**User Stories**

*Road Watcher*

*December 2024*

*Version 3.0*

**Epic 1: User Registration & Authentication**

**US-001 – User Sign Up**

* **As a** new user
* **I want to** create an account with email and password
* **So that** I can use the app securely.
* **Acceptance Criteria:**
  + User can input email and password.
  + System validates unique email.
  + Account is created and confirmation is shown.
* **Priority:** High

**US-002 – User Login**

* **As a** registered user
* **I want to** log into the app
* **So that** I can access my account and track my reports.
* **Acceptance Criteria:**
  + Login form accepts valid credentials.
  + Invalid login returns error message.
  + Successful login redirects to dashboard.
* **Priority:** Critical

**US-003 – Password Reset**

* **As a** user
* **I want to** reset my password in case I forget it
* **So that** I can regain access to my account.
* **Acceptance Criteria:**
  + User can request password reset link.
  + Link sent to registered email.
  + User can set new password.
* **Priority:** High

**Epic 2: Reporting a Pothole**

**US-004 – Capture Pothole Photo**

* **As a** user
* **I want to** take a photo of a pothole and upload it
* **So that** the issue can be visualized clearly.
* **Acceptance Criteria:**
  + Camera access is granted.
  + Image can be previewed and uploaded.
* **Priority:** Critical

**US-005 – Describe and Locate Pothole**

* **As a** user
* **I want to** input the pothole’s description and exact location
* **So that** authorities can find and fix it.
* **Acceptance Criteria:**
  + Location auto-detected or manually entered.
  + Description field available.
* **Priority:** High

**US-006 – Submit Report Form**

* **As a** user
* **I want to** submit the report easily through a form
* **So that** it doesn’t take too long.
* **Acceptance Criteria:**
  + Form validation enforced.
  + Confirmation after successful submission.
* **Priority:** Critical

**Epic 3: Report Tracking**

**US-007 – View Reports on Map**

* **As a** user
* **I want to** see all pothole reports on a map
* **So that** I know which areas are affected.
* **Acceptance Criteria:**
  + Reports displayed as pins on map.
  + Filter by date/status available.
* **Priority:** Medium

**US-008 – Check Report Status**

* **As a** user
* **I want to** check the status of my reports
* **So that** I know if they are being processed.
* **Acceptance Criteria:**
  + Status clearly shown for each report.
  + History of status changes accessible.
* **Priority:** High

**US-009 – Receive Status Updates**

* **As a** user
* **I want to** receive push notifications when my report status changes
* **So that** I stay informed.
* **Acceptance Criteria:**
  + Notifications triggered on status change.
* **Priority:** Medium

**Epic 4: Admin Management**

**US-010 – Admin View Reports**

* **As an** admin
* **I want to** view all incoming reports
* **So that** I can evaluate and prioritize them.
* **Acceptance Criteria:**
  + Admin panel shows list with filters.
* **Priority:** High

**US-011 – Update Report Status**

* **As an** admin
* **I want to** update the status of each report
* **So that** users are informed of the progress.
* **Acceptance Criteria:**
  + Dropdown to set status.
  + Updates reflected to users.
* **Priority:** Critical

**US-012 – Assign Reports to Teams**

* **As an** admin
* **I want to** assign reports to maintenance teams
* **So that** work orders are clear and organized.
* **Acceptance Criteria:**
  + Admin can choose teams.
  + Assigned team receives notification.
* **Priority:** Medium

**Epic 5: System & Notifications**

**US-013 – App Performance**

* **As a** user
* **I want** the app to load quickly and use minimal data
* **So that** my experience is smooth.
* **Acceptance Criteria:**
  + App loads in under 3s on 4G.
* **Priority:** High

**US-014 – Data Security**

* **As a** user
* **I want** my data to be protected
* **So that** I feel safe using the app.
* **Acceptance Criteria:**
  + Passwords hashed.
  + HTTPS enforced.
* **Priority:** Critical

**US-015 – High Concurrent Users Support**

* **As a** stakeholder
* **I want** the system to handle multiple users without crashing
* **So that** it scales well.
* **Acceptance Criteria:**
  + Load tested for 1000+ users.
* **Priority:** Medium