

IT Project – IT2080

Activity 3

Sri Lanka Institute of Information Technology



Agile Activity Report
Information Technology Project (IT2080)
2025

Unified System for Insurance Claim Management

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Campus : Malabe

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Product Backlog

1. User Management Module

Feature Name	ID	User Story	Tasks	Priority	Estimation
User	UM-001	As a new user, I want	1. Create registration	High	8
Registration		to register with my	form UI		
		employee ID so that I	2. Implement backend		
		can access the system	registration API		
			3. Email verification		
			setup		
			4. Input validation		
User	UM-002	As a user, I want to	1. Login form UI	High	5
Authentication		securely login to access	2. JWT token		
		my account	implementation		
			3. Password encryption		
			(bcrypt)		
			4. Session management		
Role-based	UM-003	As an admin, I want to	1. Role assignment UI	High	13
Access		assign different roles to	2. Permission		
		users so they access	middleware		
		appropriate features	3. Route protection		
			4. Role validation		
Profile	UM-004	As a user, I want to	1. Profile edit form	Medium	5
Management		update my profile	2. Profile view page		
		information	3. Update API		
			4. Image upload for		
			avatar		



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Password	UM-005	As a user, I want to	1. Forgot password form	Medium	8
Reset		reset my password if I	2. Email reset link		
		forget it	3. Reset password page		
			4. Security token		
			generation		
Account	UM-006	As an admin, I want to	1. Account status toggle	Medium	3
Activation		activate/deactivate user	2. Admin dashboard		
		accounts	integration		
			3. Status change		
			notifications		
			4. Bulk operations		
User Activity	UM-007	As an admin, I want to	1. Login tracking system	Low	5
Logs		track user login activity	2. Activity dashboard		
		for security	3. Log storage		
			4. Export functionality		



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2. Policy Management Module

Feature Name	ID	User Story	Tasks	Priority	Estimation
Policy Creation	PM-001	As an admin, I want to	1. Policy creation form	High	13
		create new insurance	2. Policy type		
		policies for employees	definitions		
			3. Coverage limit		
			settings		
			4. Provider assignment		
Policy	PM-002	As an HR officer, I	1. Employee-policy	High	8
Assignment		want to assign policies	mapping		
		to employees based on	2. Bulk assignment		
		their designation	feature		
			3. Assignment validation		
			4. Assignment history		
Policy Viewing	PM-003	As an employee, I want	1. Policy dashboard UI	High	5
		to view my active	2. Policy details page		
		insurance policies and	3. Coverage		
		coverage details	visualization		
			4. Download policy		
			documents		
Policy	PM-004	As an admin, I want to	1. Renewal notification	Medium	8
Renewal		manage policy	system		
		renewals and	2. Renewal process		
		expiration dates	workflow		
			3. Expiration tracking		
			4. Automatic renewals		



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Policy	PM-005	As an HR officer, I	1. Policy edit interface	Medium	5
Modification		want to modify policy	2. Change approval		
		details when needed	workflow		
			3. Version control		
			4. Change notifications		
Policy Reports	PM-006	As an admin, I want to	1. Report generation	Low	8
		generate reports on	engine		
		policy utilization	2. Policy analytics		
			dashboard		
			3. Export capabilities		
			4. Filtering options		
Policy Categories	PM-007	As an admin, I want to	1. Category management	Medium	3
		categorize policies by type	system		
		(life, medical, vehicle)	2. Category assignment		
			3. Category-based filtering		
			4. Category reports		



