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Eventix: Web-Based OTP Authenticated Event Scheduling and Attendance Management System

A System Proposal presented to the
Faculty of the College of Computer and Information Sciences,
Polytechnic University of the Philippines

In partial fulfillment for the course
COMP 025 – Project Management

by

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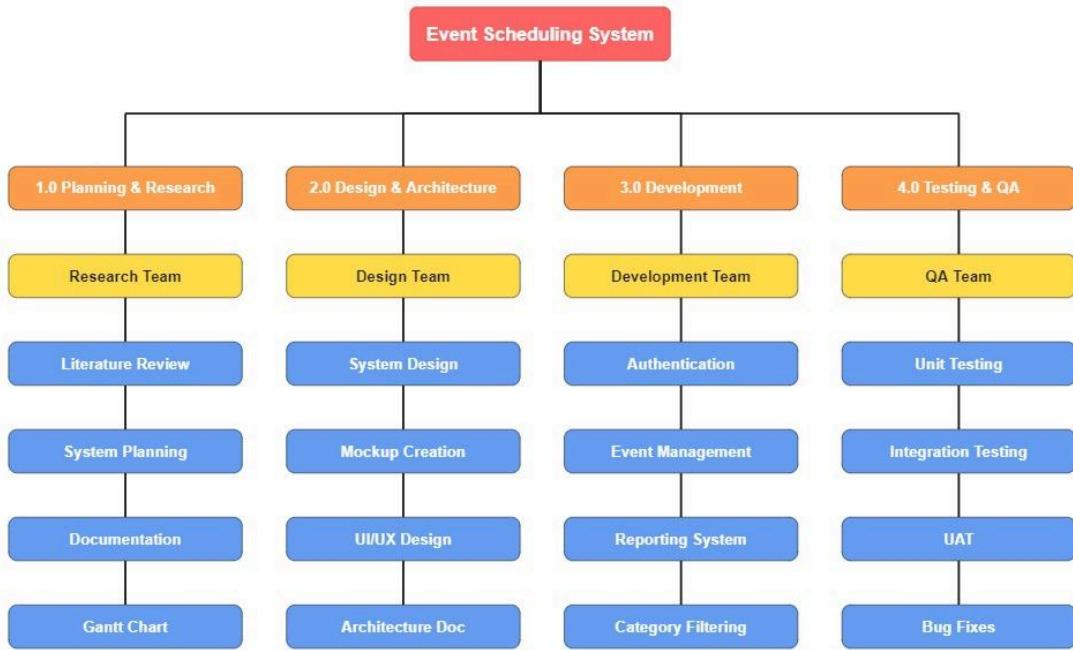
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Work Breakdown Structure

Eventix - Work Breakdown Structure



Sprint Mapping

1.0 Planning & Research

- Sprint 1: Research & Planning Phase
- Sprint 3: Documentation & Use Cases
- Sprint 6: Buffer & Consultation

2.0 Design & Architecture

- Sprint 2: System Design & Approval
- Sprint 4: Technical Documentation
- Sprint 5: Requirements Mapping

3.0 Development

- Sprint 2: Authentication Module
- Sprint 7: OTP Integration
- Sprint 8: Reporting System
- Sprint 9: UX/UI Enhancement
- Sprint 10: Event Categories

4.0 Testing & QA

- Sprint 5: Quality Assurance
- Sprint 9: Bug Fixes
- Sprint 11: Testing & Documentation

