

Reporting System Specifications

This document specifies the features, functionality, and approximate interface of a form to report problems encountered along the trails in Sibiu County, Romania.

Example Interface

The prototype in *Figure 1* provides an overall approximation of the form’s visual interface. Italicized text indicates a comment that would not be present in the final version.

(Header styled to match site)
Trail Problem Reporting Form

Your feedback is important. If you encountered any sort of problem along a trail please provide a detailed description so a trail manager can address it as soon as possible.

Name

Email address

Type of issue

- Aggressive sheepdogs
- Blocked or overgrown trail
- Erosion
- Litter
- Missing or confusing signage
- Vandalism or general damage
- Other (please specify below)

Describe the problem

(Optional unless "other" is selected above)

Tag geolocation

Describe location

(Optional if a geolocation has been submitted)

Approximate date of observation

Upload images

Figure 1: Prototype reporting form interface

Feature Breakdown

This section describes the features and their functionality.

Input Fields

1. Small text entry: submitter's name
 - a. Required
2. Small text entry: submitter's email address
 - a. Required
3. Radio buttons: select issue from common problems
 - a. Required
 - b. Options (in alphabetical order):
 - i. Aggressive sheepdogs
 - ii. Blocked or overgrown trail
 - iii. Erosion
 - iv. Litter
 - v. Missing or confusing signage
 - vi. Vandalism or general damage
 - vii. Other (please specify below)
4. Large text entry: description of problem
 - a. Required if "other" is selected in *Feature 3*
 - b. Optional if any other option is selected in *Feature 3*
5. Large text entry: description of location
 - a. Optional if coordinates have been recorded using *Feature 6*
 - b. Otherwise, this is required
6. Small text entry: date of observation
 - a. Required
 - b. Note: this is a text entry box, not a calendar picker

Functional Components

7. Button: detect current location
 - a. Requests the location of the user's device
 - i. Mobile device support is critical
 - b. If successful, records the latitude and longitude
 - c. If unsuccessful, informs the user why (if permissions were denied or if their device is unsupported, etc.)
8. Button: multiple file upload
 - d. After upload, provides the option "upload another file" up to 10 files
 - e. Reasonable file size limit should allow short videos
 - f. Should allow common photo and video formats, such as PNG, JPEG, HEIC, MP4
9. Button: submit
 - a. Submits the form if all required input fields are satisfied

On Submission

When successfully submitted, the form should:

- Store information from all input fields (*Features 1-5*)
- Store information from location button (*Feature 6*)
- Store any submitted files (*Feature 7*)
- Store date and time of submission
- Notify an email address of the new response, including a summary of the submission

Stored information should be in an accessible database. This specification will not mandate the exact nature of the database, but its contents should be easily viewable in a tabular format by non-technical users.