

Klever - Feature #9412

Support more advanced calculation of total verdicts and similarity

12/12/2018 01:00 PM - Ilja Zakharov

Status:	Closed	Start date:	12/12/2018
Priority:	Urgent	Due date:	07/10/2019
Assignee:	Vladimir Gratinskiy	% Done:	100%
Category:	Bridge	Estimated time:	0.00 hour
Target version:	3.0		
Published in build:			

Description

The primary expert evaluation workflow should look as follows:

1. Imagine there is no associated marks for a given report (Unsafe/Safe/Unknown).
2. The expert needs to create a new mark.
3. It becomes confirmed automatically for a given report and may be associated automatically with some other reports.
4. Then the expert proceeds to a next report.
5. If there is no associated marks, the expert should do the same (1-3).
6. If there are some automatically associated marks and the expert finds one or more of them appropriate, the expert should confirm corresponding associations.
7. Otherwise, the expert must create a new mark like in previous use cases (1-3, 5).

In any case there will be at least one confirmed association (in ideal, there should be the only confirmed association) for each report. And if there are confirmed associations, Bridge should not treat automatically associated marks when calculating total verdict and total similarity. If there is no confirmed associations, Bridge should behave as it does now.

PS: Let's exclude associations with 0% similarity from calculating total verdicts and similarity (inspired by [#9413](#)). This will improve a picture for automatically associated marks a bit since there will be less incompatible marks. But in general this will not help while the primary suggested feature will do. The pitfall may be confirmed associations with 0% similarity as it should be both used and not used in calculating total values according with various rules. I can hardly imagine cases when one will need to confirm associations with 0% similarity, but let's respect manual efforts (confirmation) first of all. So, let's calculate total values for confirmed associations with 0% similarity.

PPS: Let's exclude total similarity at all as like some other totals it is ambiguous. Some people likes one its semantics, other people prefers another one. But nobody will suffer much if there will be no total similarity at all since it is primarily useful just when considering particular error traces and their associated marks.

PPPS: I suggest to allow for mark authors to disable further mark changes. This will disable the only case (removing marks or changing them considerably) when somebody can affect evaluation of verification results made by mark authors. Of course, this does not include 3rd party marks which associations are confirmed.

Related issues:

Related to Klever - Feature #8335: Similarity management	Closed	08/11/2017	07/11/2019
Related to Klever - Feature #8338: Add ability to specify similarity threshold	Closed	08/11/2017	07/02/2019
Has duplicate Klever - Feature #9413: Set total verdict and total similarity ...	Rejected	12/12/2018	

History

#1 - 12/12/2018 01:43 PM - Ilja Zakharov

- Related to Feature #9413: Set total verdict and total similarity more precisely on base of automatic marks association added

#2 - 12/12/2018 03:46 PM - Evgeny Novikov

Indeed, I dislike the suggested approach as it contradicts the primary workflow. Nobody prevents you to unconfirm new associatead marks - this way suits well the primary workflow. But I agree that often one is too lazy to do such the job.

I already suggested another way to reach the same result using other means. These means include protecting jobs from associations with all existing marks. So, you will need to create marks for all reports of protected jobs, and nobody will be able to affect your evaluation. One another mean to reach this is ability to freeze marks by their authors. Note that this use case forbids other issues, e.g. when you confirm some associations, but then one will change associated marks, your confirmations will be cancelled.

#3 - 12/12/2018 05:56 PM - Evgeny Novikov

We discussed this issue more. Now I agree that the improvement suggested by Ilja is good. So, the primary workflow will look as follows. Imagine there is no associated marks for a given error trace. You create a new mark. It becomes confirmed automatically. Then you go to a next error trace. If there is no associated marks, you should do the same. If there are some automatically associated marks and you find one of them appropriate, you should confirm a corresponding association. Otherwise, you will create a new mark like in previous use cases. In any case there will be at least one confirmed association (in ideal, there should be the only confirmed association). And if there are confirmed associations, Bridge should not treat automatically associated marks when calculating total verdict and total similarity. If there is no confirmed associations, Bridge should behave as it does now.

#4 - 12/13/2018 10:58 AM - Pavel Andrianov

I support the issue: incompatible marks are very distractive. One minor comment is that several confirmed associations may be present. This is not a general case, when we want to emphasize several marks as confirmed, but Bridge should not fail in this case.

#5 - 12/13/2018 11:25 AM - Evgeny Novikov

Pavel Andrianov wrote:

I support the issue: incompatible marks are very distractive. One minor comment is that several confirmed associations may be present. This is not a general case, when we want to emphasize several marks as confirmed, but Bridge should not fail in this case.

Bridge should not fail in any case. I also specified that there will be at least one confirmed association for each report. But there may be more ones. Perhaps, it is important to note, that in case when there are several confirmed associations Bridge should calculate total verdicts and similarity like when there are several automatic associations without confirmed ones.

#6 - 12/14/2018 03:30 PM - Evgeny Novikov

- Description updated

- Subject changed from *Do not consider an error trace with manual confirmations as "incompatible marks"* to *Support more advanced calculation of total verdicts and similarity*

#7 - 12/14/2018 03:31 PM - Evgeny Novikov

- Related to deleted (Feature #9413: *Set total verdict and total similarity more precisely on base of automatic marks association*)

#8 - 12/14/2018 03:31 PM - Evgeny Novikov

- Has duplicate Feature #9413: *Set total verdict and total similarity more precisely on base of automatic marks association added*

#9 - 12/14/2018 03:33 PM - Evgeny Novikov

- Related to Feature #8335: *Similarity management added*

#10 - 12/14/2018 03:34 PM - Evgeny Novikov

- Related to Feature #8338: *Add ability to specify similarity threshold added*

#11 - 12/17/2018 09:29 AM - Evgeny Novikov

- Description updated

#12 - 12/17/2018 10:39 PM - Evgeny Novikov

- Description updated

#13 - 07/02/2019 11:45 AM - Vladimir Gratinskiy

PPPS: I suggest to allow for mark authors to disable further mark changes.

Who is the author of a mark - the user created the first version or the last change author?

#14 - 07/02/2019 06:03 PM - Evgeny Novikov

Vladimir Gratinskiy wrote:

PPPS: I suggest to allow for mark authors to disable further mark changes.

Who is the author of a mark - the user created the first version or the last change author?

I think the former is much better.

#15 - 07/10/2019 04:40 PM - Vladimir Gratinskiy

- % Done changed from 0 to 100
- Status changed from New to Resolved
- Due date set to 07/10/2019

Implemented in bridge-3.0.

- 1) 0% similarity will be excluded from total verdict calculation if mark threshold is greater than 0%. Otherwise it will be excluded if there is already another confirmed mark. I've added new column and its filter for associations table "is associated", that shows if mark association is used in total verdict calculation.
- 2) "total similzrity" was deleted from everywhere.
- 3) Now not only managers, but mark authors also can freeze their marks.

#16 - 01/16/2020 05:20 PM - Evgeny Novikov

- Status changed from Resolved to Closed

In master.