

USER STORIES

with Acceptance Criteria (Gherkin Syntax)

Road Crash Case Information System

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Version 1.0

Note: Due to privacy and security reasons, this project has been modified, and sensitive information is not displayed.

User Story 1: Register Crash Card with GPS Location

User Story ID	US-001
Title	Register a New Crash Card with Automatic GPS Location Capture
User Story	<i>As a patrol inspector</i> <i>I want to fill out a digital crash card on my tablet at the accident scene with the GPS location automatically captured,</i> <i>so that the crash location is precisely recorded without manual coordinate entry and the data is immediately available in the central system.</i>
Priority	Critical
Estimation	8 Story Points
Acceptance Criteria (Gherkin)	Scenario 1: Successful crash card registration with GPS Given the patrol inspector is authenticated on the tablet application And the tablet GPS module is active and has a signal When the inspector selects 'New Card' Then the system auto-populates the inspector's name from the user profile And the system captures the GPS coordinates (N, E) from the device And the GPS coordinates are displayed in the location form Scenario 2: Save crash card with all mandatory fields Given the inspector has filled in all mandatory fields: - Crash type (criminal or administrative) - Road/location name - Municipality (from reference catalog) - Crash date and time - At least one vehicle involved - At least one person involved When the inspector clicks 'Save' Then the system assigns a unique sequential crash ID And the card is saved with status 'Registered ' And a creation timestamp and user identity are recorded Scenario 3: GPS signal unavailable Given the patrol inspector is authenticated on the tablet And the GPS module does not have a signal When the inspector selects 'New Card' Then the system displays a warning: 'GPS signal unavailable' And the GPS coordinate fields become editable for manual entry And the inspector can enter coordinates manually to proceed

User Story 2: Verify Crash Card and Attach Sketch

User Story ID	US-002
Title	Verify a Registered Crash Card and Attach Scanned Sketch ¹
User Story	<i>As a manager</i> <i>I want to review registered crash cards, correct any errors, attach the scanned crash scene sketch, and verify the card,</i> <i>so that only complete and accurate data is used for analytical reporting.</i>
Priority	High
Estimation	5 Story Points
Acceptance Criteria (Gherkin)	Scenario 1: Successfully verify a crash card Given the manager is authenticated in the e-Flow system And a crash card exists with status 'Registered' When the manager opens the card and reviews all sections And the manager uploads the scanned crash sketch image And the manager clicks 'Verify' Then the card status changes to 'Verified' And the verification timestamp and manager identity are recorded And the card becomes eligible for inclusion in analytical reports Scenario 2: Edit incorrect data before verification Given the manager is reviewing a registered crash card And the manager identifies incorrect data in the vehicle section When the manager edits the vehicle information and saves Then the change is logged with edit date, time, and manager identity And the original data is preserved in the change history And the card remains with status 'Registered' until explicitly verified Scenario 3: Attempt to verify without crash sketch Given the manager is reviewing a registered crash card And no crash sketch image has been attached When the manager clicks 'Verify' Then the system displays a warning: 'Crash sketch is required for verification' And the card status remains 'Registered'

¹ after a crash occurs, the patrol inspector draws a hand-drawn diagram of the accident scene on a special paper form. This sketch shows the positions of vehicles, the road layout, directions of movement, and other visual details of how the crash happened

User Story 3: Search Crash Data and Export to Excel

User Story ID	US-003
Title	Search Crash Records by Multiple Parameters and Export Results
User Story	<i>As an analyst,</i> <i>I want to search crash records using various parameters (date range, municipality, crash type, GPS area, injury severity) and export results to Excel,</i> <i>so that I can identify black spots, analyze crash patterns, and prepare road safety reports.</i>
Priority	High
Estimation	8 Story Points
Acceptance Criteria (Gherkin)	Scenario 1: Quick search by municipality and date range Given the analyst is authenticated on the web platform And the analyst is accessing from an authorized IP address When the analyst selects Quick Search And enters municipality 'Tbilisi' and date range '01.01.2026 - 23.04.2026' And clicks 'Search' Then the system displays all verified crash cards matching the criteria And the results are shown in a sortable list with columns: location, date, type, vehicles, persons, status Scenario 2: Advanced search with multiple filters Given the analyst is on the search page When the analyst selects Advanced Search And sets filters: crash type = 'Collision with pedestrian', injury = 'Killed', climate = 'Rainy' And clicks 'Search' Then only verified cards matching ALL selected criteria are displayed And the result count is shown Scenario 3: Export search results to Excel Given the analyst has performed a search And the results list contains at least one record When the analyst clicks 'Export to Excel' Then the system generates an .xlsx file containing all visible columns And the file is downloaded to the analyst's computer And all records from the current search results are included Scenario 4: No results found Given the analyst has entered search parameters When the analyst clicks 'Search' And no crash cards match the criteria Then the system displays 'No records match your criteria' And the Export button is disabled