Review Board Read Marker Add-on
Final Presentation 

Team 17

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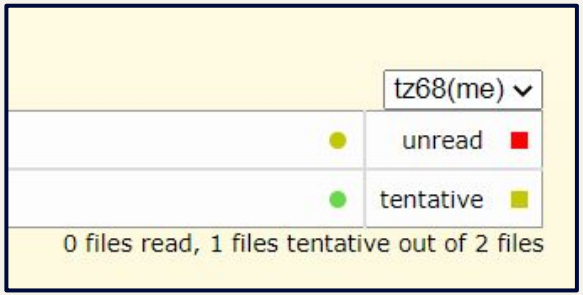
01

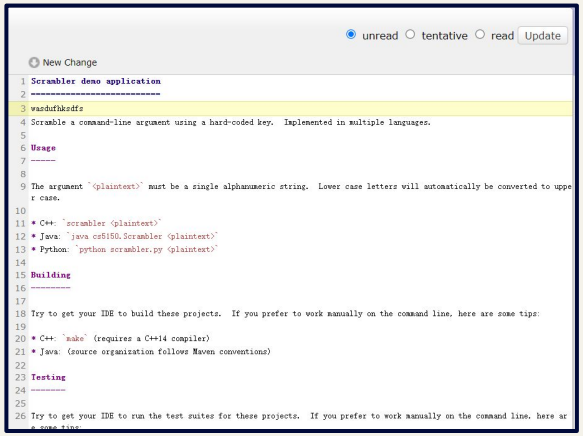
PROJECT OVERVIEW

PROJECT OVERVIEW

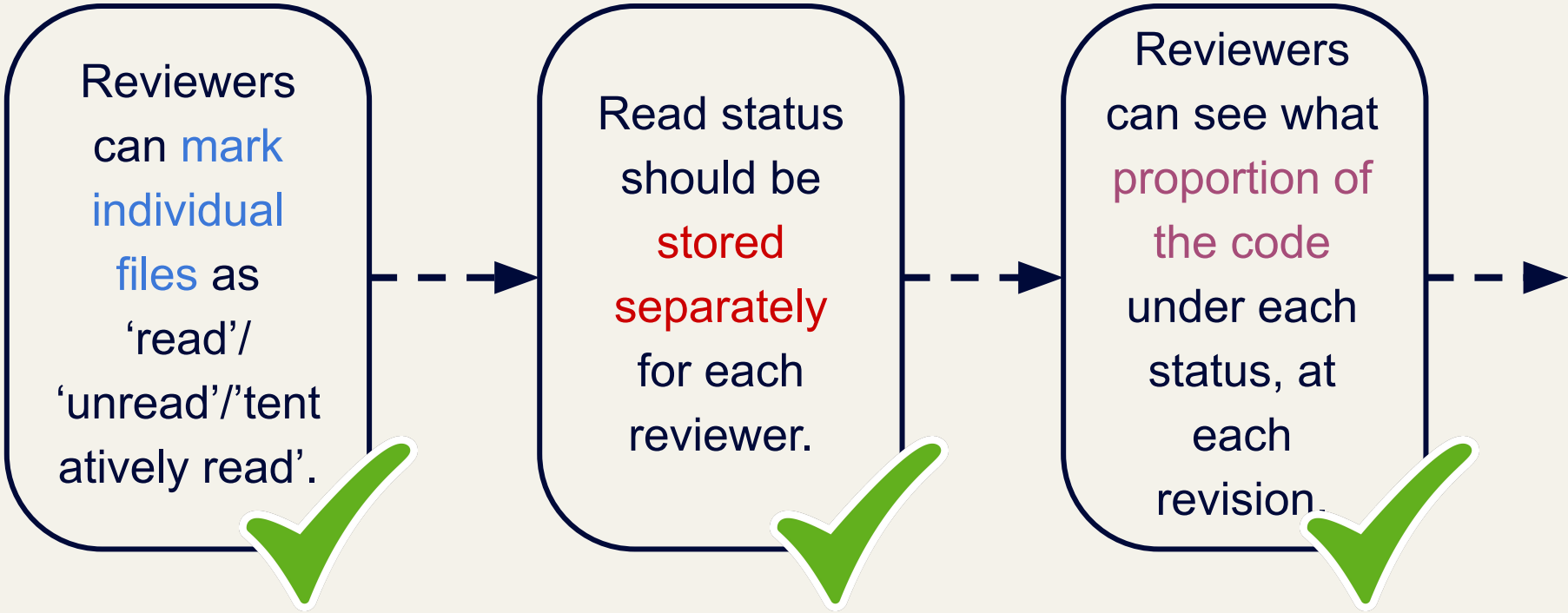
Aim to help the submitters and reviewers better keep track of their reviewing progress towards a project.



