

⚠ Risk Assessment & Mitigation Plan

Risk	Impact	Likelihood	Mitigation Strategy
1. Requirement Misunderstanding	High	Medium	Conduct regular meetings with stakeholders and review requirements continuously.
2. Delays in Development	High	Medium	Define clear timelines and responsibilities; conduct weekly progress reviews.
3. Integration Issues (Frontend-Backend)	Medium	High	Use API documentation tools (like Swagger/Postman); schedule regular integration testing.
4. Data Loss or Corruption	High	Low	Implement regular backups and use transactional database systems with rollback features.
5. Deployment Failures	Medium	Medium	Use staging environment for deployment testing; automate deployment using CI/CD tools.
6. Security Vulnerabilities (e.g. SQL Injection, XSS)	High	Medium	Validate user inputs, use parameterized queries, and apply security best practices.
7. Inadequate Testing	High	Medium	Prepare test cases in parallel with development; assign dedicated QA time and roles.
8. Team Member Unavailability	Medium	Low	Cross-train members; maintain updated documentation so others can pick up tasks if needed.
9. Payment Integration Failure	High	Low	Use sandbox environments to test payments; have a fallback option (e.g., COD or cash booking).

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10. Scalability Issues	Medium	Medium	Use modular and scalable architecture; optimize queries and use load testing tools