

Event Display

Users survey

Introduction

Users survey was conducted to focus further development of the Event Display on features which users need.

- questions were sent to **alice-off** mailing list
- survey have been conducted in **February 2015**
- **8 persons** replied
- some people were using ED long time ago and some comments are outdated - I present all of them

Event Display is no longer divided into Online and Offline parts.

Questions

Who is using ED?

Which features
are unnecessary?

ED's appearance

Which features have
you been using?

What features are
missing in ED?

Other suggestions

Who uses Event Display? And why?

developers of different parts of Event Display (HLT, MUON)

to understand and debug subtle problems (f.e. very different SPD and track vertices)

browsing events to understand what situations can be met during analysis

looking for noise

cross-checking correctness of reconstruction programs (!)

check hits position on SDD for geometry check

produce images/videos for conferences or wide public, outreach

to illustrate angular correlations

to display events - for physics, fun and education of students

analysis of cosmics

Which features are being used?

looking at events

browsing events

track cuts

turning on/off tracks, hits, digits

loading custom macros

ALL OF THEM

selecting tracks, printing their parameters

inspecting clusters in subdetectors independent of tracks

recording events and playing them in a loop

saving screenshots

Which features should be removed?

none

none

none

The thousands of errors during loading

No answer

Every feature could be useful

Hard to say

What features should be added?

First make it
work at all

multiple windows
with different events
in each

reliability and
simplicity at startup

easy access to specific,
recorded event

Make it work
on Mac OS

save all tracks
in 3D to simple
file format (txt)

documentation
would be useful

changing run
without exiting

fix MUON tracks -
they look broken

connect to online data
stream + raw data in 3D

How do you find ED's appearance?

