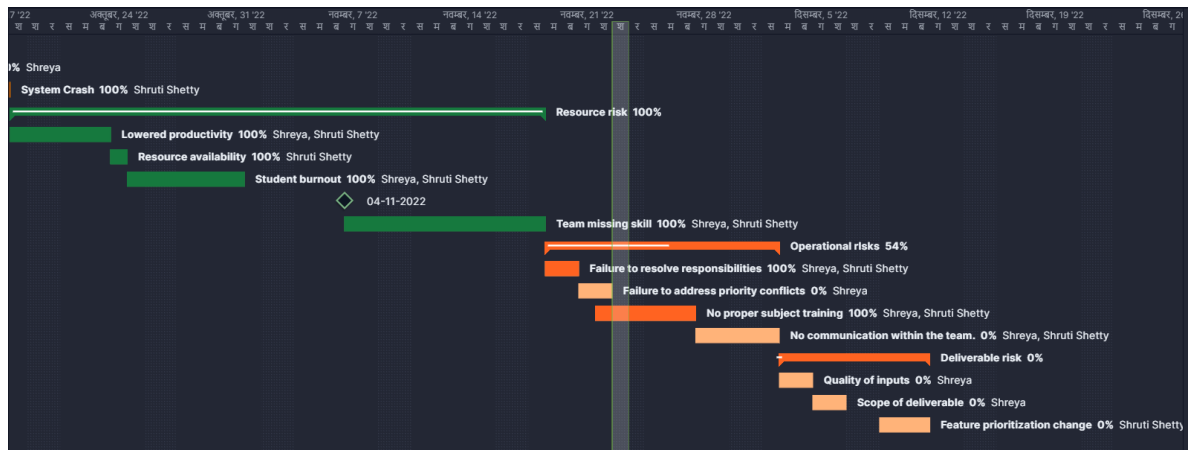
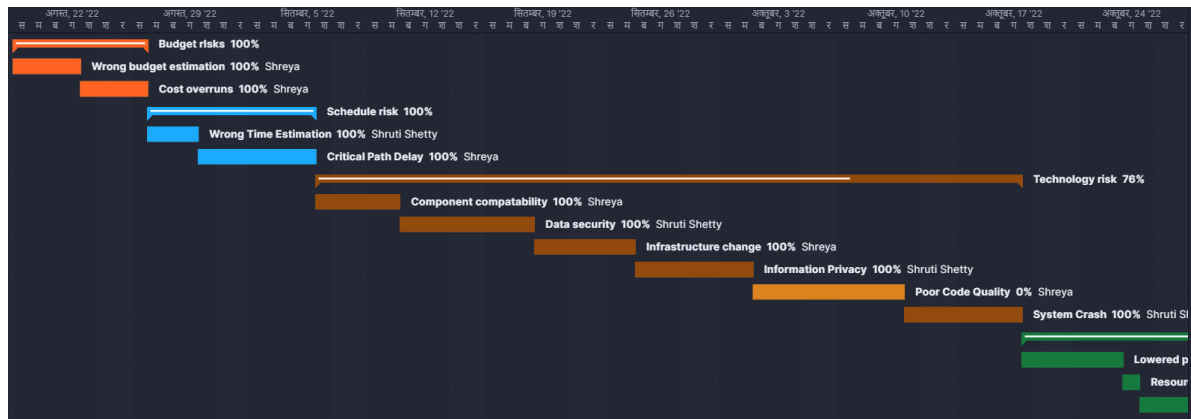
In project management, risk management is the practice of identifying, evaluating, and preventing or mitigating risks to a project that have the potential to impact the desired outcomes. Project managers are typically responsible for overseeing the risk management process throughout the duration of a given project.

To effectively manage risk, project managers must have a clear understanding of their objectives so they can identify any possible barriers that could impact the team's ability to produce results.