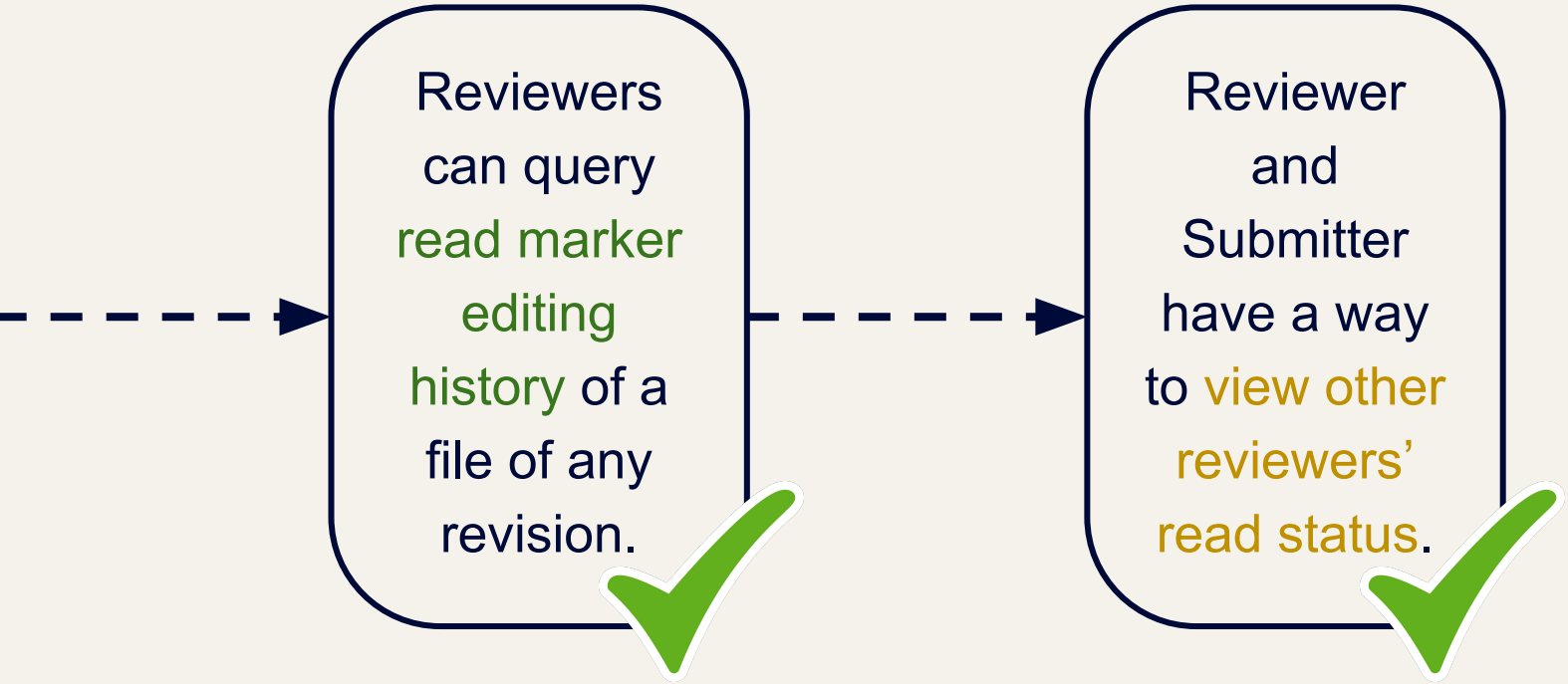
We implemented an extension to ReviewBoard to mark the reading status of each of the files committed to existing repositories.