it's ok
for me

it looked not so
bad in the past

it's clear
enough

The times I used it
looked nice and neat

I have no special aesthetic
considerations to suggest

Other suggestions

simple initialisation

I had problems displaying PbPb, while pp worked fine

it crashes more often than it works

I would need a version that is working

clear instructions + tutorial

quick make of propaganda pictures of first collisions

more extended and detailed examples for MC and data

simple macro to get events from HLT data stream

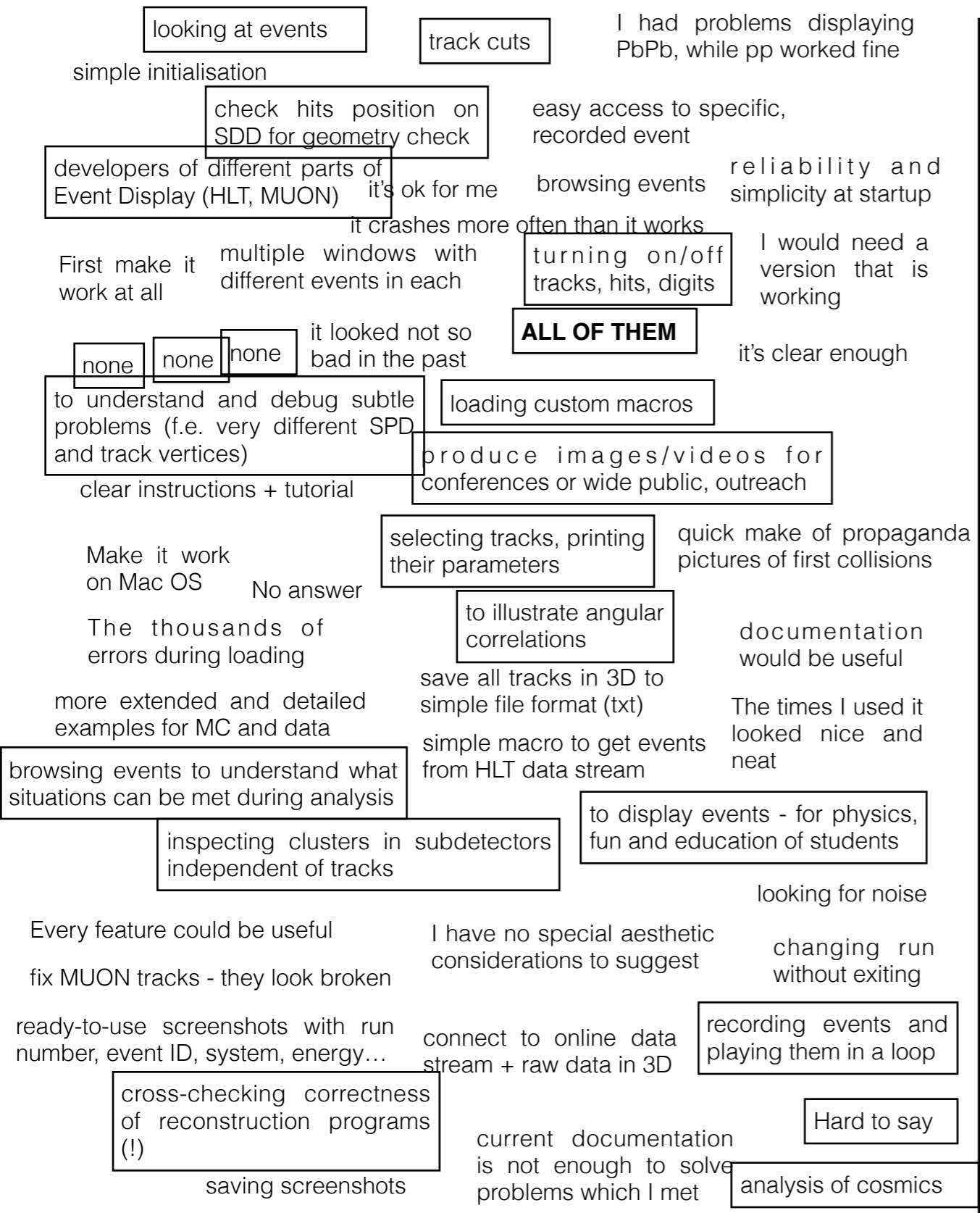
ready-to-use screenshots with run number, event ID, system, energy...

current documentation is not enough to solve problems which I met

All requests + solutions

looking at events	track cuts	I had problems displaying PbPb, while pp worked fine
simple initialisation		
check hits position on SDD for geometry check	easy access to specific, recorded event	
developers of different parts of Event Display (HLT, MUON)	it's ok for me	browsing events
	reliability and simplicity at startup	
First make it work at all	multiple windows with different events in each	it crashes more often than it works
	turning on/off tracks, hits, digits	I would need a version that is working
none	none	none
it looked not so bad in the past	ALL OF THEM	it's clear enough
to understand and debug subtle problems (f.e. very different SPD and track vertices)	loading custom macros	
clear instructions + tutorial	produce images/videos for conferences or wide public, outreach	
Make it work on Mac OS	selecting tracks, printing their parameters	quick make of propaganda pictures of first collisions
No answer		
The thousands of errors during loading	to illustrate angular correlations	documentation would be useful
more extended and detailed examples for MC and data	save all tracks in 3D to simple file format (txt)	The times I used it looked nice and neat
browsing events to understand what situations can be met during analysis	simple macro to get events from HLT data stream	
inspecting clusters in independent of tracks	subdetectors	to display events - for physics, fun and education of students
		looking for noise
Every feature could be useful	I have no special aesthetic considerations to suggest	changing run without exiting
fix MUON tracks - they look broken		
ready-to-use screenshots with run number, event ID, system, energy...	connect to online data stream + raw data in 3D	recording events and playing them in a loop
cross-checking correctness of reconstruction programs (!)		Hard to say
saving screenshots	current documentation is not enough to solve problems which I met	analysis of cosmics

