

**Sprint Evaluation**

**What is the progress of your project in this sprint? What goals are achieved? What problems are overcome? If you are updating your plans what are your justifications?**

For this semester, we decided to implement only one use case which is "cable checking part" for demo. For this particular use case, we progressed on UI and image processing.

The following information is given according to the new version of startup document which you can find on OpenProject:

In this sprint we did not have to work on the T15 because we finished this task, which is separating the measurement device into 3 parts, in sprint 2. For the image processing part, in this sprint, we achieved two tasks. One of them is taking the cable part from the whole measurement device image and checking for the cable locations (T16). The second one is taking the switch rotary part and checking if the arrow shows the correct location for the task (T17). We started to learn how to apply OCR with OpenCv (T18). Also we managed to detect measurement device regardless of its position as long as the device stands vertically (T9).

In the UI part, we integrated UI with JavaFX with the decision we took in Sprint 2. Template for screen switches and first draft of UI are prepared (T6-T8). We developed the necessary screens for demo show.

Moreover, we prepared the website of the project (T19), presentation(T21) and started working on SRS(T20).

A screenshot from OpenProject timeline for Sprint3 is on the last page of this document.

**Team evaluation**

**How well your is team working together? How many meetings did you hold? Are you planning any changes in your cooperation strategy? Which work is completed by which member (in a Gantt chart)?**

For the branches of the project, we kept the responsibilities same. Oyku Ozlem Cakal and Mert Unsal are responsible from UI while Sevim Begum Sozer and Sinan Sarioglu are responsible from Image Processing. We have a meeting every week among the group members. To keep the communication strong with the consultant company, we sent our timeline and work packages to them and had a meeting on which we presented what we have done until now.

Task	Assigned Member	1 <sup>st</sup> week	2 <sup>nd</sup> week	3 <sup>rd</sup> week
Detect MD (T9), Cable Checking (T16), SwitchRotary checking (T17), Apply OCR (T18), Presentation (T21), Presentation (D6)	Sevim Begüm Sözer	T9	T16, T17	T17, T18, T21, D6
UI Flow (T6), UI first draft (T8), SRS (T20), Presentation (T21), Presentation (D6), First draft of UI (D4)	Öykü Özlem Çakal	T6	T8, D4	T20, T21, D6
UI Flow (T6), Web page of project (D5), Web Page of Project (T19), Presentation (T21), Presentation (D6)	Mert Ünsal	T6	T19	D5, T21, D6
Detect MD (T9), Apply OCR (T18), SRS (T20), Presentation (T21), Presentation (D6), Cpp Integration (T22)	Sinan Sarioglu	T9	T18, T22	T18, T20, T21, D6

### Backlog Updates

#### What are your backlog updates?

We were planning to apply image matching on Cable and SwitchRotary parts with the desired attributes from our database with the shooted picture. However we faced with some problems because of the image format. While making a research about how to change the colors and fix the size and the angle of the separated parts, we found that checking the exact locations is easier so we changed tasks T16 and T17. Instead of T16 format check and T17 image matching we opened two new tasks. New T16 is cable checking task, T17 is SwitchRotary checking task.

### Timeline of Sprint3

- + Sprint 2
- + startup document update according to...
- + Webcam Image Quality Problem - Research
- ▼ + Cable Matching For Voltage measurement...
  - + Testing
- + Timeline of Measure Guide system...
- ▼ + Measure Guide Website
  - + Website Content and Materials
  - + Website Design
  - + Website Design v.1.1
- + Checking the switch rotary position for...
- ▼ + Integrating CPP file into a JAVA file
  - + Write back to file with openCV
- + Presentation
- + SRS document of project
- + Integration of all Image Processing...
- ▼ + More Developments on UI
  - + Screens For Demo (Cable Checking Part)
- + OCR
- + UI Integration
- + Sprint 3

