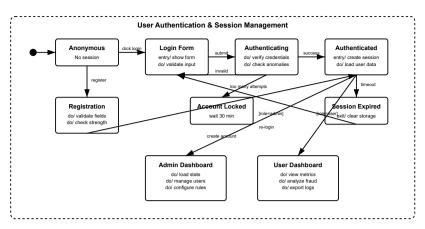
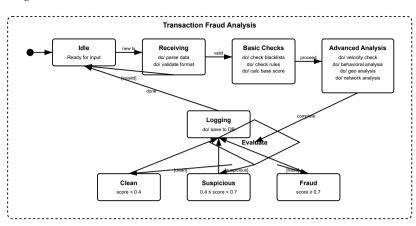
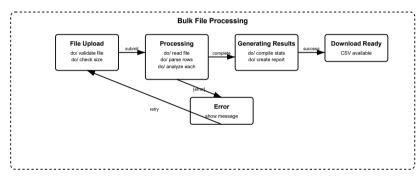


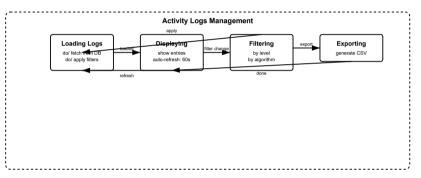
26/07/2025, 09:39 state_diagram.svg

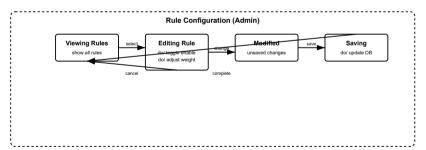
FraudShield State Diagram

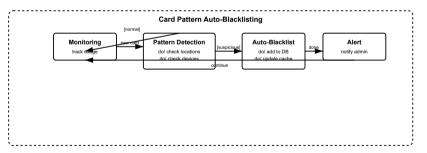




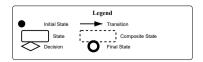




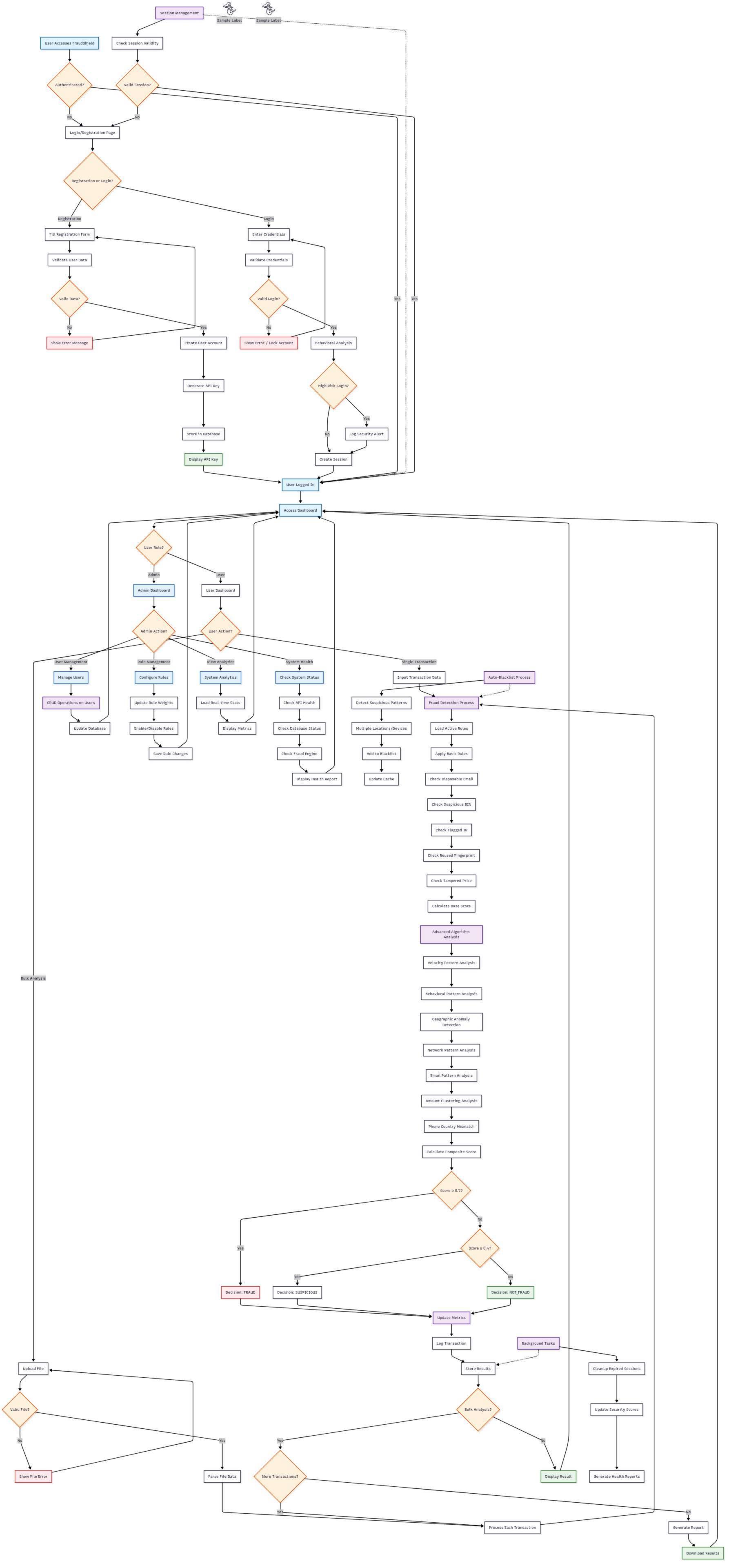




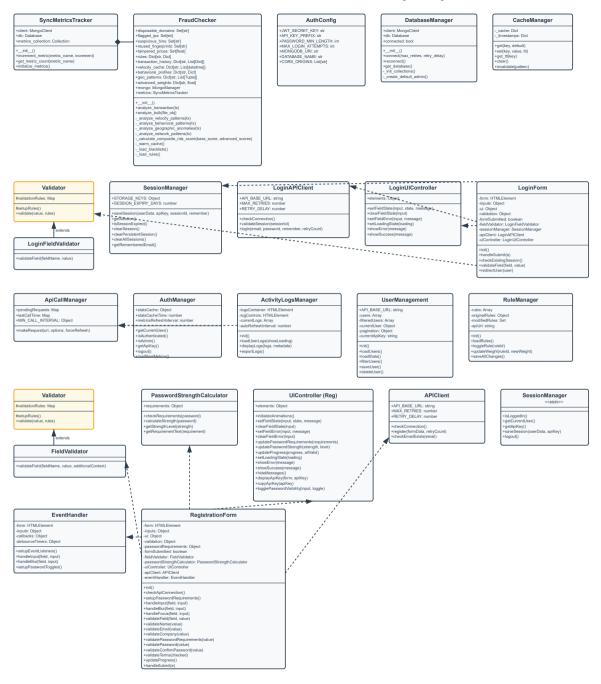




FraudShield Sequence Diagram User Frontend Auth API Fraud API MongoDB FraudChecker Cache eturn message Activation box (processing) Success + API key Scenario 2: Transaction Fraud Check with Advanced Algorithms Submit transaction Validate API key User Info analyze_transaction() loop [Basic Checks] Check blacklists Load rules Active rules Behavioral analysis Geo analysis Network analysis Composite score + decision Log activity Scenario 3: Bulk File Processing Upload CSV file POST /bulk-check loop [For each transaction] analyze transaction() Result Update metrics Scenario 4: Activity Logs with Auto-refresh Click Activity Logs Query logs Log entries Filter: fraud only Scenario 5: Card Pattern Auto-blacklisting Transaction with card X Check card usage 3+ locations Add to suspicious_bins



refine-class-diagram.svg



FraudShield Runtime Object Diagram

Showing actual object instances at runtime