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3. Claims Management Module

Feature Name	ID	User Story	Tasks	Priority	Estimation
Claim	CM-001	As an employee, I want	1. Claim submission	High	13
Submission		to submit insurance	form		
		claims with supporting	2. Document upload		
		documents	integration		
			3. Claim validation		
			4. Submission		
			confirmation		
Claim Tracking	CM-002	As an employee, I want	1. Claim status	High	8
		to track the status of	dashboard		
		my submitted claims	2. Status update system		
			3. Timeline visualization		
			4. Status notifications		
Claim Review	CM-003	As an HR officer, I	1. Claim review	High	13
		want to review and	interface		
		validate submitted	2. Approval/rejection		
		claims	workflow		
			3. Comment system		
			4. Review history		
Claim	CM-004	As an HR officer, I	1. Forwarding workflow	High	8
Forwarding		want to forward	2. Agent assignment		
		validated claims to	3. Forwarding		
		insurance agents	notifications		
			4. Tracking integration		



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Insurance	CM-005	As an insurance agent,	1. Agent dashboard	High	13
Processing		I want to process	2. Claim processing		
		forwarded claims and	interface		
		make decisions	3. Decision recording		
			4. Reimbursement		
			calculation		
Claim History	CM-006	As a user, I want to	1. Claims history page	Medium	5
		view my claim history	2. Search and filter		
		and previous decisions	options		
			3. Detailed claim view		
			4. Export functionality		
Claim	CM-007	As an admin, I want to	1. Analytics dashboard	Low	8
Analytics		analyze claim patterns	2. Performance metrics		
		and processing times	3. Trend analysis		
			4. Report generation		
Bulk Claim	CM-008	As an insurance agent,	1. Bulk selection	Medium	8
Processing		I want to process	interface		
		multiple claims	2. Batch processing		
		efficiently	3. Progress tracking		
			4. Bulk notifications		



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4. Document Management Module

Feature Name	ID	User Story	Tasks	Priority	Estimation
Document	DM-001	As a user, I want to	1. File upload	High	8
Upload		upload documents	component		
		securely for my claims	2. File type validation		
			3. Size limit		
			enforcement		
			4. Security scanning		
Document	DM-002	As a system, I want to	1. Cloud storage	High	13
Storage		store documents	integration		
		securely with proper	2. File encryption		
		organization	3. Folder structure		
			4. Backup system		
Document	DM-003	As a user, I want to	1. Document viewer	High	5
Viewing		view uploaded	interface		
		documents associated	2. Preview functionality		
		with claims	3. Download options		
			4. Access logging		
Document	DM-004	As a system, I want to	1. Document type	Medium	8
Classification		automatically classify	detection		
		documents by type	2. Metadata extraction		
			3. Auto-tagging		
			4. Classification rules		
Document	DM-005	As a user, I want to	1. Search interface	Medium	8
Search		search for documents	2. Indexing system		
		using keywords or	3. Advanced filters		
		filters	4. Search results display		



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Document	DM-006	As a user, I want to	1. Version control	Low	5
Versioning		maintain versions of	system		
		updated documents	2. Version comparison		
			3. Version history		
			4. Rollback functionality		
Document	DM-007	As an HR officer, I	1. Sharing interface	Medium	5
Sharing		want to securely share	2. Permission controls		
		documents with	3. Access tracking		
		insurance agents	4. Share notifications		



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5. Messaging System

Feature Name	ID	User Story	Tasks	Priority	Estimation
Direct Messaging	MS-001	As a user, I want to send direct messages to other stakeholders	 Chat interface UI Real-time messaging API Message delivery system Message history 	High	13
Group Conversations	MS-002	As an HR officer, I want to create group conversations for claim discussions	 Group chat creation Member management Group permissions Group notifications 	Medium	8
Message Notifications	MS-003	As a user, I want to receive notifications for new messages	 Push notification system Email notifications Notification preferences Read receipts 	High	8
File Sharing	MS-004	As a user, I want to share files through messages	 File attachment system File preview in chat Download functionality File size limits 	Medium	5
Message Search	MS-005	As a user, I want to search through my message history	 Search interface Message indexing Search filters Search results highlighting 	Medium	5



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Message	MS-006	As a system, I want to	1. Archiving system	Low	3
Archiving		archive old messages	2. Archive retrieval		
		for storage	3. Storage management		
		optimization	4. Archive notifications		
Claim Context	MS-007	As a user, I want	1. Claim-message	High	8
Messaging		messages to be	linking		
		contextually linked to	2. Context display		
		specific claims	3. Message		
			categorization		
			4. Context navigation		



