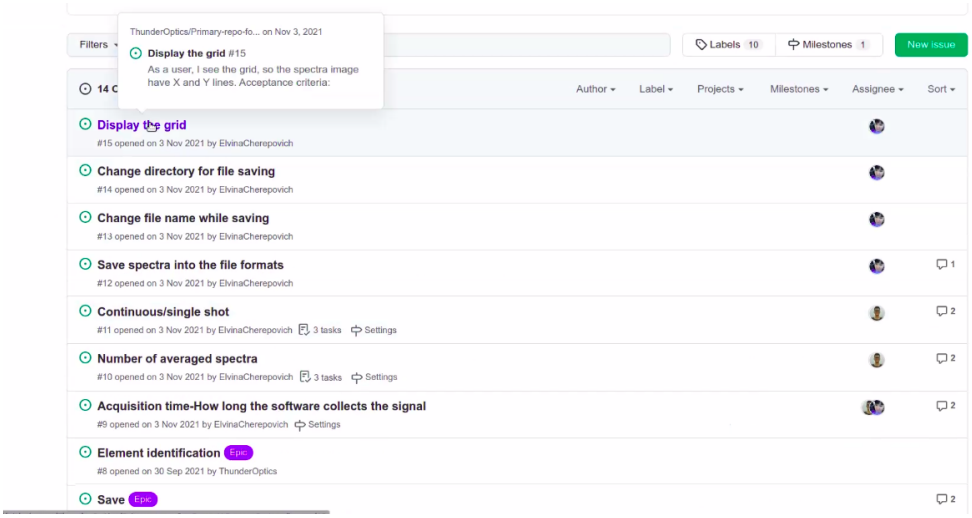
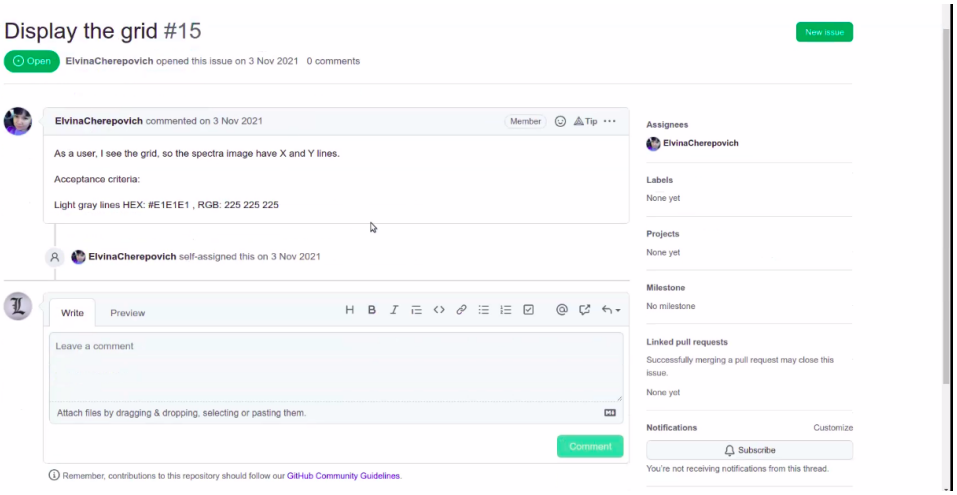
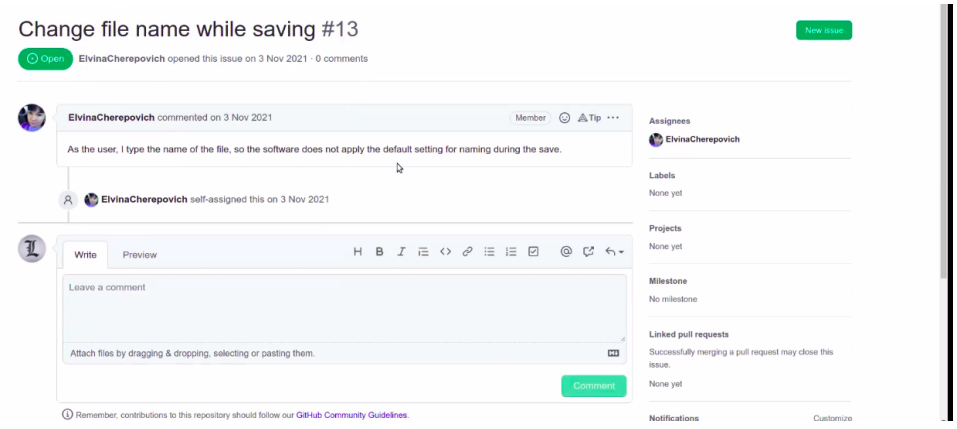
Features to include in GUI:







Save spectra into the file formats #12

New issue

Open **ElvinaCherepovich** opened this issue on 3 Nov 2021 · 1 comment

ElvinaCherepovich commented on 3 Nov 2021 — Member

As the user, I choose the format to save, so the software saves spectra into the file of a specific format.

Acceptance criteria:

File formats: excel, dat, pdf.
The default folder is Documents/Spectra
The default name of the file is DDMMYYYY-N+1. N - is incremental.

