WANDERERS CONTINGENCY PLAN

Version <1.0>

<12/03/2025>

VERSION HISTORY

Version	Implemented	Revision	Approved	Approval	Reason
#	By	Date	By	Date	
1.0	Isaac Chun Jun Heng	12/3/2025	Isaac Chun Jun Heng	12/3/2025	

UP Template Version: 12/03/25

Detailed Risk Mitigation and Contingency Plan for Wanderlog Project

Risk Analysis Overview

- Insufficient Testing (Red Highest priority, Rank #1)
- Real-time synchronization failures (Red Rank #2)
- Data breaches or leaks (Red Rank #3)
- Scope Creep (Red Rank #4)
- Integration issues with external APIs (Google Places) (Yellow Rank #5)
- Security Misconfiguration (Red Rank #8)
- Unsatisfactory Performance (Yellow Rank #10)

1. Insufficient Testing

Element	Description	
Risk	Insufficient Testing	
Probability/Impa	70% (High) / High	
ct		
	- Implement mandatory code reviews with test coverage	
	requirements	
Mitigation Plan	- Set up automated testing pipeline in CI/CD	
Mitigation Ftan	- Establish a minimum test coverage threshold (80%)	
	- Create comprehensive test documentation	
	- Conduct regular QA training sessions	
	- Deploy emergency hotfix team for critical bugs	
	- Implement feature toggles for quick disabling of problematic	
Contingency	features	
Plan	- Establish rollback procedures for all deployments	
	- Maintain a separate staging environment that mirrors production	
	- Have on-call support team during major releases	

Responsible Parties	- QA Lead - Development Team - DevOps Engineer
Monitoring Indicators	Test coverage percentageNumber of bugs reported post-releaseFailed test metrics in CI pipeline
Timeline	Immediate implementation; weekly review

2. Real-time Synchronization Failures

Element	Description
Risk	Real-time Synchronization Failures
Probability/Impa	50% (Medium) / High
ct	30% (Mediam) / Filgin
	- Enhance backend retry mechanisms
	- Implement event queuing system
Mitigation Plan	- Develop conflict resolution strategies
	- Optimize database locking procedures
	- Add network latency monitoring
	- Implement offline mode capabilities
	- Create manual sync trigger option for users
Contingency	- Design graceful degradation to non-real-time mode
Plan	- Set up automated recovery procedures
	- Establish emergency communication protocol for widespread
	failures
Doononoible	- Backend Engineers
Responsible Parties	- DevOps Team
Parties	- Database Administrator
Monitoring	- Sync failure rate
Monitoring	- Average sync latency
Indicators	- Number of conflict resolutions required
Timeline	2 weeks for implementation; continuous monitoring

3. Data Breaches or Leaks

Element	Description
Risk	Data Breaches or Leaks
Probability/Impact	50% (Medium) / High
	- Conduct regular penetration testing
	- Review and enhance Supabase security configuration
Mitigation Plan	- Implement comprehensive data encryption
	- Establish secure access controls
	- Regular security training for team
	- Execute incident response plan
	- Notify affected users according to regulatory requirements
Contingonov Blon	- Engage security forensics team
Contingency Plan	- Isolate affected systems
	- Implement emergency patches
	- Prepare public communications strategy
	- Security Officer
Responsible	- Legal Team
Parties	- Communications Team
	- Development Lead
Monitoring	- Unusual access patterns
Indicators	- Failed authentication attempts
indicators	- Security scan results
Timeline	Monthly security audits; immediate response to incidents

4. Scope Creep

Element	Description
Risk	Scope Creep
Probability/Impact	45% (Medium) / High

	- Conduct weekly scope review meetings
	- Implement strict change request process
Mitigation Plan	- Create detailed documentation of requirements
	- Enforce prioritization methodology
	- Set clear project boundaries with stakeholders
	- Freeze non-essential feature development
	- Re-evaluate project timeline and resources
Contingency Plan	- Negotiate contract adjustments if necessary
	- Implement phased delivery approach
	- Temporarily reassign resources to priority items
Responsible	- Project Manager
Parties	- Product Owner
Parties	- Stakeholder Representatives
Manitaring	- Number of change requests
Monitoring	- Deviation from original scope
Indicators	- Project timeline extensions
Timeline	Weekly scope reviews; quarterly major assessments

5. Integration Issues with External APIs (Google Places)

Element	Description
Risk	Integration Issues with External APIs (Google Places)
Probability/Impact	20% (Low) / High
	- Add secondary API fallback options
	- Increase Places API quotas
Mitigation Plan	- Implement request caching
	- Develop redundancy mechanisms
	- Create comprehensive API documentation
	- Switch to alternative map provider
	- Implement cached data fallback
Contingency Plan	- Deploy simplified offline location functionality
	- Reduce API call frequency temporarily
	- Notify users of limited functionality

Responsible	- Integration Lead	
Parties	- Backend Engineers	
Monitoring	- API failure rate	
Indicators	- Quota usage	
indicators	- Response time metrics	
Timeline	Review API usage weekly; test fallbacks monthly	

6. Security Misconfiguration

Element	Description
Risk	Security Misconfiguration
Probability/Impact	30% (Medium) / High
	- Implement stricter Supabase rule checks
	- Schedule weekly security reviews
Mitigation Plan	- Enable notifications for configuration changes
	- Create security configuration templates
	- Adopt infrastructure as code for consistent setup
	- Apply emergency security patches
	- Temporarily restrict access to affected components
Contingency Plan	- Roll back to last known secure configuration
	- Conduct immediate security assessment
	- Monitor for exploitation attempts
Responsible	- Security Engineer
Parties	- DevOps Team
raities	- Database Administrator
Monitoring	- Failed security checks
Monitoring Indicators	- Configuration drift metrics
indicators	- Unauthorized access attempts
Timeline	Weekly security configuration reviews

7. Unsatisfactory Performance

Element	Description
Risk	Unsatisfactory Performance
Probability/Impact	30% (Medium) / Medium
	- Conduct regular caching optimization
	- Implement performance benchmarking
Mitigation Plan	- Optimize database queries
	- Set up performance monitoring tools
	- Create performance budgets for key features
	- Scale infrastructure resources
	- Temporarily disable resource-intensive features
Contingency Plan	- Implement emergency caching strategies
	- Optimize critical user paths
	- Deploy CDN for static content
Poononoible	- Performance Engineer
Responsible Parties	- Full-stack Developers
raities	- DevOps Team
	- Page load times
Monitoring	- Database query performance
Indicators	- User-reported performance issues
	- Server response times
Timeline	Monthly performance reviews; immediate action on critical issues

Implementation Recommendations

- 1. **Prioritize actions based on risk ranking**: Focus immediate resources on the top 3 risks (Insufficient Testing, Real-time synchronization failures, and Data breaches)
- 2. **Establish regular risk reviews**: Schedule bi-weekly risk assessment meetings to evaluate the effectiveness of mitigation strategies and update contingency plans as needed
- 3. **Create dedicated response teams**: For each high-impact risk, assign specific team members responsible for executing the contingency plan
- 4. **Document all incidents**: Maintain a detailed log of all risk events that occur, including response effectiveness and lessons learned
- 5. **Conduct simulations**: Regularly test contingency plans through controlled simulations to ensure team readiness

This comprehensive plan addresses both preventive measures to reduce the likelihood of risks occurring and responsive strategies to minimize impact when they do occur. The plan should be treated as a living document and updated as the project evolves.