

Pseudo Code

getJobData

Alg getJobData (verifyNum)

input verifyNum

output jobData or null

1. **kioskUid** \leftarrow getKioskUid ()
2. **return** firebaseOnce('kioskUid_verifyNum')

requestJob

Alg inCompletedJobHandler (**jobData**)

input object **jobData**

output boolean **JobsConvertingResult**

1. **A** \leftarrow new Array
2. **for** each **sJob** \in **jobData**
 - if** (**sJob**.status = 'COMPLETED')
continue
 - if** (**sJob**.status = 'ERROR')
return 'ERROR'
 - if** (**sJob**.status = 'WAITING')
sJobWaitingPromise = getConversionPromise (**jobData**.key ,**sJob**.key)
A.push (**sJobWaitingPromise**)
3. **if** (isEmpty(**sJobWaitingPromise**))
paymentResult \leftarrow requestPayment (**jobData**.price)
if(**paymentResult** = false)
return 'PAYMENT_FAILED'
startPrinting (**jobData**)

- return** 'SUCCESS'
- 4. **convertingJobHandler** (**A**, **jobData**)
- 5. **return** 'WAITING'

convertingJobHandler

Alg **convertingJobHandler** (**A**, **jobData**)

input object **jobData**

output void

- 1. **enQueue** (**jobData.key** , **jobInfo**)
- 2. **result** \leftarrow **Promise.all**(**A**)
- 3. **if** (**isRejected**(**result**))
 - changeQueueElementState** (**jobData.key** , 'ERROR')
 - setTimeout**(30)
 - deQueue** (**jobData.key**)
 - return** false
- 4. **paymentResult** \leftarrow **requestPayment** (**jobData.price**)
- 5. **if** (**paymentResult** = false)
 - changeQueueElementState** (**jobData.key**, 'PAYMENT_FAILED')
 - setTimeout**(30)
 - deQueue** (**jobData.key**)
 - return**
- 6. **deQueue** (**jobData.key**)
- 7. **startPrinting** (**jobData**)
- 8. **return**

getConversionPromise

Alg **waitForConversion** (**key**, **index**)

input object **sJob**

output promise **sJobWaitingPromise**

```
return new Promise ( (resolve, reject) => {
  let ref = firebase.database().ref(`printJobs/${key}/${index}/status`);
  ref.on('value', (snap) => {
    let status = snap.val();

    if ( status === 'WAITING' ) {
      return;
    }

    ref.off('value');
    if ( status === 'ERROR' ) {
      reject(status);
    }
    if ( status === 'COMPLETED' ) {
      resolve(status);
    }
  }
});
```

startPrinting

Alg startPrinting (**jobData**)

input jobData

output void

1. sendHttpRequestToLocalHostServer(**jobData**)
2. **return**

기타 필요한 함수

1. getNotice ()

특수기호 클립보드



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