Use Case Survey

Actor Summaries

"Customer"

These would be the average users of the system- an individual who wants to compare an image to ones currently existing in the database to either see if the image is original, or to see where the original image came from. They value:

- Ease of use
- Speed
- Accuracy
- Availability

Ease of use: We don't expect people using this program to be versed in computers beyond basic browsing capabilities. We should design the user interface to be accessible by anyone who stumbles upon our website

Speed: I expect any wait times above 5 seconds to cause people to tab out of the site and completely forget they are using it.

Accuracy: If the user wants to see if an image of a cat is original, and they get results that are all dogs, they'll have no faith in our product or algorithms.

Availability: This would also tie in to ease of use, but we need to make sure our product is accessible to people who know about it as well as those who don't.

Technicians

These would be the people maintaining the database(s) the program utilizes. This would most likely be us. In terms of values we would definitely want:

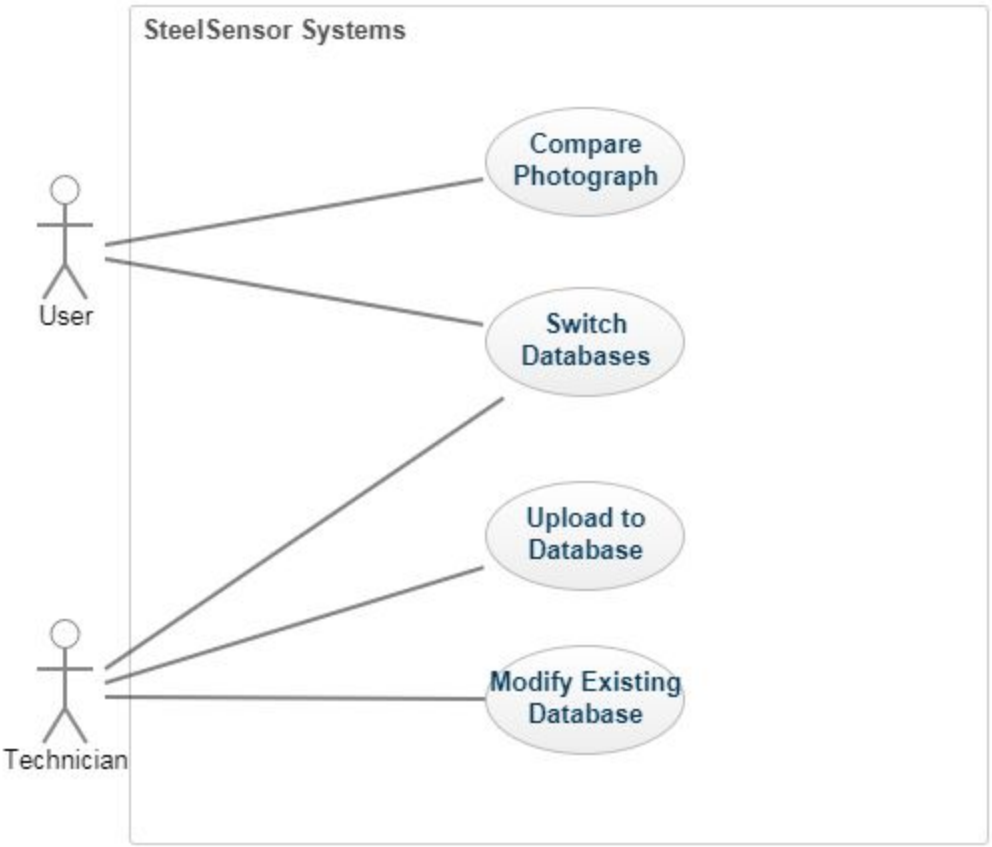
- Security
- Accuracy
- Clear diagnostic messages
- Readability

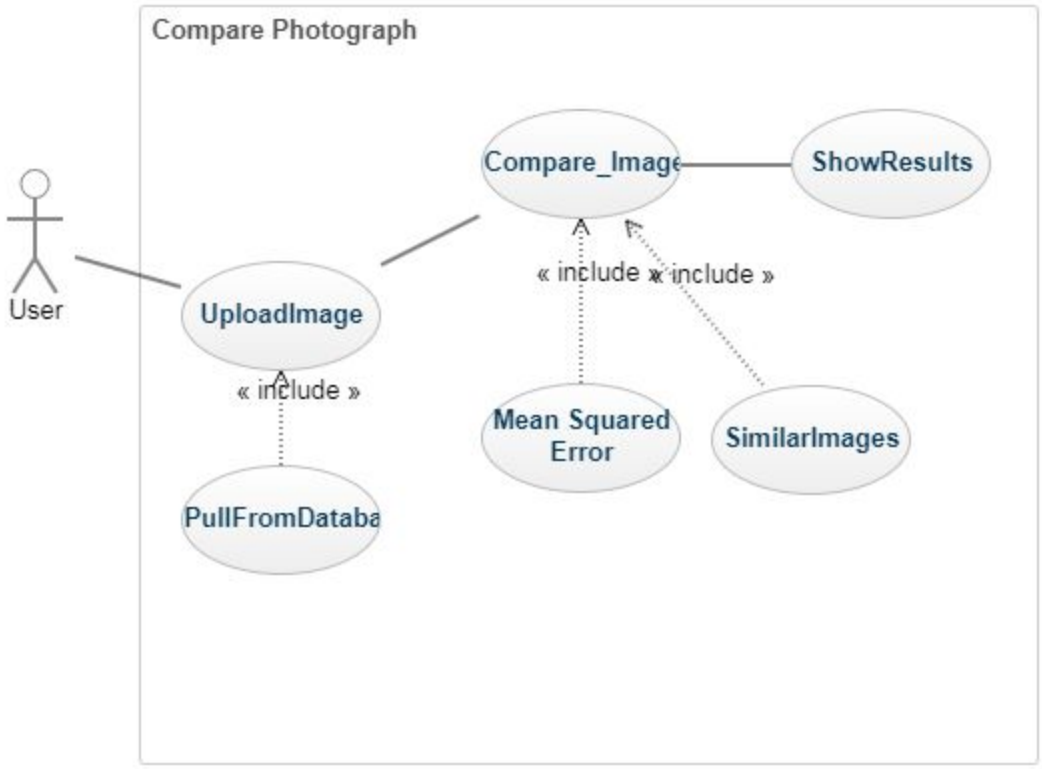
Security: We do not want a user to be able to upload a worm to our website and completely screw our server over.
Accuracy: We still want to ensure that our program works as intended.
Clear Diagnostic Messages: When our server crashes, we want to be able to pinpoint the cause of it.
Readability: When we're pruning the database for repeats, we want to be able to identify redundancies.

Use Case Summaries

Compare Photograph

The goal of this is to let the user see if a photograph is already uploaded to the database. The user will upload an image file of the type .jpg or .png, or will provide the website with an url of an already existing image. The system will then compare the image to files already in the database using the CompareImage algorithm. Images within a 30% margin of error will be pulled into a similar images array. The original and all images in the similar images array will be displayed to the user (as well as the accuracy of each image compared to the original).




Compare Photograph
Compare_Image
ShowResults
User
« include »
« include »
UploadImage
« include »
Mean Squared Error
SimilarImages
PullFromDataba