Retrospective Document
Sprint-<#1>

Work & Test Progress

List the milestones planned for this sprint along with their completion percentages.
(Please do not list the details of workpackages/tasks.)

Milestone 1 : Sprint 1 - Image Matching (%95)
Milestone 2 : Sprint 1 – Operator (%95)

List the tests finalized as part of the milestones planned for this sprint.

Milestone 1 :
Template Matching, FLANN, Sift and Sikuli tools are tested but they didn't give successful results. Machine Learning algorithm which uses sift, k-means and SVM is tested. Results are more reliable.

Milestone 2 :
GUI for Operator: Operator can create new usecases according to the new measurement device and new components into related usecases as many as operator wants. All information given to the UI is stored in a txt file for further processing. Operator can see and choose components already implemented during the implementation of the new device. Positive and negative image set can be chosen and copied to the related folders. Operator can finalize the implementation and create a zip file in order to upload to the server.

Server for Operator – User Communication: Server is configured. Operator can upload a file to the server. User can receive the uploaded file from server.

Team Progress

List the team members along with their contribution percentages.
We think that contribution in the team was fair and approximately equal.
Sinan Sarıoğlu (%25)
Sevim Begüm Sözer (%25)
Mert Ünsal (%25)
Öykü Özlem Çakal (%25)

Left-overs (Backlog)

List the milestone(s) that could not be 100% completed in this sprint. Give your reasons for the incomplete milestone(s).

Milestone 1 - Image Matching:
First two weeks of the first sprint, we spend our time to implement image-matching script, which includes Sift and FLANN algorithms. Results are perfect only if it is tested with a complete image and a cropped part of the same image. However when it is tested with two different images, results are not as reliable as former ones. Hence it's not suitable for our project.

With our assistant's suggestion we started to work with machine learning algorithm, which includes also sift. Since we started at last week of the sprint, we couldn't have time to try it with large amount of samples. However the tried one up to now give correct results. Because of this reason we can't state that this milestone %100 completed. In addition to what we stated, this milestone is the core of image matching part of the project, so with every new device this

algorithm will be tested. Some preprocessing may be needed according to faced failures in future.

Milestone 2 – Auto patch:
We have some leftovers on Auto patch part of the milestone. We have decided that our priority is insertions to the version. Therefore, we shifted deletion and update operations to upcoming sprint. (We may not need those operations)

Next Sprint

List the milestone(s) that will be targeted in the next sprint.

Milestone 3 : Sprint 2 – Image CORE
- Machine Learning Testing
- OCR

Milestone 4 : Sprint 2 – System CORE
- Prepare the system for integration with Image part
- Developing Autopatch
- Improve Operator and User GUI

Comments

Your comments (if any) regarding to this completed sprint.

Our system has changed after our first semester demo. We needed to change our method in Image part. Accordingly GUI part is changed as well. This caused some problems and new research, which took a lot time in this sprint. However, currently we have decided our new path for the system. Progress will be more efficient in the upcoming sprints.

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.