Figure 1. Work Breakdown Structure



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Eventix Gantt Chart

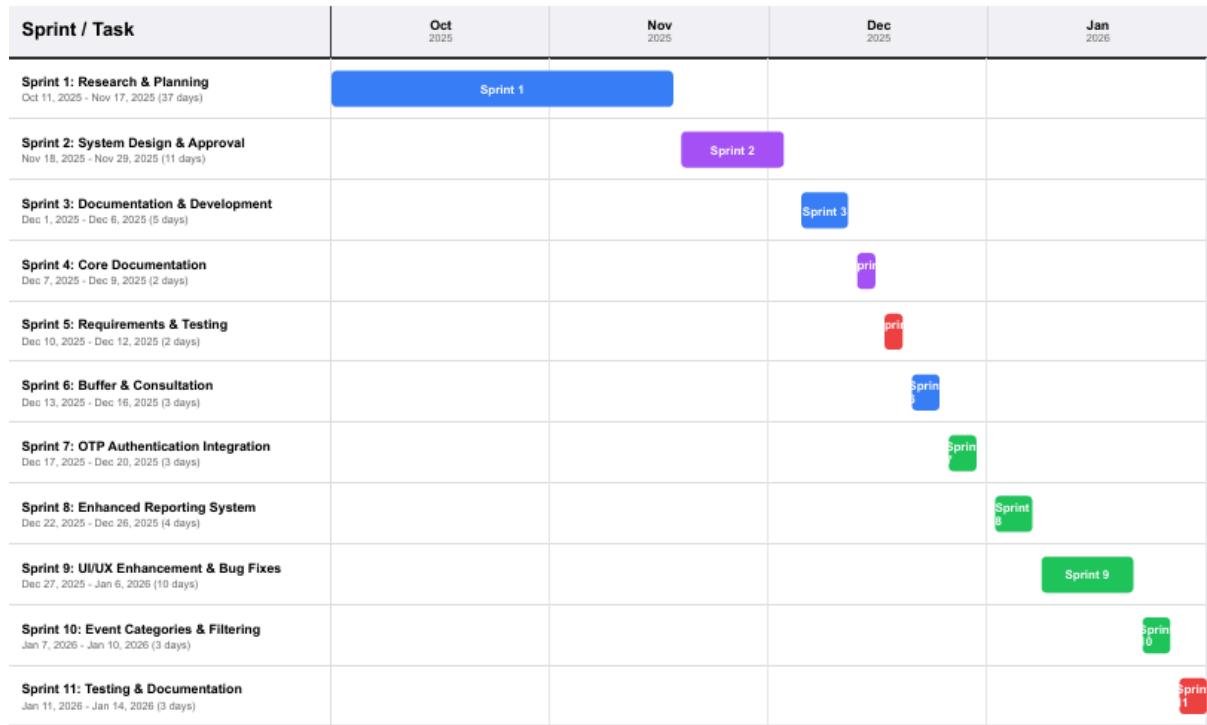


Figure 2. Gantt Chart

Sprint Summary

Sprint Summary

Sprint	Phase	Start Date	End Date	Duration	Key Tasks
Sprint 1	Planning	Oct 11, 2025	Nov 17, 2025	37 days	Research, Literature Review, Project Planning, Documentation
Sprint 2	Design	Nov 18, 2025	Nov 29, 2025	11 days	System Design, Authentication, UI Consistency, Frontend
Sprint 3	Planning	Dec 1, 2025	Dec 6, 2025	5 days	Chapter 1, Use Case Diagrams, Methodology Documentation
Sprint 4	Design	Dec 7, 2025	Dec 9, 2025	2 days	Objectives, Technical Documentation, Activity Diagrams
Sprint 5	Testing	Dec 10, 2025	Dec 12, 2025	2 days	Requirements Mapping, Quality Assurance, System Requirements
Sprint 6	Planning	Dec 13, 2025	Dec 16, 2025	3 days	Reviews, Testing Documentation, Chapter Consultation
Sprint 7	Development	Dec 17, 2025	Dec 20, 2025	3 days	OTP Integration, SMS/Email API, Verification & Testing
Sprint 8	Development	Dec 22, 2025	Dec 26, 2025	4 days	Reporting Features, Participant Journey, Cross-Event Tracking
Sprint 9	Development	Dec 27, 2025	Jan 6, 2026	10 days	UI Polish, Mobile Responsiveness, Performance Optimization
Sprint 10	Development	Jan 7, 2026	Jan 10, 2026	3 days	Category System, Activity Types, Filtering Functionality
Sprint 11	Testing	Jan 11, 2026	Jan 14, 2026	3 days	Unit Testing, Integration Testing, UAT, User Manual
Sprint 12	Planning	TBD	TBD	-	Scheduled for February 2026
Sprint 13	Deployment	TBD	TBD	-	Scheduled for February 2026
Sprint 14	Deployment	TBD	TBD	-	Scheduled for February 2026

Figure 3. Sprint Summary



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Risk Assessment & Cost Management

Risk Assessment Matrix Legend

Probability	Impact	Overall Severity
High Likely to occur	High Major project impact	High Immediate attention
Medium May occur	Medium Moderate impact	Medium Monitor closely
Low Unlikely to occur	Low Minor impact	Low Acceptable risk

Table 1. Risk Assessment Matrix Legend

Technical Risks

HIGH	
Authentication System Failure OTP integration may fail due to SMS/Email API issues	
MITIGATION STRATEGY:	Implement backup authentication methods, test thoroughly with multiple providers, have fallback to email-only
CONTINGENCY PLAN:	Use alternative SMS provider (Twilio/Semaphore), implement manual verification process

Table 2. High - Technical Risks

MEDIUM	
Database Performance Issues System slowdown with large number of events and participants	
MITIGATION STRATEGY:	Optimize database queries, implement indexing, use pagination for large datasets
CONTINGENCY PLAN:	Database restructuring, implement caching mechanisms

