

Work Item Type	Title1 (Epic)	Title 2 (User story/Task)	Title 3	Estimate
Epic	PTMS - Public Transportation Management System			
Epic	User Management			
User story		User Registration and authentication		5
Task			Design authentication flow	
Task			Implement role-based access control	
Test case			Verify secure login and access	
Epic	Passenger services		Account lock after multiple failed logins	
			Password reset and email verification	
			User profile update	
User Story		Real-time schedule visualization		5
Task			Integrate live vehicle data	
Test case			Validate real-time updates	
			Handle service disruption notifications	
			Optimize refresh rate for performance	
Epic	Vehicle tracking		Filter schedules by line and stop	
User story		Vehicle tracking on map		5
			Refresh vehicle positions in real time	
			Show vehicle direction and speed	
Task			Map and GPS integration	
Test case			Verify vehicle position accuracy	
Epic	NFC Passenger Registration		Fallback behaviour when GPS signal is lost	
User story		NFC-based passenger registration		8
			Sync offline NFC records when reconnected	
			Store entry/exit timestamps	
Task			Implement IoT - NFC communication	
Test case			Verify encrypted NFC communication	
Epic	Operator Management		Handle duplicated or failed NFC scans	
User story		Route, stop and service management		5
			Publish extraordinary traffic notifications	
			Versioning of routes and schedules	
Task			CRUD (create, read, update, delete) routes and stops	
Test case			Validate route changes	
Epic	Reporting and Statistics		Assign vehicles to routes	
User story		Passenger reporting and statistics		5
			View reported incidents on map	
			Export statistics reports (PDF/CSV)	
Task			Implement reporting module	
Test case			Verify reports and statistics	
			Aggregate usage statistics per line	
Epic	non-funcional Requirements		Aggregate statistics per time period	
User story		Security and performance compliance		8
			Monitor system availability (99.5%)	
Task			Encrypt all communication channels	
Test case			Validate performance <500ms	
			Scalability testing under load	