



# **SSI - Snake Species Identifier**

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## 1. Description

A company wants to create an application that given a set of images with snakes and a corresponding geographic location, searches through their database and uses artificial intelligence to return the list of species that are the most likely to be observed at the given location, to classify snake species in images, and to return a ranked list of snake species that are most likely to be corresponding to the images given.

The users can directly interact with the application by uploading the information (images and geographic location) via their web site at a specific address and waiting for their prediction.

## 2. Domains

There will be described the usage scenarios of the application, which hosts the information, and also the user's usage scenarios, which benefits data.

## 3. Actions/Interests

### The application

Provides the users with an online system where they can upload their images and insert the geographic location and shows on the screen the ranked list of species sorted according to the likelihood that they are in the image and might have been observed at that location. Thus, the company achieves its purposed goal.

### The user

Has a large amount of information, and he can access it by uploading the images and inserting the location. In this scenario, only the user is an actual person.

### The admin

His role is to validate if the reports submitted by the user are correctly or was just a wrong answer.

## 4. Actors & Objectives

**The admin:** is the owner of the application, he has the role to validate the reports and delete the wrong uploaded images.

**The user:** having a large amount of information, good prediction based by accuracy, and a user-friendly interface of using it.

## 5. Usage scenarios

### 1. User search data by uploading an image and a location

#### Objective/Context

The user wants to find the prediction of a species from a zone by upload an image with the snake. The user uploads the image and complete the input of the search zone.

#### Scenario/Steps

1. User access the website via link;
2. User uploads a set of images with the snake;
3. User completes the input of the search zone area;
4. User clicks on the search button;
5. The application will compute the result and display it on a new page using a list based on the prediction and the species;

#### Extensions

- If the user doesn't complete all the fields, the search button will be disabled;
- If the user doesn't upload a set of snake images, the application will ask the user to upload a correct set of snake images;

### 2. User report a wrong prediction

#### Objective/Context

After the application returns the results, user can report a wrong prediction if he knows for sure the correct species.

#### Scenario/Steps

1. User inspects the result;
2. User presses the "Report" button;
3. User will be redirected to a new page and completes the input with the reason for the wrong prediction;
4. User send the report;

#### Extensions

- If the user doesn't complete the report message, the "Send" button will be disabled;

### 3. User shares the results

#### Objective/Context

After the application returns the results, and user is satisfied with the prediction, he can share it with others.

#### Scenario/Steps

1. User inspects the result;
2. User press on the “Share” button;
3. User can select the way he wants to share it (e.g. via e-mail, post on Facebook, save as document, etc.);

#### Extensions

- If the user doesn't complete the share process, he will receive a notification of the error;

### 4. Admin login

#### Objective/Context

On an admin page, the admin login into the application to validate the reports.

#### Scenario/Steps

1. Admin open the “Report dashboard” page;
2. Admin login with a valid username and password;

#### Extensions

- If the admin doesn't have an account, he cannot login;
- If the admin is at his first sign in he will create a new password;

### 5. Admin create another admin account

#### Objective/Context

On an admin page, the admin registers into the application.

#### Scenario/Steps

1. Admin login into the application;

2. Admin choose the “Add new admin” page;
3. Admin create a new account with a valid username and a password;
4. Admin click “Submit” the register;

#### **Extensions**

- If the admin choose an existing username he will receive a notification message;

### 6. Admin validate the reports

#### **Objective/Context**

On an admin page, the admin will have a list with all report created and analyze them to validate.

#### **Scenario/Steps**

1. Admin open the “Report dashboard” page;
2. Admin login with a valid username and password;
3. Admin opens a report created by an user;
4. Admin validates the application prediction and the report message;
5. Admin accept the report or decline it based on his experience;

#### **Extensions**

- If the admin doesn’t have an account he cannot login;

### 7. User search snakes in his area

#### **Objective/Context**

On a different application page, a user can search the existing species in his area.

#### **Scenario/Steps**

1. User navigate to “Search near me” page;
2. User can use the device built-in location service or can type into the input his current area;
3. User set the search range from 0 to 100km;
4. User press the “Search” button;
5. The application will display all the species based on the user input;

#### **Extensions**

- If the user doesn’t have the location service active, he will receive a notification message, and will have to type in the location;
- If the user set a small range, or there is no snake species in his range, the application will show an empty state page;