ElvinaCherepovich self-assigned this on 3 Nov 2021

ElvinaCherepovich mentioned this issue on 3 Nov 2021
Change directory for file saving #14 Open

pm1606 commented on 10 Nov 2021 — Member

in progress

Assignees: ElvinaCherepovich
Labels: None yet
Projects: None yet
Milestone: No milestone
Linked pull requests: Successfully merging a pull request may close this issue. None yet
Notifications: Customize — Subscribe

Continuous/single shot #11

New issue

Open 3 tasks **ElvinaCherepovich** opened this issue on 3 Nov 2021 · 2 comments

ElvinaCherepovich commented on 3 Nov 2021 — Member Tip

This parameter includes two user stories:

1. As the user, I set the parameter "Continuous" shot, so the software takes spectra nonstop with default intervals.
2. As the user, I set the parameter "Single" shot, so the software takes spectra one time.

Acceptance Criteria:

- [ ] The default value is a Single shot.
- [ ] Software delete a previous shot.
- [ ] The interval for continuous mode is 250ms and cannot be changed.

Consideration:

- Continuous mode allows seeing changes of spectra in real-time if the user changes the intensity of a light source, plays with other settings like acquisition time, and so on.

ElvinaCherepovich added this to the **Settings** milestone on 3 Nov 2021

ElvinaCherepovich assigned **pm1606** on 3 Nov 2021

pm1606 commented on 5 Nov 2021 — Member Tip

in progess

Assignees: pm1606
Labels: None yet
Projects: None yet
Milestone:
Settings:
Linked pull requests: Successfully merging a pull request may close this issue. None yet
Notifications: Customize — Subscribe — You're not receiving notifications from this thread.
2 participants

Acquisition time-How long the software collects the signal #9

New issue

Open **ElvinaCherepovich** opened this issue on 3 Nov 2021 · 2 comments

ElvinaCherepovich commented on 3 Nov 2021 • edited — Member

As the user, I set the acquisition time, so during this time, the spectrometer acquires a signal (collect light)

Acceptance Criteria:

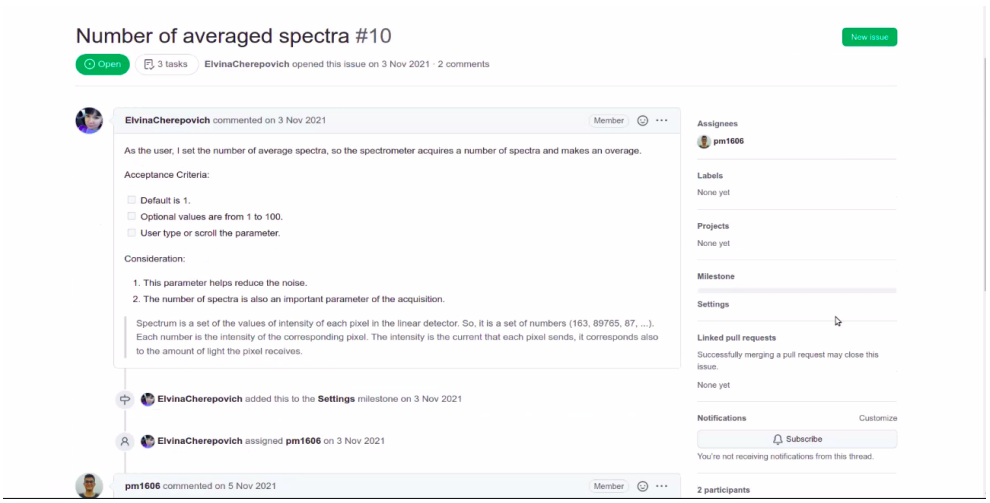
1. Default parameter is 100ms.
2. Each step increases or decreases the parameter to 100ms.
3. Unit is ms (milliseconds) until it reaches 900ms.
4. Unit is s (seconds) if the value is more than 900ms s (seconds).
5. Parameters are from 100ms to 10s.
6. Parameters can be scrolled with the mouse.

Considerations:

1. This parameter defines how intense will be the detected signal.
2. 1 s = 1000ms.
3. Unit is ms (milliseconds) until it reaches 1000ms.
4. Unit is s (seconds) if the value is more than 900ms s (seconds).
5.

ElvinaCherepovich added this to the **Settings** milestone on 3 Nov 2021

Assignees: ElvinaCherepovich, pm1606
Labels: None yet
Projects: None yet
Milestone:
Settings:
Linked pull requests: Successfully merging a pull request may close this issue. None yet
Notifications: Customize — Subscribe


Number of averaged spectra #10
New issue
Open
3 tasks
ElvinaCherepovich opened this issue on 3 Nov 2021 · 2 comments
ElvinaCherepovich commented on 3 Nov 2021
Member
As the user, I set the number of average spectra, so the spectrometer acquires a number of spectra and makes an overage.
Acceptance Criteria:
Default is 1.
Optional values are from 1 to 100.
User type or scroll the parameter.
Consideration:
1. This parameter helps reduce the noise.
2. The number of spectra is also an important parameter of the acquisition.
Spectrum is a set of the values of intensity of each pixel in the linear detector. So, it is a set of numbers (163, 89765, 87, ...). Each number is the intensity of the corresponding pixel. The intensity is the current that each pixel sends, it corresponds also to the amount of light the pixel receives.
ElvinaCherepovich added this to the Settings milestone on 3 Nov 2021
ElvinaCherepovich assigned pm1606 on 3 Nov 2021
pm1606 commented on 5 Nov 2021
Member
Assignees
pm1606
Labels
None yet
Projects
None yet
Milestone
Settings
Linked pull requests
Successfully merging a pull request may close this issue.
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Subscribe
You're not receiving notifications from this thread.
2 participants