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6. Notifications System

Feature Name	ID	User Story	Tasks	Priority	Estimation
Email	NS-001	As a user, I want to	1. Email service	High	8
Notifications		receive email	integration		
		notifications for	2. Email templates		
		important updates	3. Delivery system		
			4. Bounce handling		
In-app	NS-002	As a user, I want to see	1. Notification UI	High	8
Notifications		notifications within the	component		
		application	2. Real-time updates		
			3. Notification center		
			4. Mark as read		
			functionality		
SMS	NS-003	As a user, I want to	1. SMS gateway	Medium	5
Notifications		receive SMS	integration		
		notifications for critical	2. SMS templates		
		updates	3. Delivery confirmation		
			4. Cost optimization		
Notification	NS-004	As a user, I want to	1. Preferences interface	Medium	5
Preferences		customize my	2. Channel selection		
		notification preferences	3. Frequency settings		
			4. Category preferences		
Scheduled	NS-005	As a system, I want to	1. Scheduling system	Medium	8
Notifications		send scheduled	2. Cron job setup		
		notifications for	3. Reminder logic		
		deadlines and	4. Schedule management		
		reminders			



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Notification	NS-006	As a user, I want to	1. History interface	Low	3
History		view my notification	2. Notification storage		
		history	3. Search functionality		
			4. Archive system		
Push	NS-007	As a user, I want to	1. Push service	Low	8
Notifications		receive push	integration		
		notifications on my	2. Device registration		
		mobile device	3. Push templates		
			4. Platform		
			compatibility		



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7. AI Chat-bot Module

Feature Name	ID	User Story	Tasks	Priority	Estimation
Basic Q&A	CB-001	As a user, I want to ask	1. Chatbot UI	High	13
		common questions and	component		
		get instant answers	2. Knowledge base setup		
			3. NLP integration		
			4. Response system		
Claim	CB-002	As an employee, I want	1. Process flow	High	8
Guidance		the chatbot to guide me	integration		
		through the claim	2. Step-by-step guidance		
		process	3. Interactive tutorials		
			4. Progress tracking		
Policy	CB-003	As a user, I want to ask	1. Policy data	Medium	8
Information		about my policy details	integration		
		through the chatbot	2. User context		
			awareness		
			3. Policy querying		
			4. Formatted responses		
Knowledge	CB-004	As an admin, I want to	1. Admin knowledge	Medium	5
Base		update the chatbot's	interface		
Management		knowledge base	2. Content management		
			3. Training data updates		
			4. Performance		
			monitoring		
Escalation	CB-005	As a user, I want the	1. Escalation triggers	Medium	5
System		chatbot to escalate	2. Human handoff		
		complex queries to	3. Context transfer		
		human agents	4. Escalation tracking		



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Multi-language	CB-006	As a user, I want to	1. Language detection	Low	8
Support		interact with the 2. Translation			
		chatbot in my preferred	integration		
		language	3. Localized responses		
			4. Language switching		
Analytics &	CB-007	As an admin, I want to	1. Interaction analytics	Low	5
Learning		analyze chatbot	2. Performance metrics		
		interactions to improve	3. Learning algorithms		
		responses	4. Improvement		
			suggestions		



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Sprint Overview

Sprint 1 (Weeks 1-2): Foundation & System Setup

Build core system infrastructure with all modules getting initial setup

This sprint establishes the foundation across all system modules. Each team member will work on their assigned modules to create the basic infrastructure. User management will provide authentication, policy management will set up basic policy structures, claims management will prepare claim submission capabilities, document management will establish file handling, messaging will create basic communication features, and notifications will implement core alert systems. All team members are actively contributing from day one.