Gantt Chart - Created using Project Manager for Risk Management Plans:

| ALL | TASK NAME | DURATION | PLANNED START DATE | PLANNED FINISH DATE | ASSIGNED | PRIORITY | COMPLETE | STATUS | AREAS OF IMPACT | IMPACT | RISK ID | PROBABILITY |
|-----|--------------------------|----------|--------------------|---------------------|------------------|-----------|-------------|--------------------|----------------------|--------|---------|-------------|
| 1 | Budget risks | 6 days | 22-08-2022 | 29-08-2022 | | | <div></div> | Closed | | | | |
| 2 | Wrong budget estim... | 4 days | 22-08-2022 | 25-08-2022 | Shreya | Medium | <div></div> | Closed | Budget,Quality | Medium | PM-015 | Low |
| 3 | Cost overruns | 2 days | 26-08-2022 | 29-08-2022 | Shreya | Very Low | <div></div> | Closed | Budget,Quality | Low | PM-016 | Low |
| 4 | Schedule risk | 8 days | 30-08-2022 | 08-09-2022 | | | <div></div> | Identify the Risk | | | | |
| 5 | Wrong Time Estimat... | 3 days | 30-08-2022 | 01-09-2022 | Shruti Shetty | Low | <div></div> | Closed | Schedule | Medium | PM-002 | Medium |
| 6 | Critical Path Delay | 5 days | 02-09-2022 | 08-09-2022 | Shreya | Medium | <div></div> | Mitigate the Risk | Schedule | Medium | PM-003 | Medium |
| 7 | Technology risk | 30 days | 09-09-2022 | 20-10-2022 | | | <div></div> | Identify the Risk | | | | |
| 8 | Component compat... | 3 days | 09-09-2022 | 13-09-2022 | Shreya | High | <div></div> | Closed | Resources,Quality | High | PM-005 | Low |
| 9 | Data security | 6 days | 14-09-2022 | 21-09-2022 | Shruti Shetty | Very High | <div></div> | Mitigate the Risk | Quality | High | PM-007 | Medium |
| 10 | Infrastructure change | 4 days | 22-09-2022 | 27-09-2022 | Shreya | Low | <div></div> | Analyze the Risk | Budget,Schedule,Scop | Medium | PM-006 | Low |
| 11 | Information Privacy | 5 days | 28-09-2022 | 04-10-2022 | Shruti Shetty | High | <div></div> | Mitigate the Risk | Quality | Medium | PM-008 | Low |
| 12 | Poor Code Quality | 7 days | 05-10-2022 | 13-10-2022 | Shreya | Medium | <div></div> | Monitor the Risk | Quality | Low | PM-004 | High |
| 13 | System Crash | 5 days | 14-10-2022 | 20-10-2022 | Shruti Shetty | High | <div></div> | Mitigate the Risk | Budget,Quality,Sched | High | PM-009 | Medium |
| 14 | Resource risk | 22 days | 21-10-2022 | 21-11-2022 | | | <div></div> | Plan Risk Response | | | | |
| 15 | Lowered productivity | 4 days | 21-10-2022 | 26-10-2022 | Shreya,Shruti SI | Medium | <div></div> | Analyze the Risk | Resources,Schedule | Low | PM-013 | Medium |
| 16 | Resource availability | 1 day | 27-10-2022 | 27-10-2022 | Shruti Shetty | Low | <div></div> | Plan Risk Response | Resources,Schedule | High | PM-012 | Medium |
| 17 | Student burnout | 5 days | 28-10-2022 | 03-11-2022 | Shreya,Shruti SI | Medium | <div></div> | Identify the Risk | Quality,Schedule | Medium | PM-014 | High |
| 18 | Delay in receiving re... | 4 days | 04-11-2022 | 09-11-2022 | Shreya | Low | <div></div> | Closed | Resources,Schedule | Low | PM-010 | Medium |
| 19 | Team missing skill | 8 days | 10-11-2022 | 21-11-2022 | Shreya,Shruti SI | High | <div></div> | Mitigate the Risk | Resources,Quality | High | PM-011 | Medium |