OUR TASKS

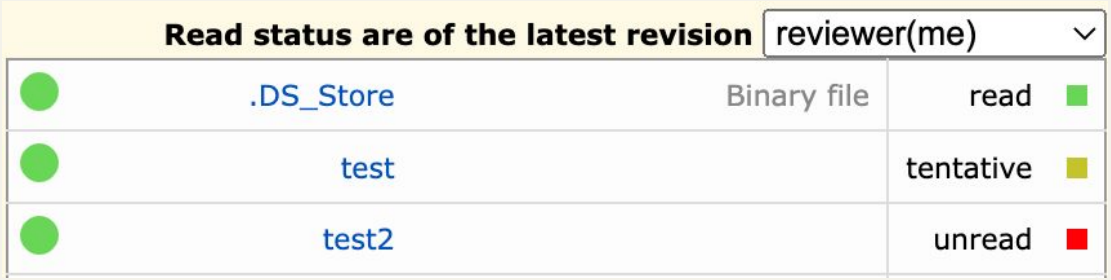

Reviewers can mark individual files as ‘read’/ ‘unread’/’tentatively read’.
Read status should be stored separately for each reviewer.
Reviewers can see what proportion of the code under each status, at each revision.

OUR TASKS


Reviewers can query read marker editing history of a file of any revision.
Reviewer and Submitter have a way to view other reviewers' read status.

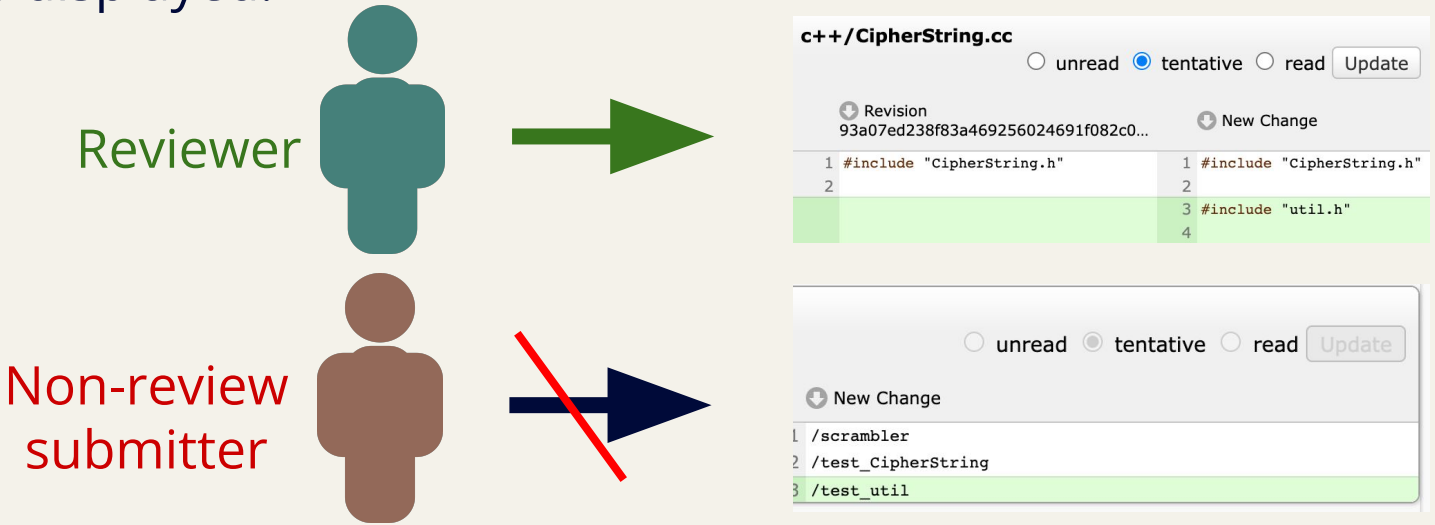
FINAL DELIVERY

1. A *“File”* section in the Diff tab for each review request, capable of showing all current Read Status of the reviewers of the review request.



