

Pothole Tracker

Application Overview

Navigating around pot-holes can be a challenge in the winter months, especially when they lay buried under a fresh layer of snow, waiting to flatten a tire, crack a rim, or damage an axle. The damages can be substantial.

This application allows drivers to assist the City of Cleveland to repair potholes by reporting the location of potholes they find on city streets. City employees at the Division of Streets can then review the reports and use the data stored in the system to manage inspection and repairs.

Users

User Type	Description
Drivers	The driver is a member of the public. They are general users of the system that provide input on pothole sightings. They also use the system for guidance to avoid pothole-ridden routes.
Employee	The employee are the managers of data within the system. All pothole sightings and repairs are approved by them.

Minimum Viable Product

The following User Stories are the functionality required to build the “Minimum Viable Product”.

All must be completed in order for the project to be successfully completed.

Register

As a user, I need the ability to register a user account so that I can report potholes.

Log In

As a user, I need the ability to log in to the system, so that I can use the system.

Report a Pothole

As a user of the system, I want to report a pothole so that the city will fix it.

View Potholes

As an anonymous user, I need the ability to view all reported potholes so that I can avoid them on my route.

Review Reported Potholes

As an employee who uses the system, I want to view a list of potholes that have been reported so that I can schedule them for inspection.

Schedule For Inspection & Repair

As an employee who has reviewed a pothole, I need to update its status so that users can see progress.

Status workflow:

- Reported (date)
- Inspected (date)
- Repaired (date)

Delete a Pothole

As an employee, when I receive a report for a pothole that already exists, I need to delete the pothole so that redundant repair effort does not take place.

Rank Pothole Severity

As an employee, once a pothole has been inspected, I want to rank its severity so that it can be prioritized during repair.

Optional Features

The following User Stories are ideas for optional features that can be added to the application after all MVP functionality is complete.

Pothole Map

As a member of the public I want to see the location of reported potholes (by status) displayed on a street map.

Attach Picture to Pothole Report

As a driver who is submitting a pothole report, I need to attach a picture to the report in order to make it easier for the city to identify and fix the pothole.

Mobile Friendly Pothole Reporting

As a driver who is submitting a pothole report, I want the application to be easy to use on my mobile device so that I can make a report while away from my PC.

Public Reporting

As any user, I want to see a report of the city's progress repairing potholes so that I can tell if my city listens to its citizens.

Submit a Damage Claim

As a driver whose vehicle has been damaged due to a pothole, I want to submit a claim for damages to the City of Cleveland so that I can be reimbursed for repair costs.