| ALL | TASK NAME | DURATION | PLANNED START DATE | PLANNED FINISH DATE | ASSIGNED | PRIORITY | COMPLETE | STATUS | AREAS OF IMPACT | IMPACT | RISK ID | PROBABILITY |
|-----|--------------------------|----------|--------------------|---------------------|------------------|----------|-------------|--------------------|-----------------------|--------|---------|-------------|
| 20 | Operational risks | 10 days | 22-11-2022 | 05-12-2022 | | | <div></div> | Mitigate the Risk | | | | |
| 21 | Failure to resolve re... | 2 days | 22-11-2022 | 23-11-2022 | Shreya,Shruti SI | Medium | <div></div> | Monitor the Risk | Budget,Quality | Medium | PM-017 | Low |
| 22 | Failure to address p... | 2 days | 24-11-2022 | 25-11-2022 | Shreya | Low | <div></div> | Monitor the Risk | Scope | Medium | PM-019 | Low |
| 23 | No proper subject tr... | 4 days | 25-11-2022 | 30-11-2022 | Shreya,Shruti SI | Medium | <div></div> | Monitor the Risk | Quality,Schedule,Scop | High | PM-018 | Low |
| 24 | No communication ... | 3 days | 01-12-2022 | 05-12-2022 | Shreya,Shruti SI | Low | <div></div> | Plan Risk Response | Schedule,Scope | Medium | PM-020 | Low |
| 25 | Deliverable risk | 7 days | 06-12-2022 | 14-12-2022 | | | <div></div> | Mitigate the Risk | | | | |
| 26 | Quality of inputs | 2 days | 06-12-2022 | 07-12-2022 | Shreya | Medium | <div></div> | Plan Risk Response | Quality | Low | PM-022 | Low |
| 27 | Scope of deliverable | 2 days | 08-12-2022 | 09-12-2022 | Shreya | Medium | <div></div> | Plan Risk Response | Scope | Medium | PM-021 | Low |
| 28 | Feature prioritizatio... | 3 days | 12-12-2022 | 14-12-2022 | Shruti Shetty | Medium | <div></div> | Plan Risk Response | Quality,Scope | Medium | PM-023 | Medium |

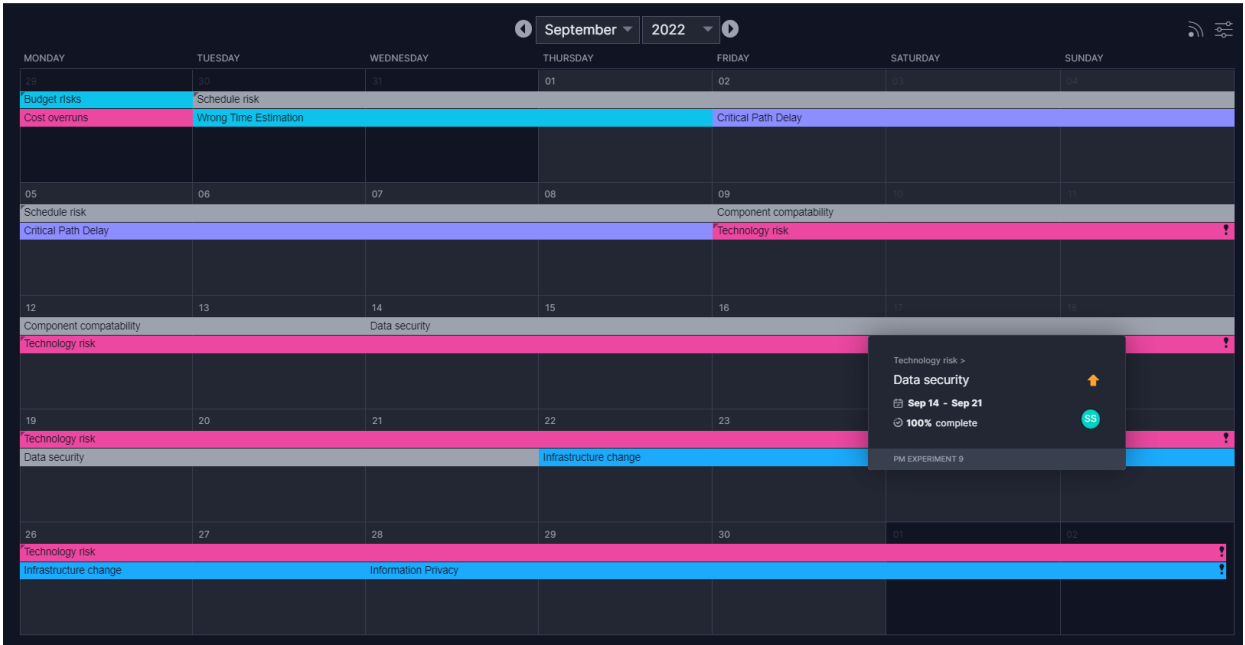
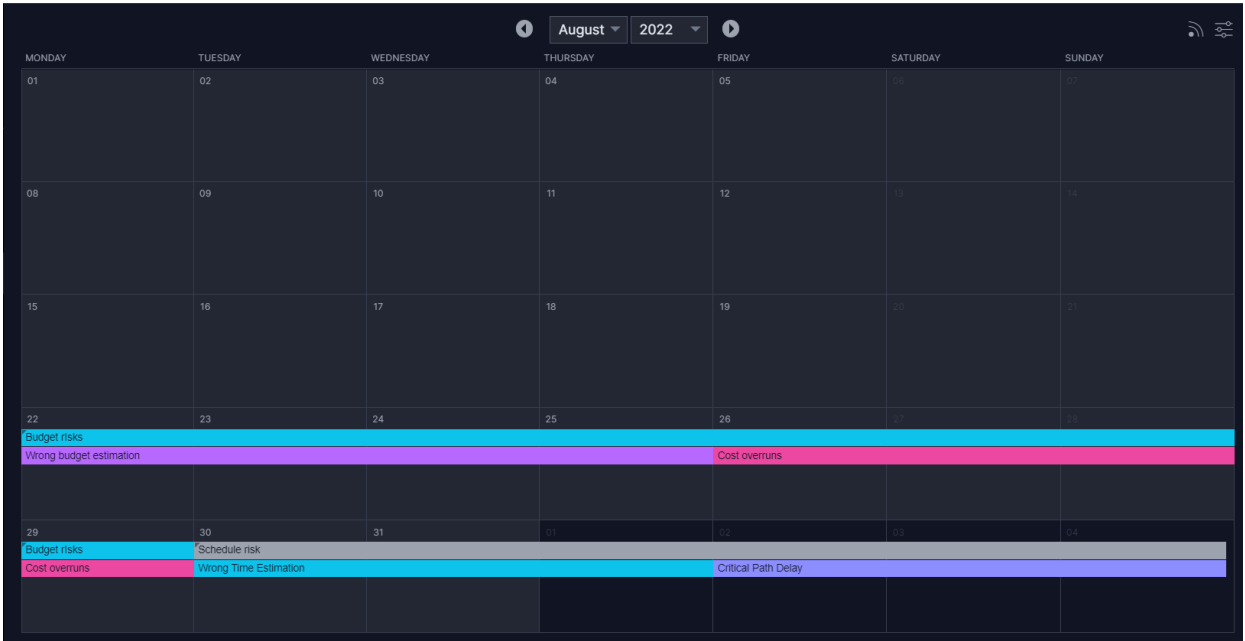