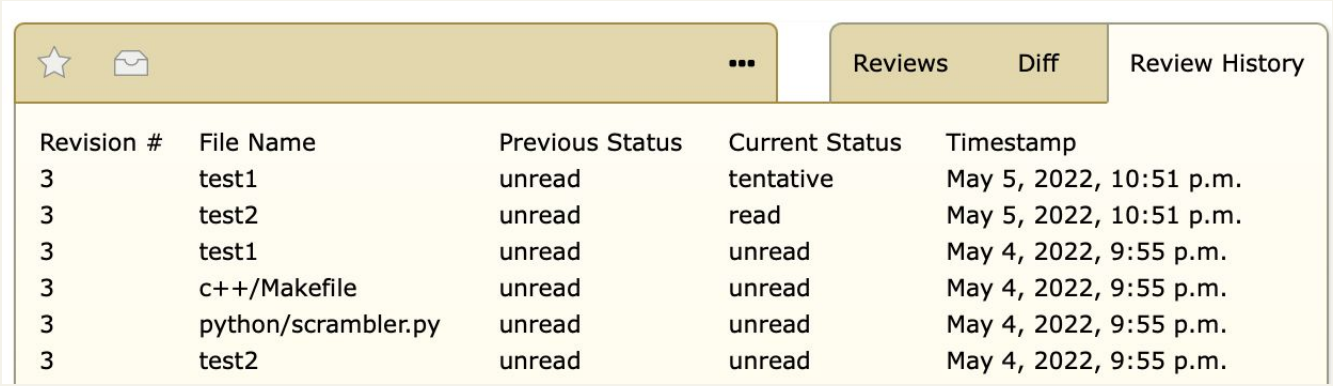
FINAL DELIVERY

2. A Read Status radio in each of the displayed File Differences, allowing reviewers to modify their Read Status upon each of the files displayed.



FINAL DELIVERY

3. A Review History Tab for each review request, will show all historical Read Status changes for each file of the current reviewer.



Revision #	File Name	Previous Status	Current Status	Timestamp
3	test1	unread	tentative	May 5, 2022, 10:51 p.m.
3	test2	unread	read	May 5, 2022, 10:51 p.m.
3	test1	unread	unread	May 4, 2022, 9:55 p.m.
3	c++/Makefile	unread	unread	May 4, 2022, 9:55 p.m.
3	python/scrambler.py	unread	unread	May 4, 2022, 9:55 p.m.
3	test2	unread	unread	May 4, 2022, 9:55 p.m.

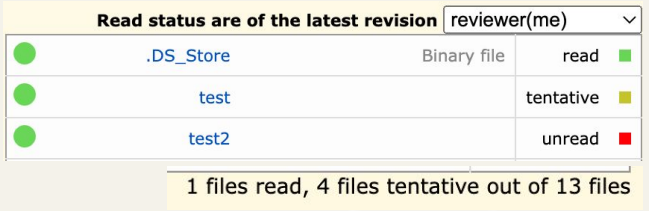
02

SCENARIOS & DEMO

SCENARIO 1

I have returned to a project after two weeks, and I want to recall what my current review progress is.

reviewer

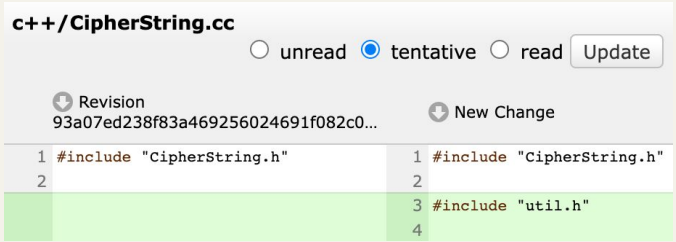


Try the read status marker.

You can see your read status for each file and the overall progress bar.

SCENARIO 2

I have read *CipherString.cc*. and I want others to know my status as well.



reviewer

Click the “read” radio button, then click “update”.

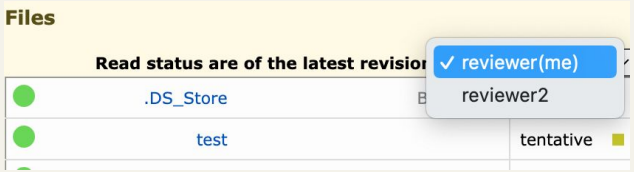
SCENARIO 3

I am waiting for other people's suggestions. I want to know reviewer' progress.

submitter

I reviewed some files and want to know others' status.

reviewer



You can switch between reviewers and see their current status and progress.

SCENARIO 3

Is the status and function visible to everyone?