Table 3. Medium - Technical Risks



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LOW	
Browser Compatibility Issues System may not work properly on older browsers	
MITIGATION STRATEGY:	Test on multiple browsers (Chrome, Firefox, Safari, Edge), use polyfills where necessary
CONTINGENCY PLAN:	Provide browser upgrade recommendations, create fallback UI

Table 4. Low - Technical Risks

Schedule Risks

MEDIUM	
Sprint Delays Development tasks taking longer than estimated	
MITIGATION STRATEGY:	Buffer time in Sprint 6, regular sprint reviews, prioritize critical features
CONTINGENCY PLAN:	Reduce scope of non-critical features, extend timeline if approved

Table 5. Schedule Risks

Resource Risks

HIGH	
Insufficient Testing Resources Limited time/resources for comprehensive testing	
MITIGATION STRATEGY:	Integrate testing throughout development, automated testing where possible, dedicated testing sprint
CONTINGENCY PLAN:	Focus on critical path testing, extend testing phase

Table 6. Resource Risks

Operational Risks

MEDIUM	



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Data Loss Accidental deletion or corruption of data	
MITIGATION STRATEGY:	Implement regular backups, version control, database transaction logs
CONTINGENCY PLAN:	Restore from backup, manual data recovery procedures

Table 7. Data Loss - Medium - Operational Risks

MEDIUM	
Server Downtime Web hosting service experiences outages	
MITIGATION STRATEGY:	Choose reliable hosting provider with good uptime SLA, implement monitoring
CONTINGENCY PLAN:	Contact hosting support immediately, communicate with users about downtime

Table 8. Server Downtime - Medium - Operational Risks

Security Risks

HIGH	
Data Privacy Breach Exposure of sensitive participant information	
MITIGATION STRATEGY:	Encrypt sensitive data, implement proper access controls, follow data protection best practices
CONTINGENCY PLAN:	Incident response plan, notify affected parties, strengthen security measures

Table 9. High - Security Risks

MEDIUM	
Unauthorized Access Security breach or unauthorized system access	
MITIGATION STRATEGY:	Strong authentication, role-based access control, regular security audits, HTTPS encryption



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CONTINGENCY PLAN:	Immediate password reset, review access logs, patch vulnerabilities
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Table 10. Medium - Security Risks

User Adoption Risks

MEDIUM	
Low User Acceptance Users find system difficult to use or resist adoption	
MITIGATION STRATEGY:	User-centered design, comprehensive training, user feedback sessions, create user manual
CONTINGENCY PLAN:	Additional training sessions, UI improvements based on feedback

Table 11. User Adoption Risks

Cost Summary

4-Month Plan (Testing Phase)	1-Year Plan (Production)
₱1,150	₱5,600
<ul style="list-style-type: none">• Web Hosting: ₱650 (estimated)• SMS API: ₱500 (estimated usage)• Domain: Deferred to 1-year plan	<ul style="list-style-type: none">• Domain Name: ₱800• Web Hosting: ₱1,800 (annual)• SMS API: ₱3,000 (estimated usage)

Table 12. Cost Summary

Hosting & Domain

Item	Description	4-Month Cost	1-Year Cost	Notes
Web Hosting (Shared)	Basic shared hosting plan for web server	₱500 - ₱800	₱1,200 - ₱2,400	Can upgrade to 1-year after successful deployment
Domain Name (.com)	Website domain registration	N/A	₱600 - ₱800	Domains typically require minimum 1-year registration
SSL Certificate	Security	Free (Let's)	Free (Let's)	Many hosting



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	certificate for HTTPS	Encrypt)	Encrypt)	providers include free SSL
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Table 13. Hosting & Domain

Development Tools

Item	Description	4-Month Cost	1-Year Cost	Notes
Code Editor (VS Code)	Development IDE	Free	Free	Open-source, no cost
Version Control (GitHub)	Code repository and collaboration	Free	Free	Free for public repositories
Database (MySQL/Maria DB)	Database management system	Included in hosting	Included in hosting	Usually included with web hosting

Table 14. Development Tools

Communication Services

Item	Description	4-Month Cost	1-Year Cost	Notes
SMS API (Twilio/Semaphore)	OTP SMS delivery service	₱500 - ₱1,000	₱2,000 - ₱4,000	Estimated based on usage; can start with free tier
Email Service (SMTP)	Email delivery for OTP	Free (Gmail SMTP)	Free (Gmail SMTP)	Using Gmail SMTP for development/small scale

Table 15. Communication Services

Testing & Documentation

Item	Description	4-Month Cost	1-Year Cost	Notes
Testing Tools	Browser testing, debugging	Free	Free	Using free browser dev tools



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	tools			
Documentation Tools	Technical documentation	Free	Free	Using Google Docs, MS Word

Table 16. Testing & Documentation