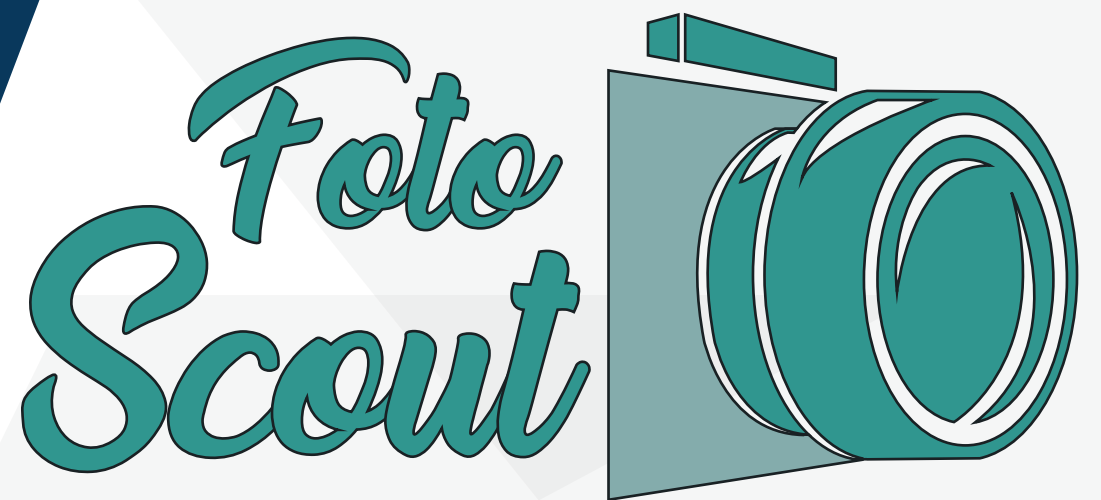


Foto Scout

A web application for researching and planning great photoshoots on location



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ABSTRACT

The web application Foto Scout has been developed to provide assistance to photographers, at any level of expertise to discover ideal spots for shooting photos in a certain location without having to visit there and spend a lot of time and effort looking for them. There are some existing web applications that try to tackle the same problems, but they make use of the photos uploaded to public photo sharing websites only which may or may not have location information on the photos posted. Also they are focused on finding the photos only whereas our application allows users to create groups for discussions so that they can interact with individuals who may have an intricate knowledge of a certain location and can organize photo walks or tours if needed with them. Our systems allows registered users(photographers) to upload their pictures and also specify the locations where they shot those pictures, search photos when given a specific location. The application is currently bilingual (in English and in German) to accommodate more demographics with the possibility of adding more languages in the future. Currently in the application chat can be initiated in a group only but in the future we could add the feature of private chat between members. In future, this project can further be enhanced by adding features like: categorizing photos according to weather conditions, name of the city, or location auto-tagging photos, finding out which camera model was used to shoot a specific photo along with mobile applications for Android and iOS platforms.

FEATURES

- A person can search photos of specific location by typing the name on search bar in homepage or by moving the marker to the desired location on the world map
- A person can select the categories that they want to filter the search results based on along with specifying the radius of the search area
- A person can set the desired language for the application, either in English or German
- A person can register on the system and then login to make use of features available only for registered users
- Registered users can make changes to their profile information after logging in
- Registered users can share their photos and geotag them on a location adding appropriate description and categories
- Registered users can view all the images that they have uploaded and can make edits to the description, categories and location information if necessary or even delete their own image
- Registered users can send likes to photos uploaded by themselves or by other members and even remove the likes on images that they had already liked
- Registered users can create, update and delete a discussion group
- Registered users can join and leave a group created by other users
- Registered users can chat with other members on the groups that they created or have joined

