Retrospective Document
Sprint-1

Work & Test Progress

Milestones:
1. Caffe Server Construction - %100
2. Improving design, code and performance in Android - %100
3. Constituting the Most Effective Feature-Vector for Leaf Detection - %100

Finalized Tests as Part of the Milestones Planned for this Sprint:
- Multiple Users - Single Image Identification Test is applied to the server.
- Single User - Multiple Image Identification Test is applied to the server.
- Background Elimination codes are tested.
- The algorithm of image-processing code is completed, integrated, tested.
- Multiclass classification experiments are performed on different combinations of test-training sets and feature vectors using Matlab SVM library.
- Android application design has been tested by supervisor and team leader.
- Application performance is tested and it is increased.

Team Progress

So far so good.

Left-overs (Backlog)

All milestones are completed successfully in this sprint.

Next Sprint

Milestone #1: Development of Our Own Neural Network for Classification
During the sprint:
> A Neural Network (NN) will be designed and implemented.
> And it will be trained&tested.
At the end of the sprint:
> We will have a NN along with other classification methods of ours. We will use it for the classification of species that we have.

Milestone #2: Deploying Full Client-Server Architecture
During the sprint:
> Current Client structure will be implemented on Android side.
> Caffe Tree Identification Server - Android Device communication will be established.
> Multiple Android devices will be used for testing in local area network.
> “tree_identification_v4.caffemodel” will be released.
At the end of the sprint:

> Caffe Tree Identification Server, which works successfully in local area network, with full Android device communication support will be ready.

**Milestone #3: Translation of Image Processing Codes and Algorithms to Python Language**

During the sprint:

> Python language with OpenCV library will be learned.
> Background elimination algorithm will be implemented in Python language.
> Feature extraction algorithm will be implemented in Python language.

At the end of the sprint:

> Background elimination and feature extraction algorithms will be ready to combine them with the other parts of the project.

**Milestone #4: Developing friendly user guide tutorial for Android application and fixing some bugs**

During the sprint:

> How to design and implement user guide tutorial will be searched.
> User guide tutorial will be implemented scene-by-scene.
> Some existing bugs will be fixed.

At the end of the sprint:

> Well designed and friendly user guide tutorial will be ready to use, and some bugs exist in application will be fixed.

**Comments**

*It was a perfect sprint for our team.*

**Assistant’s Evaluation**

Assistant’s (Team Leader’s) comments regarding to this completed sprint.
Supervisors’s Evaluation

*Supervisor’s (Team Leader’s) comments regarding to this completed sprint.*