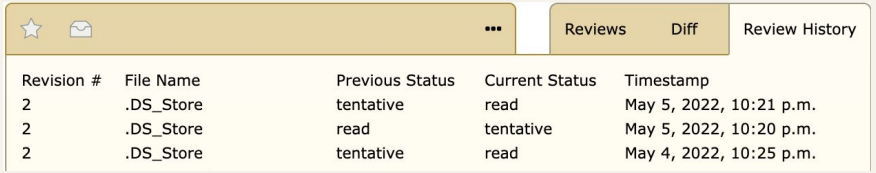
submitter reviewer

	Can mark status?	Can see others' status?
Non-reviewer	No	Yes
Reviewer	Yes	Yes

SCENARIO 4

I have made a lot of changes to the read status, I want to check all histories.

reviewer



Go to the Review History Tab.

Only you will see these histories.

SCENARIO 5

There’s a new revision to the review request. I only want to check the new edited files.

reviewer

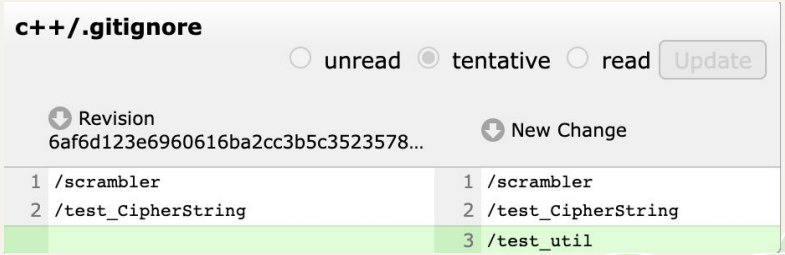
In r1 ?	r1 status	Changed in r2?	r2 status
No	/	Yes	Unread
Yes	Any status	Yes	Unread
Yes	Tentative/ Read	No	Tentative
Yes	Unread	No	Unread

All unchanged files that have been read in previous revision will be marked as tentatively read.

SCENARIO 6

Some files will show in multiple revisions, will I get confused with the read status?

reviewer



Past revisions' read status button will be disabled. You can only change current revision read status.

