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	70% (Filgil) / Filgil
	- 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
Parties	- 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 issue