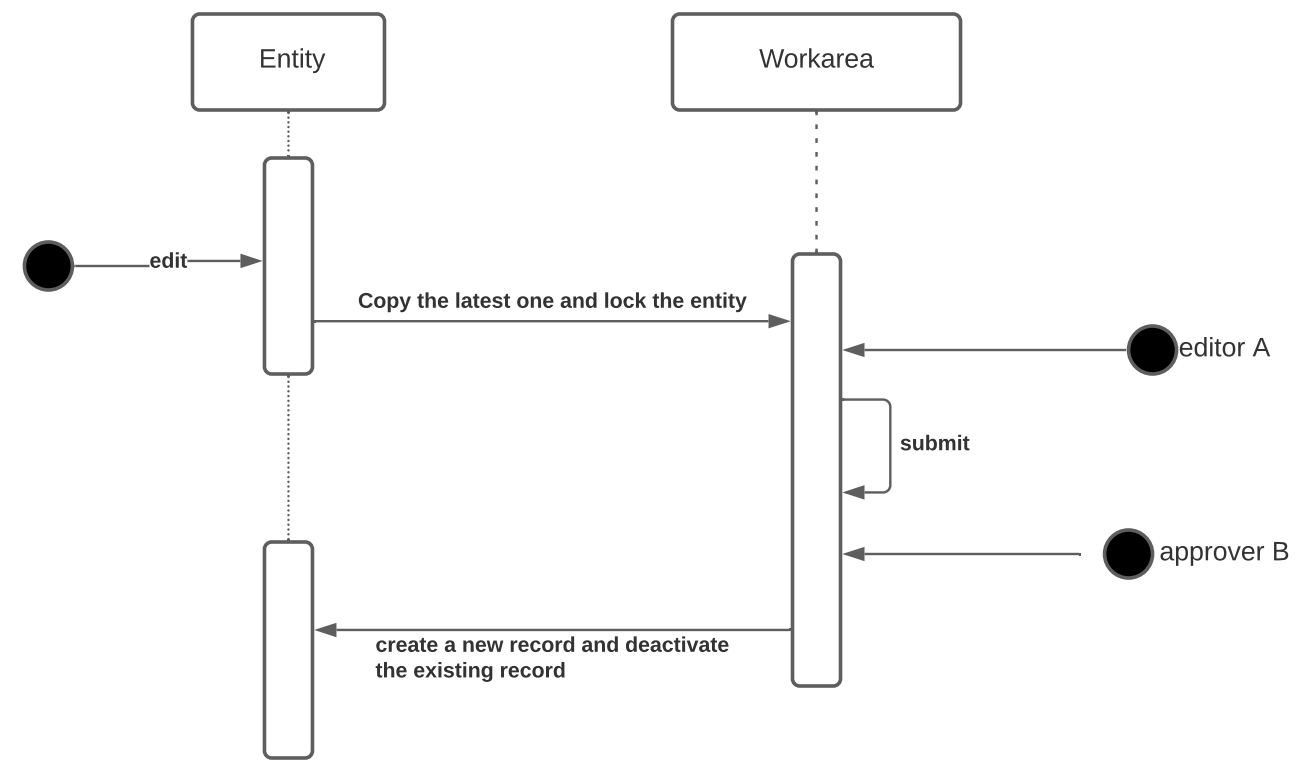
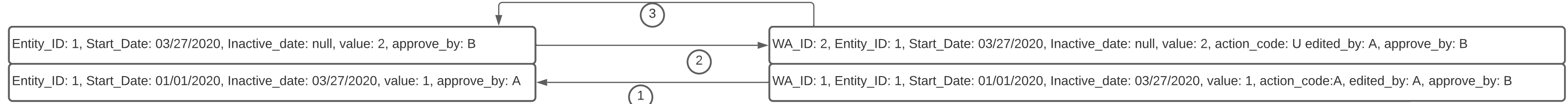


Entity-Workarea Flow



Design Note:

1. Workarea is the staging area an editor can modify the entity value. Only one workarea is allowed to be opened, this will make sure only one editing version existed;
2. Workarea has action_code to represent the action performed in the record:
U - updated; D - deleted; A - added. The action code will drive what action needs to be performed in the entity table;
3. The workarea value will be sync to the entity table once WA get approved. The logic performed in the sync depends on the action code;
4. Use Case:
A) I want to create an entity at 01/01/2020. First step the editor A will create a workarea to work on that, he adds the entity in the WA so the action code will be A. And approver B approves that and the WA is done and the new record is created in the Entity table;
B) I want to update the entity at 03/27/2020, then I will create a workarea from the entity. This time it will copy the **most current entity object** into the WA, the editor work on it, let's say he updates the value from 1 to 2. This time the action code is U. Now the editor submit and approver approve it. And since the action code is U, then in the entity table, 1) it will update the existing record's inactive date at 03/27/2020; 2) add a row with the start_eff_date 03/27/2020;
C) Now I want to delete the entity at 04/01/2020, same process but the action_code is D. After approved, the entity table will just simply update the most current record's inactive date as 04/01/2020



To display, select from entity where the start_eff_date = most_current(start_eff_date)

To view the history of record, we can select from entity where start_eff_date in the past

To view the modification happens on the record, select from the workarea with given time