TECHNOLOGIES

Front-end

- VueJS
- Vuex
- Bootstrap
- BootstrapVue
- Axios
- Webpack
- Google Maps

Back-end

- NodeJS
- Express
- MongoDB
- Mongoose
- socket.io

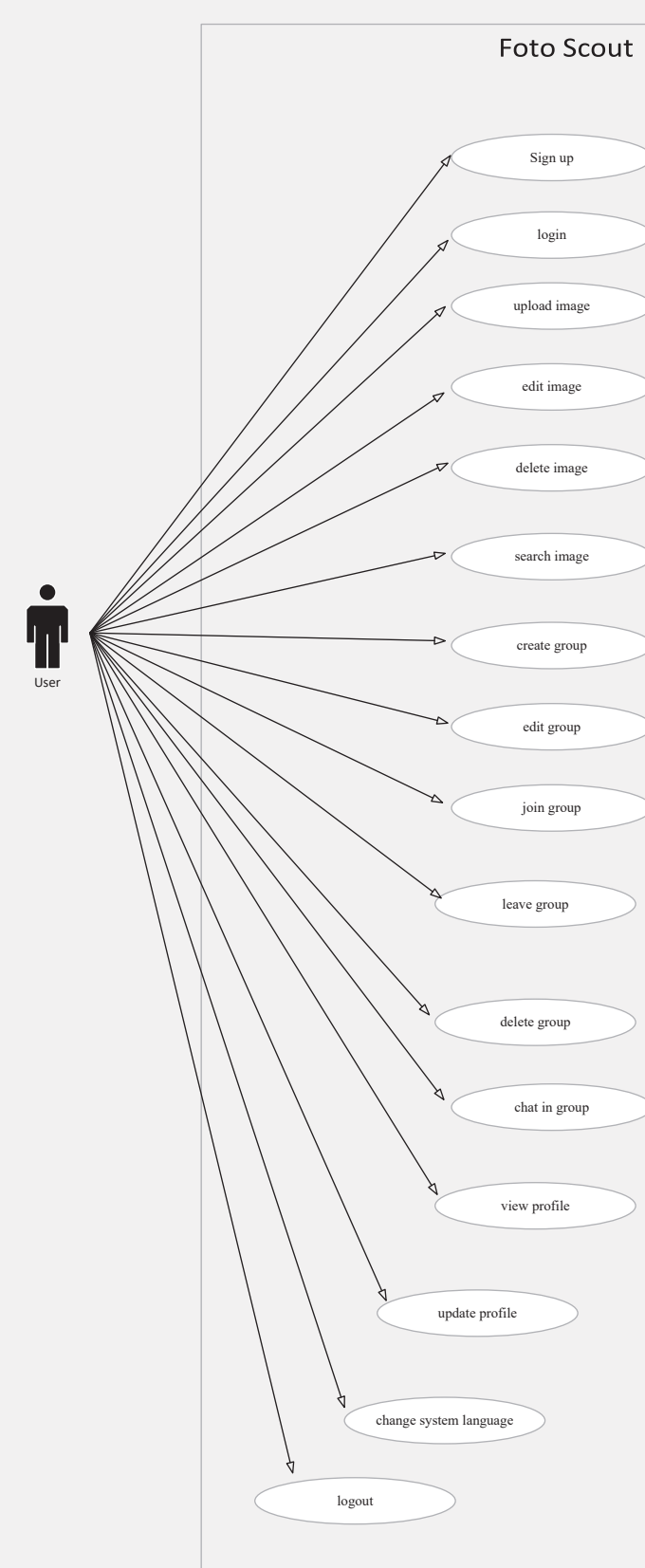
LIMITATIONS

- Server response messages are available only in English
- Private chat not implemented
- Unable to view other user's profile
- Commenting on images not implemented
- No superuser (administrator) for moderating the image uploads

INTRODUCTION

Foto Scout is a single-page bilingual web application intended for photographers to allow them to search for specific locations and get image search results near that location. This application aims to provide photographers with the ability to perform the location scouting from the comfort of their home so that they can just focus on taking phenomenal photos once they are on their desired location. Most of the time, photographers find it quite difficult to jump into a location to take pictures because of no prior information about the location; and it also takes a lot of time to first go there and then explore the location. Nevertheless, internet has made it easier and they always have a tool in hand to explore their desired location, sitting at home, sipping their favorite coffee. As a motive of helping professional and aspiring photographers, Foto Scout provides beforehand know-tos so that photographers can select their locations and accordingly plan their photography projects or assignments. Foto Scout allows photographers to search for the locations, register for a Foto Scout account, upload their photos after having successfully created Foto Scout account, in spite of querying from other photo upload sites such 500px, Flickr, etc. and also allows users to communicate about photos description.

USE CASE



CONCLUSION

In conclusion, almost all of the features that we had originally intended for this project have been completed. If we had more time and resources, we could have added some more features such as community based photo categorizations, adding locations to personal collection, categorizing photos based on weather condition, rewarding best photos by organizing photography contests, adding admin users to moderate photo uploads. We could also add feature of a user being assigned as a guide for a certain location so that they can be contacted in case of queries regarding a certain location. In the future it is also possible to create iOS and Android applications for Foto Scout.

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