All requests + solutions



✓ don't remove any features

All requests + solutions

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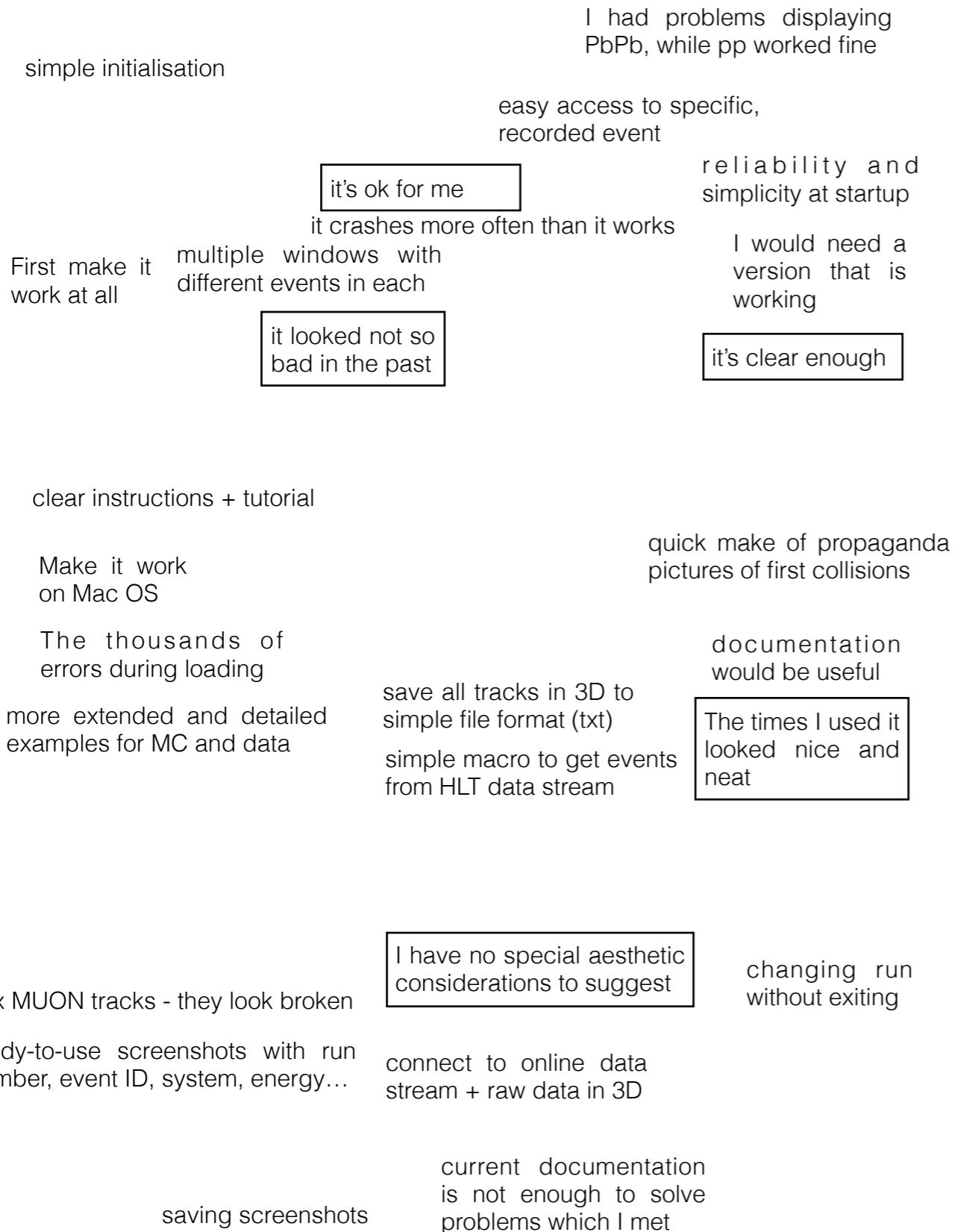
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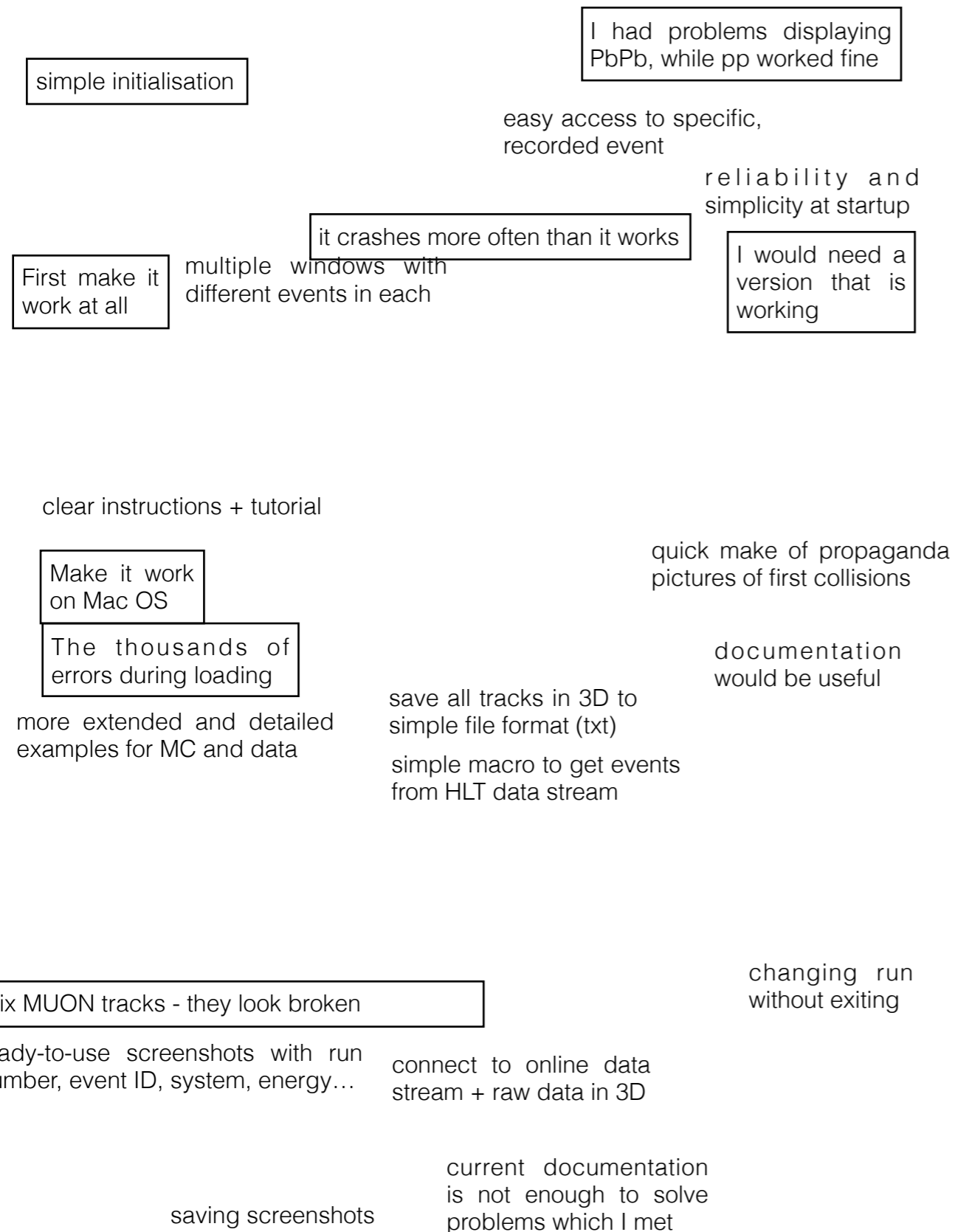
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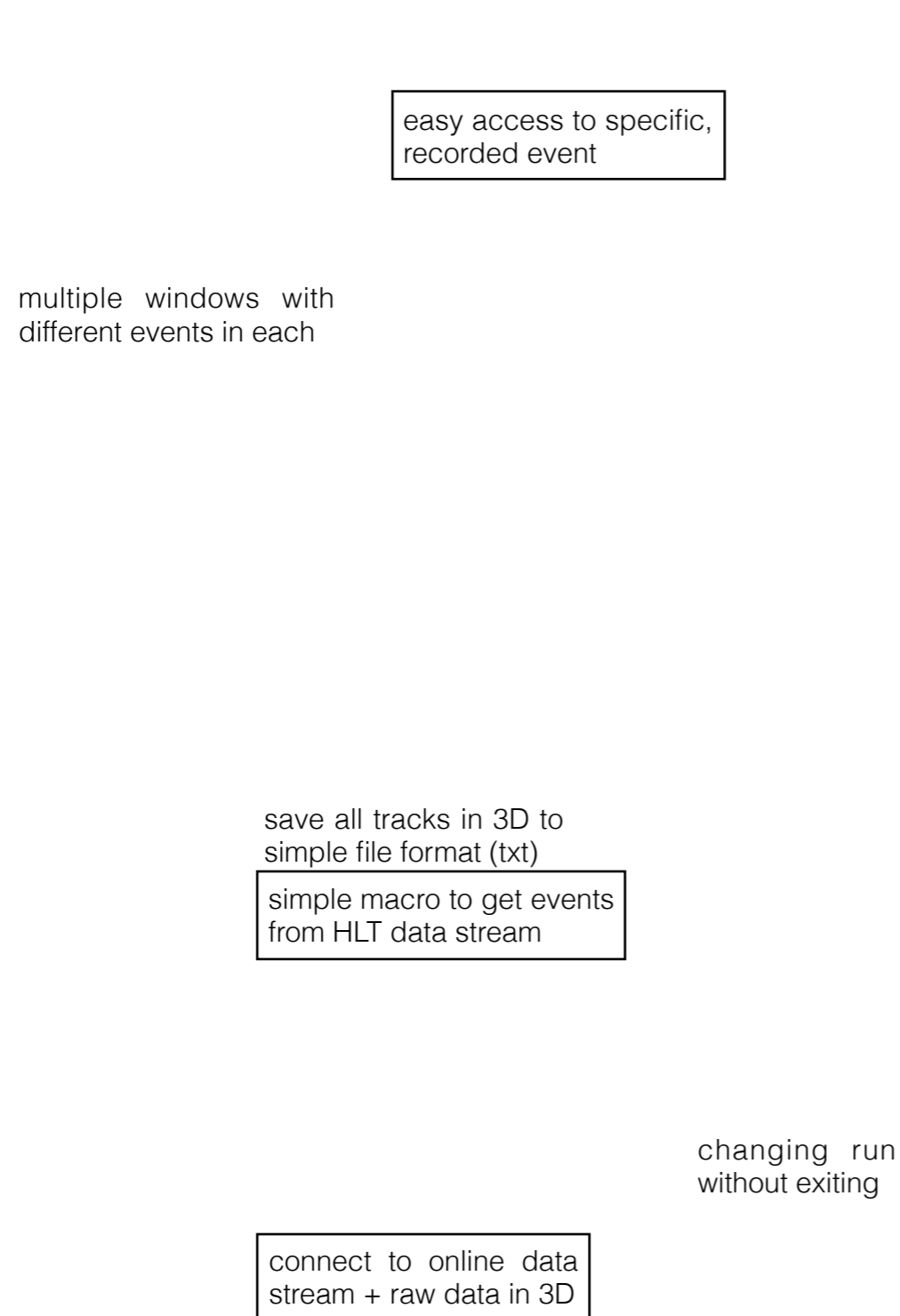
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- ✓ introduce Storage Manager

All requests + solutions

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- ✓ introduce translator ESD->xml

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- ✓ introduce translator ESD->xml
- ✓ add possibility to change run without restarting ED

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- ✓ add possibility to change run without restarting ED
- ✓ allow displaying many events at the same time

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Summary

Done:

- ✓ don't remove any features
- ✓ don't spend time on ED's appearance
- ✓ fix bugs, make it reliable and stable on different platforms, fix initialisation.
- ✓ introduce Storage Manager

Ongoing:

- ↻ fix bugs
- ↻ introduce translator ESD->xml
- ↻ write good documentation

To be done:

- ➔ focus on exporting screenshots
- ➔ add possibility to change run without restarting ED
- ➔ allow displaying many events at the same time

Thank you very much
for taking part in this survey!

Every single response was very helpful!