**Use Case Diagram (Fully Dressed)**

A close up of a map

Description generated with high confidence

|  |  |  |
| --- | --- | --- |
| Use Case Name | Capture Image | |
| Scenario | User wants to identify the object | |
| Triggering Event | Object presented | |
| Brief Description | User points the camera to an object and capture the object. | |
| Actors | User | |
| Related Use Cases | None | |
| Preconditions | 1. User should open Spot application. 2. User should allow camera permission. | |
| Postcondition | 1. User had captured an image. | |
| Flow of Activities | Actor | System |
| 1. User presents an object |  |
| 1. User capture an image |  |
|  | 1. Get captured image |
|  | 1. Show captured image |
| Exception Condition | 1. If the user does not allow camera permission. | |

Table 5 - Capture Image (Use Case Diagram Fully Dressed)

|  |  |  |
| --- | --- | --- |
| Use Case Name | Save image to database | |
| Scenario | The system will save the captured image to database | |
| Triggering Event | Get captured image | |
| Brief Description | The system will automatically save captured image to the database | |
| Actors | System | |
| Related Use Cases | None | |
| Preconditions | 1. User should open Spot application. 2. User should capture an image. | |
| Postcondition | 1. Captured image is inserted in the database. | |
| Flow of Activities | Actor | System |
|  | 1. Get captured image |
|  | 1. Save captured image to system database. |
| Exception Condition | 1. If there is no image captured. | |

Table 6 - Save image to database (Use Case Diagram Fully Dressed)

|  |  |  |
| --- | --- | --- |
| Use Case Name | Image Scanning | |
| Scenario | The system will check the image characteristics. | |
| Triggering Event | Image captured | |
| Brief Description | The system’s artificial intelligence will look further the characteristics of the image captured. | |
| Actors | System | |
| Related Use Cases | None | |
| Preconditions | 1. User should open Spot application. 2. User should capture an image. | |
| Postcondition | 1. Image has been scanned. | |
| Flow of Activities | Actor | System |
|  | 1. Get captured image information request |
|  | 1. Scan image |
| Exception Condition | 1. If there is no image captured. | |

Table 7 - Image Scanning (Use Case Diagram Fully Dressed)

|  |  |  |
| --- | --- | --- |
| Use Case Name | Compare image to data image | |
| Scenario | The system will compare image to data images | |
| Triggering Event | Image captured | |
| Brief Description | The system’s artificial intelligence will match the captured image to the sets of data images to identify the object in the image. | |
| Actors | System | |
| Related Use Cases | None | |
| Preconditions | 1. User should open Spot application. 2. Image should be scanned first. | |
| Postcondition | 1. Image match found. | |
| Flow of Activities | Actor | System |
|  | 1. Get scanned image. |
|  | 1. Get data images in database. |
|  | 1. Compare data images to captured image. |
| Exception Condition | 1. If there is no image captured. | |

Table 8 - Compare image to data image (Use Case Diagram Fully Dressed)

|  |  |  |
| --- | --- | --- |
| Use Case Name | Get matched image information | |
| Scenario | The system will get the matched image information. | |
| Triggering Event | Matched image | |
| Brief Description | The system will get matched image information in the system database | |
| Actors | System | |
| Related Use Cases | None | |
| Preconditions | 1. User should open Spot application. 2. Captured image should be matched in one data images. | |
| Postcondition | 1. Matched image information is already gathered. | |
| Flow of Activities | Actor | System |
|  | 1. Get matched image name |
|  | 1. Get matched image information in system database |
|  | 1. Display object information |
| Exception Condition | 1. If there is no image captured. 2. If there is no matched found. | |