Sprint 2 (Weeks 3-4): Core Business Logic

Implement primary business workflows and user interactions

This sprint focuses on delivering the main business functionality. The claims workflow will be operational, policy management will be fully functional, document systems will handle secure uploads and viewing, messaging will enable stakeholder communication, and the AI chatbot will provide basic support. Users will be able to perform their primary tasks including policy viewing, claim submission, and basic system interactions.

Sprint 3 (Weeks 5-6): Advanced Features & System Completion

Complete all remaining features and deliver production-ready system

The final sprint completes all remaining features and focuses on system polish. Advanced analytics, reporting, and optimization features are implemented. All modules are fully integrated with complete workflows, comprehensive testing is performed, and the system is prepared for production deployment. This delivers a complete, enterprise-ready insurance management system.

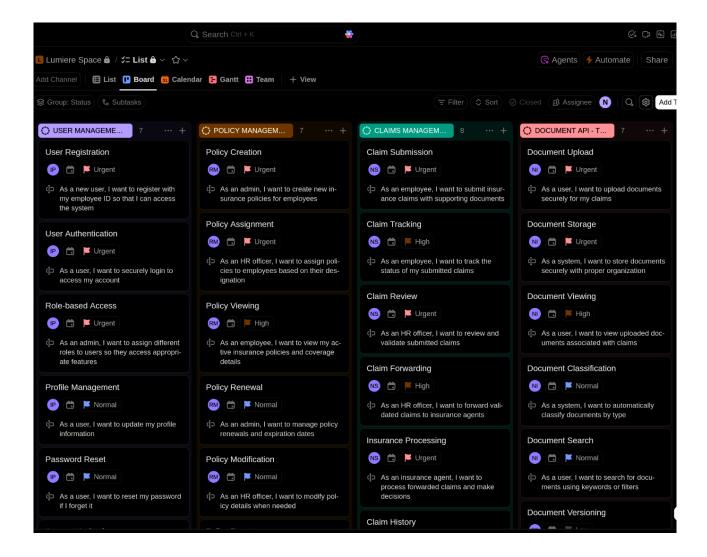


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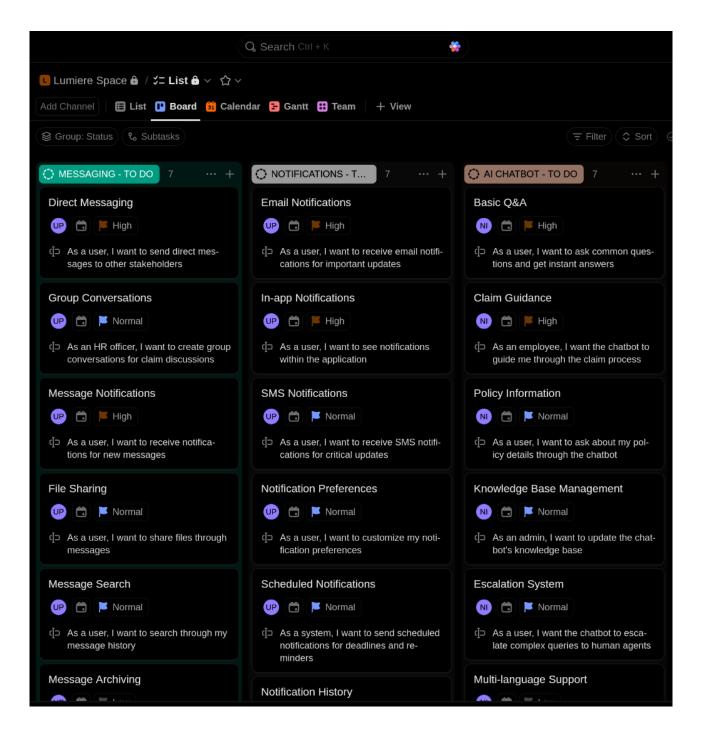
Kanban Board (ClickUp)

Board Link: https://sharing.clickup.com/90181636613/b/h/4-90186386130-2/53c8d20957cbf4b