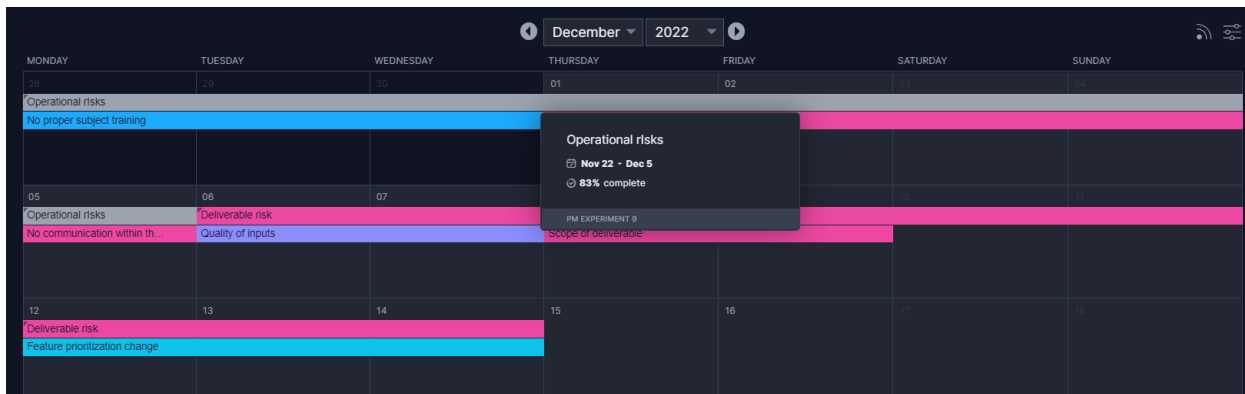
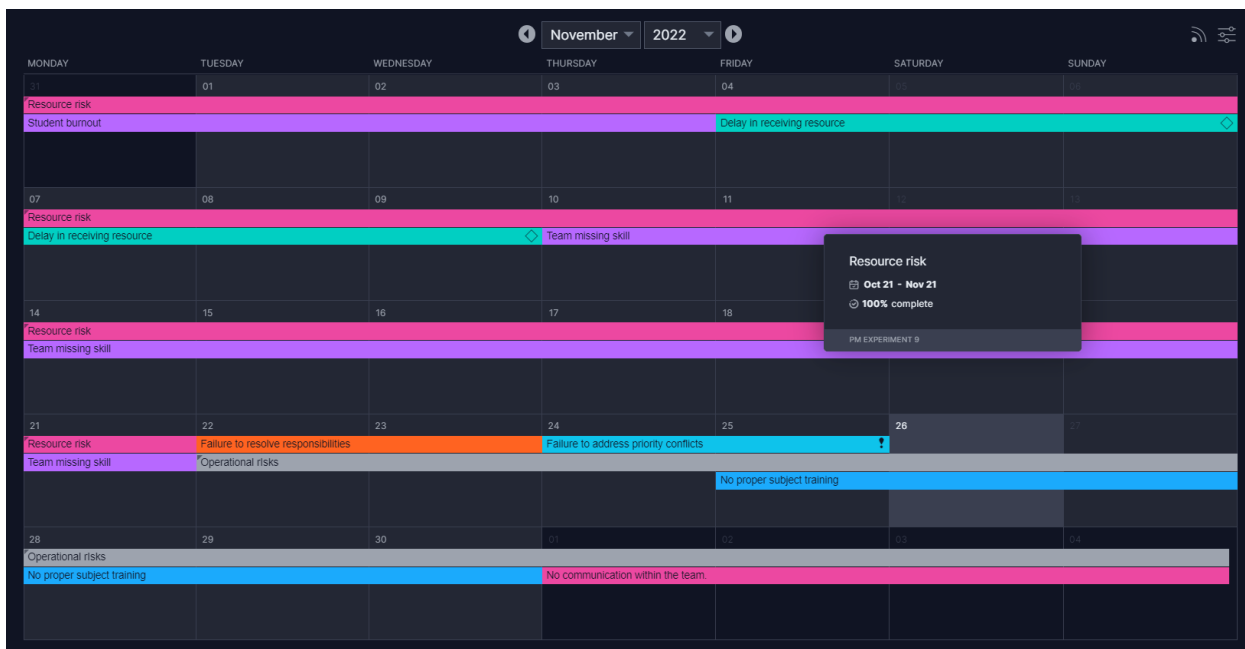
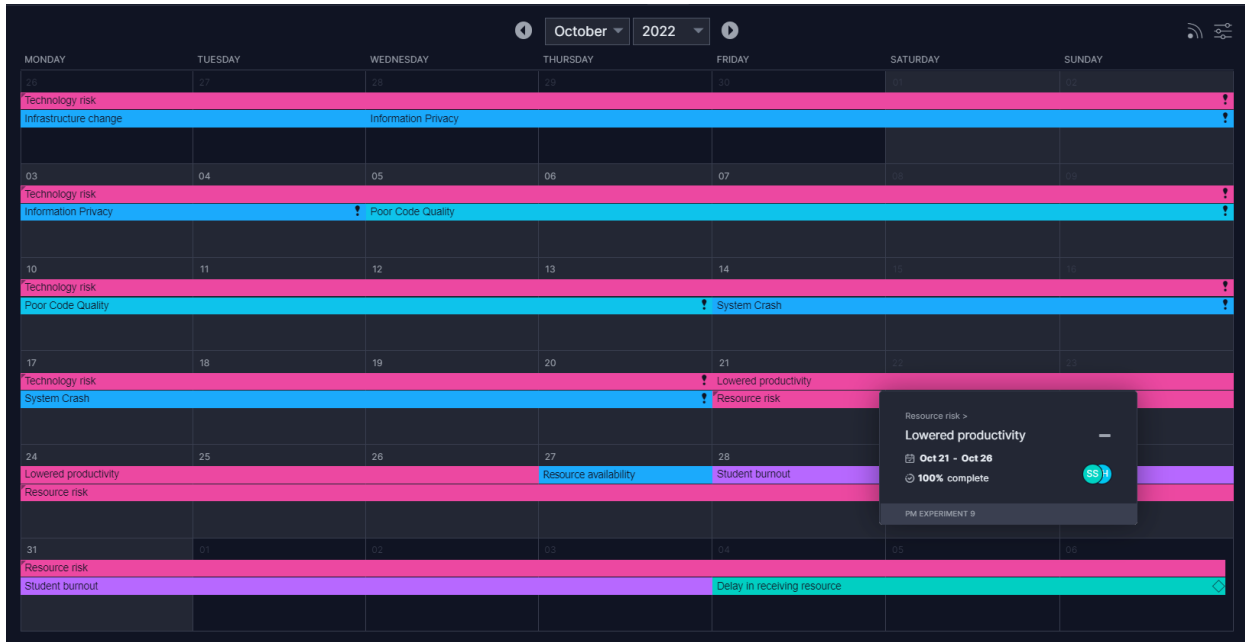
Board - Managing & Prioritizing Risks:

| Identify the Risk | Analyze the Risk | Plan Risk Response |
|--|--|---|
| <input type="checkbox"/> Technology risk 76% <div>Resource risk ></div> <input checked="" type="checkbox"/> Student burnout 100% <input checked="" type="checkbox"/> Schedule risk 100% <div>Add a Task</div> | <div>Technology risk ></div> <input checked="" type="checkbox"/> Infrastructure change 100% <div>Resource risk ></div> <input checked="" type="checkbox"/> Lowered productivity 100% <div>Add a Task</div> | <div>Resource risk ></div> <input checked="" type="checkbox"/> Resource availability 100% <div>Deliverable risk ></div> <input type="checkbox"/> Quality of inputs — <div>Deliverable risk ></div> <input type="checkbox"/> Scope of deliverable — <div>Deliverable risk ></div> <input type="checkbox"/> Feature prioritization change — <div>Operational risks ></div> <input type="checkbox"/> No communication within the team. — <input checked="" type="checkbox"/> Resource risk 100% <div>Add a Task</div> |

| Monitor the Risk | Mitigate the Risk | Closed |
|--|---|--|
| <div>Operational risks ></div> <input checked="" type="checkbox"/> Failure to resolve responsibilities 100% <div>Technology risk ></div> <input type="checkbox"/> Poor Code Quality — <div>Operational risks ></div> <input type="checkbox"/> Failure to address priority conflicts — <div>Operational risks ></div> <input checked="" type="checkbox"/> No proper subject training 100% <div>Add a Task</div> | <div>Schedule risk ></div> <input checked="" type="checkbox"/> Critical Path Delay 100% <div>Technology risk ></div> <input checked="" type="checkbox"/> Data security 100% <div>Resource risk ></div> <input checked="" type="checkbox"/> Team missing skill 100% <div>Technology risk ></div> <input checked="" type="checkbox"/> System Crash 100% <div>Technology risk ></div> <input checked="" type="checkbox"/> Information Privacy 100% <input type="checkbox"/> Operational risks 54% <input type="checkbox"/> Deliverable risk — <div>Add a Task</div> | <div>Technology risk ></div> <input checked="" type="checkbox"/> Component compatability 100% <div>Resource risk ></div> <input checked="" type="checkbox"/> Delay in receiving resource 100% <input checked="" type="checkbox"/> Budget risks 100% <div>Schedule risk ></div> <input checked="" type="checkbox"/> Wrong Time Estimation 100% <div>Budget risks ></div> <input checked="" type="checkbox"/> Wrong budget estimation 100% <div>Budget risks ></div> <input checked="" type="checkbox"/> Cost overruns 100% <div>Add a Task</div> |

Calendar:





Dashboard - Displays live data using graphs and charts:



List:

| DONE | TASK NAME | ASSIGNED TO | STATUS | PROGRESS | PRIORITY | DUE | | |
|-------------------------------------|-------------------------------|-------------|-----------------|----------|-----------|--------|--|--|
| <input type="checkbox"/> | Technology risk | | Identify the... | 76% | | Oct 20 | | |
| <input checked="" type="checkbox"/> | Component-compatibility | SH | Closed | 100% | High | Sep 13 | | |
| <input checked="" type="checkbox"/> | Infrastructure-change | SH | Analyze the... | 100% | Low | Sep 27 | | |
| <input checked="" type="checkbox"/> | System-Crash | SS | Mitigate th... | 100% | High | Oct 20 | | |
| <input checked="" type="checkbox"/> | Resource-risk | | Plan Risk R... | 100% | | Nov 21 | | |
| <input checked="" type="checkbox"/> | Delay-in-receiving-resource | SH | Closed | 100% | Low | Nov 9 | | |
| <input checked="" type="checkbox"/> | Team-missing-skill | SS | Mitigate th... | 100% | High | Nov 21 | | |
| <input checked="" type="checkbox"/> | Resource-availability | SS | Plan Risk R... | 100% | Low | Oct 27 | | |
| <input type="checkbox"/> | Deliverable risk | | Mitigate th... | 0% | | Dec 14 | | |
| <input type="checkbox"/> | Quality of inputs | SH | Plan Risk R... | 0% | Medium | Dec 7 | | |
| <input type="checkbox"/> | Scope of deliverable | SH | Plan Risk R... | 0% | Medium | Dec 9 | | |
| <input type="checkbox"/> | Feature prioritization change | SS | Plan Risk R... | 0% | Medium | Dec 14 | | |
| <input checked="" type="checkbox"/> | Data-security | SS | Mitigate th... | 100% | Very High | Sep 21 | | |
| <input checked="" type="checkbox"/> | Information-Privacy | SS | Mitigate th... | 100% | High | Oct 4 | | |

| DONE | TASK NAME | ASSIGNED TO | STATUS | PROGRESS | PRIORITY | DUE | | |
|-------------------------------------|---------------------------------------|-------------|-----------------|----------|------------|-----------|--|--|
| <input checked="" type="checkbox"/> | Information-Privacy | SS | Mitigate th... | 100% | ▲ High | Oct 4 | | |
| <input type="checkbox"/> | Poor Code Quality | SH | Monitor the... | 0% | — Medium | Oct 13 | | |
| <input checked="" type="checkbox"/> | Budget-risks | | Closed | 100% | | Aug 29 | | |
| <input checked="" type="checkbox"/> | Wrong-budget-estimation | SH | Closed | 100% | — Medium | Aug 25 | | |
| <input checked="" type="checkbox"/> | Cost-overruns | SH | Closed | 100% | ⬇ Very Low | Aug 29 | | |
| <input checked="" type="checkbox"/> | Lowered-productivity | SS | Analyze the... | 100% | — Medium | Oct 26 | | |
| <input checked="" type="checkbox"/> | Student-burnout | SS | Identify the... | 100% | — Medium | Nov 3 | | |
| <input type="checkbox"/> | Operational risks | | Mitigate th... | 54% | | Dec 5 | | |
| <input type="checkbox"/> | Failure to address priority conflicts | SH | Monitor the... | 0% | ▼ Low | Yesterday | | |
| <input checked="" type="checkbox"/> | No-proper-subject-training | SS | Monitor the... | 100% | — Medium | Nov 30 | | |
| <input type="checkbox"/> | No communication within the team. | SS | Plan Risk R... | 0% | ▼ Low | Dec 5 | | |
| <input checked="" type="checkbox"/> | Failure-to-resolve-responsibilities | SS | Monitor the... | 100% | — Medium | Nov 23 | | |
| <input checked="" type="checkbox"/> | Schedule-risk | | Identify the... | 100% | | Sep 8 | | |
| <input checked="" type="checkbox"/> | Critical-Path-Delay | SH | Mitigate th... | 100% | — Medium | Sep 8 | | |
| <input checked="" type="checkbox"/> | Wrong-Time-Estimation | SS | Closed | 100% | ▼ Low | Sep 1 | | |

Conclusion:

In this experiment a risk management plan was created for resort property management using a project manager. It was visualized and displayed in the form of gantt chart, graphs, charts and dashboard.

References:

- <https://www.projectmanager.com/blog/risk-management-process-steps>
- <https://www.northeastern.edu/graduate/blog/project-risk-management>
- <https://www.javatpoint.com/software-engineering-risk-management>
- <https://www.softwaretestinghelp.com/types-of-risks-in-software-projects>