03

Achievements & Misses

Retrospect

Requirements

- Achievements
- Misses

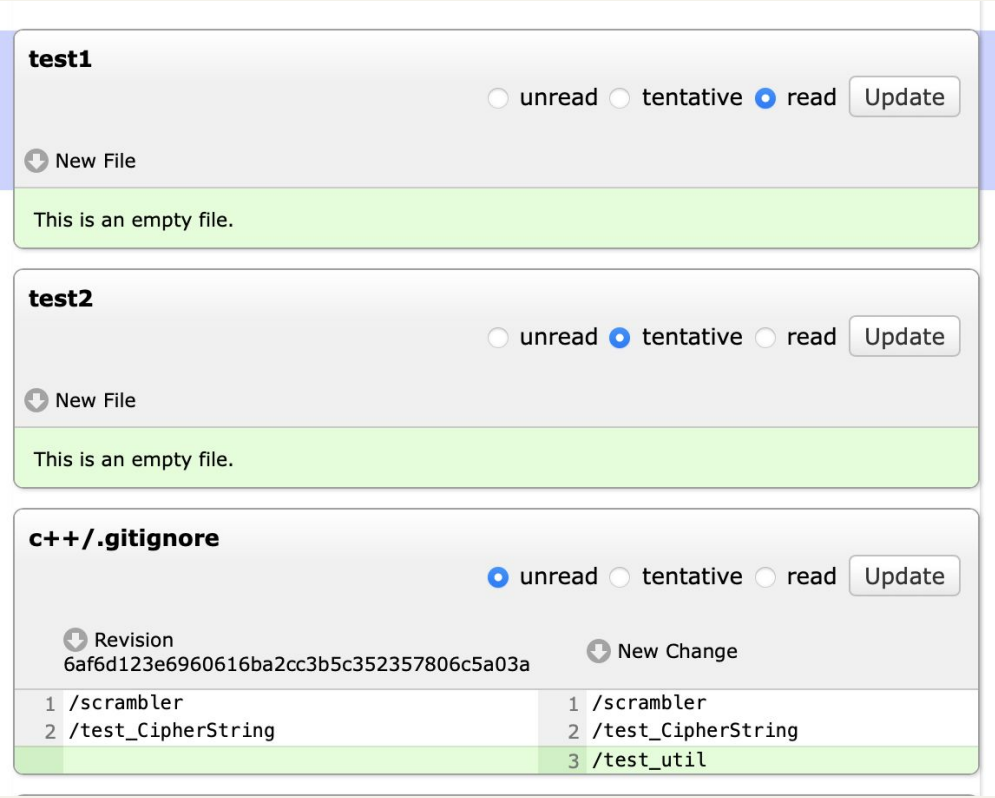
Development Process

- Achievements
- Misses

Achievements

Requirement 1

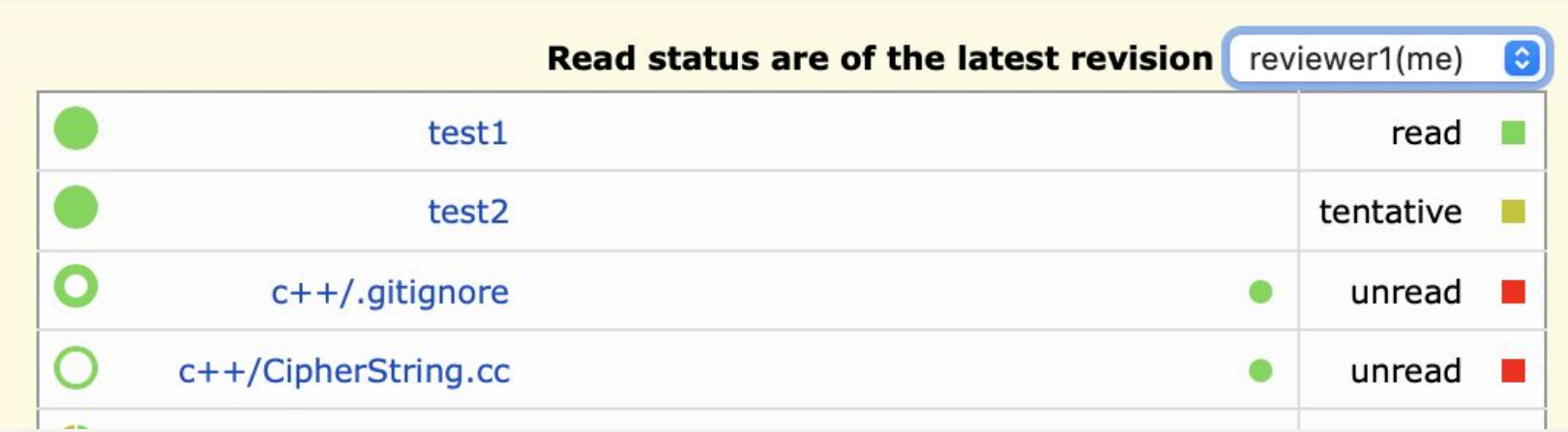
1. Three read statuses
2. Reviewer can update the status with button
3. Disabled for submitter/owner



Achievements

Requirement 1

Once the “update” button is clicked, the status and color for each file adjusted accordingly



