

Nabu

Risk Management

1. Risks

ID	Topic	Description	Consequence
1	Authentication Data Integrity	User credentials could be stored or transmitted insecurely, leading to unauthorized access.	Data breaches, loss of user trust, and legal consequences (GDPR violations).
2	Server Downtime	Server or hosting environment becomes unavailable due to crashes or maintenance failures.	Application unavailable, loss of productivity, potential data loss.
3	Data Loss or Corruption	Improper database handling or failed backups may lead to permanent data loss.	Loss of important user or system data, costly recovery operations.
4	Security Vulnerabilities	Exploits such as SQL injection, XSS, or insecure APIs remain unpatched.	System compromise, unauthorized data access, damaged reputation.
5	Version Control Conflicts	Multiple developers merge conflicting changes in Git without review.	Broken features, lost code, and unstable releases.
6	Dependency or Library Failure	External libraries or APIs become outdated, insecure, or unavailable.	System malfunction or blocked deployments.
7	Insufficient Testing	Missing unit or integration tests allow bugs into production.	System instability, user frustration, increased maintenance cost.
8	Project Time Overrun	Delays in development due to underestimated workload or unclear requirements.	Missed deadlines, reduced quality, or incomplete features.
9	Compliance & Privacy Risk	Failure to meet GDPR or other legal data protection requirements.	Legal penalties, loss of credibility, and forced project changes.
10	Team Communication Issues	Unclear responsibilities or poor communication in the team.	Redundant work, misunderstandings, slower progress.

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2. Management

ID	Probability	Impact	Priority / Prevention Measure
1	Medium	High	Use HTTPS, bcrypt for passwords, secure tokens, and regular security audits.
2	Medium	Medium	Set up monitoring (UptimeRobot, Prometheus), redundant backups, and automatic restarts.
3	Low	High	Implement automated database backups and test recovery procedures regularly.
4	Medium	High	Use static code analysis, regular dependency updates, and penetration testing.
5	High	Medium	Use Git branching strategy (feature branches, pull requests) and code review process.
6	Medium	Medium	Regularly check dependency updates and maintain version compatibility matrix.
7	Medium	High	Automate testing with CI/CD (GitHub Actions, PHPUnit, Jest) and enforce test coverage.
8	High	High	Agile sprints, clear milestones, and regular team reviews to track progress.
9	Low	High	Review GDPR compliance, add consent banners, anonymize data, and restrict access logs.
10	Medium	Medium	Weekly stand-ups, shared task board (Jira/Trello), and clear documentation.