Small project 1

cc32d9 / Europechain

Simple task assignment

- Alice wants Bob to execute a task. She creates a task entry in the contract.

- Bob executes the task and sends confirmation. The task is removed from the contract.

- Only one task may exist between a pair of accounts.

Creating a task

- Alice executes "**newtask**" action and specifies the following fields:

  – Employer (Alice's account)

  – Worker (Bob's account)

  – Task description (string)

- Contract checks that only employer can create a task on her behalf

- Conract checks that worker account exists

Creating a task (2)

- Contract checks that there's no existing task from Alice to Bob

- Contract notifies Bob

Confirming a task

- Bob executes "**finished**" action with the following arguments:
  - Employer account
  - Worker account
- The contract checks that such task exists
- The contract allows only Worker to execute this

Confirming a task (2)

- Contract deletes the entry from the tasks table
- Contract sends a notification to Alice

Bonus tasks

- Additional argument in "**newtask**": due time in seconds. If worker is too late, "**finished**" will reject. Employer can only remove the outdated task with "**cancel**" action.

- "**finished**" does not delete the entry, but marks it as finished. Employer needs to execute "**approve**" action to delete the entry.

Bonus tasks (2)

- Employer can extend the due time with "**extend**" action.

- Additional field in the task table for worker's comment. The worker can *append* to its content with "**comment**" action.