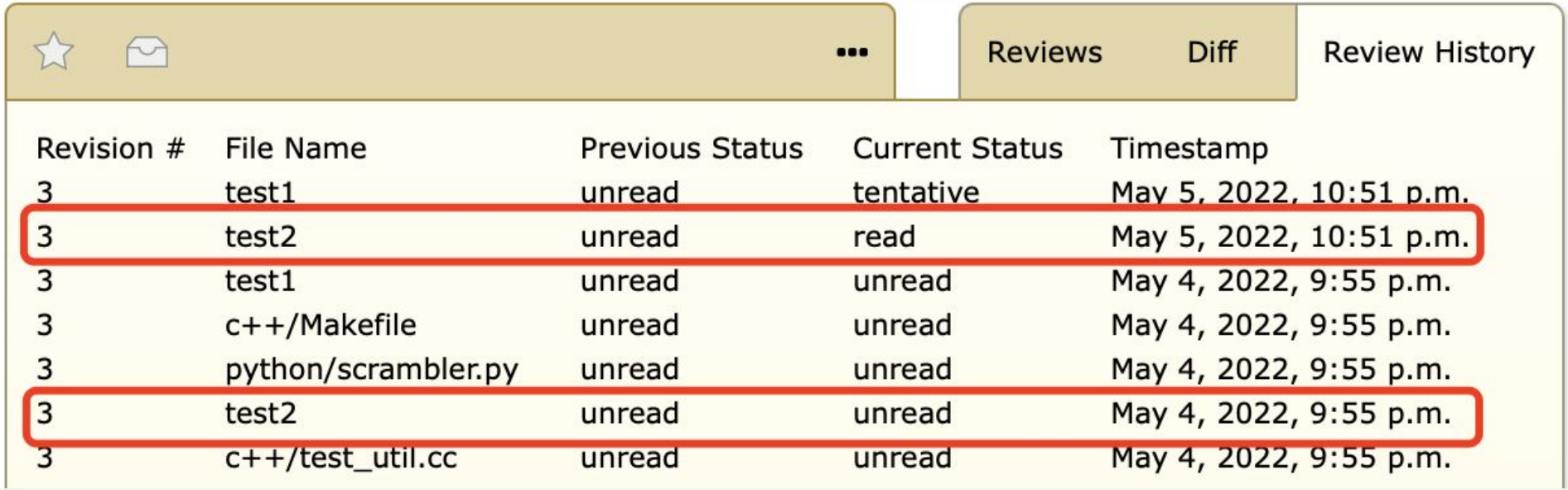
Achievements

Requirement 2 & 3 & 5

1. One status per reviewer per file in a single review request
2. Drop down menu to show list of reviewers
    a. See the status of other reviewers
3. See how many files read/tentatively read out of all files

Achievements
Requirement 4

"Review History" tab to see the history updates for all files



Misses
Requirement

1. Optional requirement 6: Line-level marker
   a. read status can be supported for regions within a file.
   b. In this case, requirements 1- 5 are satisfied at line-level instead of file-level.

2. Switch to MySQL database

Achievements

Development Process

We have finished most of the milestones on time and on track

- Milestone 1: March 4
  - Build up Requirement Documentation **(Complete)**
  - Build up UI Design **(Complete)**
- Milestone 2: March 25
  - Requirement 1 - 3 **(Mostly Done)**
  - Finalize Requirement Documentation **(Complete)**
  - Build on code documentation **(Incomplete)**
  - Intermediary Delivery Meeting **(Complete)**
- Milestone 3: April 15
  - Finalize our Requirements 1-3 from the last milestone **(Complete)**
  - Build on Requirements 4 - 5 **(Complete)**
  - Build on code documentation **(Incomplete)**
- Milestone 4: April 30
  - Finish up on all features and functions and confirm with the client **(Complete)**
  - Build on Requirement 6 **(Incomplete)**
- Final Delivery: May 6
  - Finalize features and functions **(Complete)**
  - Final Delivery Meeting **(Complete)**
    - Finished code documentation **(Complete)**

Achievements

Development Process

We have held effective and productive meetings both on zoom and in person

Achievements
Development Process

1. Provide help and feedbacks as needed
2. Arrives on time and prepared to all meetings.
3. Completes assigned work early or on time.
4. Clear and effective communication

Misses
Development Process

1. Covid and sick members

2. Spring break
    a. Delayed process

Prospect

Future Maintenance & Improvement

Provide a detailed maintenance tutorial in our handoff package

- System design
- Test facilities (unit tests & integration tests)
- Detailed documentation in the code

For the read status add-on, the file can be folded when the reviewers set the read status to “read”

Prospect

Future Development Process

We learned ...

- Group working
- How to do the risk analysis
- How to do the user testing
- How to talk with clients
- How to implement a project in a professional way

Future improvements

- Have a contingency plan to avoid some emergency situation
- Discuss frequently with the clients

Testing progress

Testing Objective:

Backend: To prove our modifications allow users to update and query the reading status of files in review.

Frontend: To prove our modifications on the UI could render correctly and displayed data correctly reflect the backend DB.

TESTING TASKS:

1. *Model(DB):*

   In this automated test, we make sure our database can be accessed and modified.

2. *WebAPI:*

   In this automated test, we make sure the Get and Post requests are being handled correctly.

3. UI:

   Testing on the frontend mainly focus on user manual testing. We visually verify the rendered page is correct under different user scenarios.
   Automated test for frontend is on the way.

04

Handover Package

Handover Package

- User’s Manual
- Maintainer’s Manual
- Documentations from Previous Report
- Signed Licensed Agreement

05

Q&A

Any Questions?
Thank you!