User Manual

For

Shark Tagging Game

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# 1. Adding new images to the database

## 1.1. From a collection of photos

Upload the photos into some directory on the server. Run the NodeJS script **indexImages.js** on this directory. It will move the photos to the right place and index them in the database.

## 1.2. From a video file

Upload the videos into some directory on the server. Run the python script called **extract.py** with the video files as arguments. The script will extract every frame from the file\*. Run the NodeJS script **indexImages.js** on the directory containing the extracted images. It will move them to the proper directory and index them in the database.

\* The video file must be prepared before uploading it to the server. The uploader must make sure it is cut in such a way that objects of interest are always on the screen. This is because the script has no way of knowing when a video frame doesn’t contain sharks and it can’t skip frames.

# 2. Adding new species to the game

Modify the JSON file in ***android/assets/species.json***. Append new species to the file based on previous entries. IMPORTANT: do not modify existing entries. Doing so will poison the database.

When the modifications have been made, compile the application and re-distribute it to the players.

In the future, the species will be stored in the database, to avoid re-compiling and updating users’ application.

# 3. Playing the game

To play the game, the players need to register with a valid email address. Upon their first play, they are led through a tutorial which explain how to play the game. Once they’re done, they are presented with images of sharks. To tag a shark, they need to create a Tag using the ‘*+’* button, position and resize it using the pink and green handles respectively, and select a species of shark from the selection box. Players are allowed to place as many tags as they want. Once the image has been tagged by them, they press ‘Next’, and the tags are submitted to the server. They are then presented with a new image.