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Sprint Plan

Sprint 1: Foundation & System Setup

Member Reg Number	Feature Name	Feature ID	Module	Priority	Agile Estimate
IT23725010	User Registration	UM-001	User Management	High	8
IT23725010	User Authentication	UM-002	User Management	High	5
IT23725010	Role-based Access	UM-003	User Management	High	13
IT23828766	Policy Creation	PM-001	Policy Management	High	13
IT23836440	Claim Submission	CM-001	Claims Management	High	13
IT23834774	Document Upload	DM-001	Document Management	High	8
IT23830332	Direct Messaging	MS-001	Messaging	High	13
IT23830332	Email Notifications	NS-001	Notifications	High	8
IT23828766	Policy Assignment	PM-002	Policy Management	High	8
IT23836440	Claim Tracking	CM-002	Claims Management	High	8
IT23834774	Basic Q&A	CB-001	AI Chatbot	High	13
IT23725010	Profile Management	UM-004	User Management	Medium	5



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Sprint 2: Core Business Logic

Member Reg Number	Feature Name	Feature ID	Module	Priority	Agile Estimate
IT23828766	Policy Viewing	PM-003	Policy Management	High	5
IT23836440	Claim Review	CM-003	Claims Management	High	13
IT23836440	Claim Forwarding	CM-004	Claims Management	High	8
IT23836440	Insurance Processing	CM-005	Claims Management	High	13
IT23834774	Document Storage	DM-002	Document Management	High	13
IT23834774	Document Viewing	DM-003	Document Management	High	5
IT23830332	Message Notifications	MS-003	Messaging	High	8
IT23830332	In-app Notifications	NS-002	Notifications	High	8
IT23830332	Claim Context Messaging	MS-007	Messaging	High	8
IT23834774	Claim Guidance	CB-002	AI Chatbot	High	8
IT23828766	Policy Renewal	PM-004	Policy Management	Medium	8
IT23828766	Policy Modification	PM-005	Policy Management	Medium	5
IT23836440	Claim History	CM-006	Claims Management	Medium	5
IT23725010	Password Reset	UM-005	User Management	Medium	8



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Sprint 3: Advanced Features & System Completion

Member Reg Number	Feature Name	Feature ID	Module	Priority	Agile Estimate
IT23830332	Group Conversations	MS-002	Messaging	Medium	8
IT23834774	Document Classification	DM-004	Document Management	Medium	8
IT23834774	Document Search	DM-005	Document Management	Medium	8
IT23836440	Bulk Claim Processing	CM-008	Claims Management	Medium	8
IT23830332	File Sharing	MS-004	Messaging	Medium	5
IT23830332	Message Search	MS-005	Messaging	Medium	5
IT23834774	Document Sharing	DM-007	Document Management	Medium	5
IT23834774	Policy Information	CB-003	AI Chatbot	Medium	8
IT23834774	Knowledge Base Management	CB-004	AI Chatbot	Medium	5
IT23834774	Escalation System	CB-005	AI Chatbot	Medium	5
IT23830332	SMS Notifications	NS-003	Notifications	Medium	5
IT23830332	Notification Preferences	NS-004	Notifications	Medium	5
IT23830332	Scheduled Notifications	NS-005	Notifications	Medium	8
IT23725010	Account Activation	UM-006	User Management	Medium	3
IT23828766	Policy Categories	PM-007	Policy Management	Medium	3
IT23828766	Policy Reports	PM-006	Policy Management	Low	8
IT23836440	Claim Analytics	CM-007	Claims Management	Low	8



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IT23834774	Document Versioning	DM-006	Document Management	Low	5
IT23830332	Message Archiving	MS-006	Messaging	Low	3
IT23834774	Multi-language Support	CB-006	AI Chatbot	Low	8
IT23834774	Analytics & Learning	CB-007	AI Chatbot	Low	5
IT23830332	Notification History	NS-006	Notifications	Low	3
IT23830332	Push Notifications	NS-007	Notifications	Low	8
IT23725010	User Activity Logs	UM-007	User Management	Low	5