

# **Report**

## **Distributed Operating Systems (COP5615)**

### **Project 4.1**

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# File details

1. All the files get created in the transaction invoice folder in the root directory. Two types of files can be seen: .txt and .csv file.

.csv file - contains the details of the participants and the transactions that are known to all participants.

.txt file – is actually details of the wallet and the file name consists of the public and the private key of each participant . Number of files created is equal to the number of participants.

Sample images for the sample output -

Total participants = 5

Number of transactions to be performed = 7

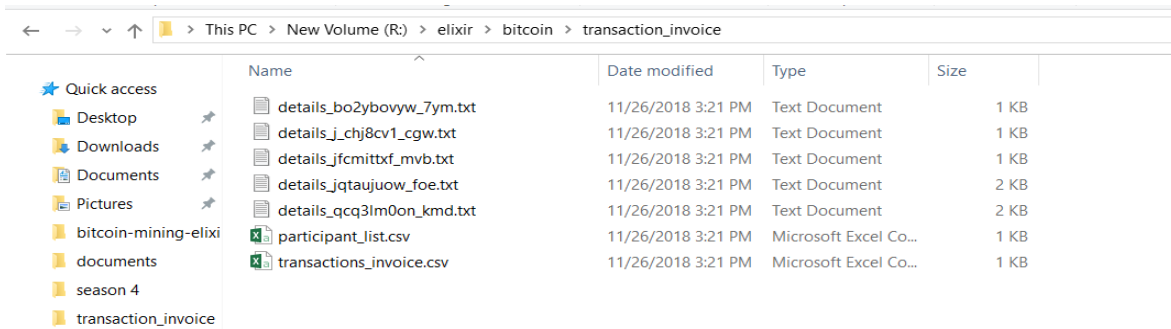


Fig. 1

2. “Transactions\_invoice.csv” contains the list of all transaction that took place like between whom did it take place and timestamp information.

	A	B	C	D	E	F	G	H	I	J
	transaction id	debit account	credit account	amount transferred	status	time stamp				
1	wy0iio133idy	jfcmittxf	jqtaijuow	34	success	2018-11-26 20:21:13.601000				
2	i6keedrwwgpk	j_chj8cv1	qcq3lm0on	76	success	2018-11-26 20:21:14.788000				
3	lukljtwh2nvy	j_chj8cv1	jqtaijuow	41	success	2018-11-26 20:21:15.819000				
4	ygxaffletnz5l	jfcmittxf	jqtaijuow	35	success	2018-11-26 20:21:16.882000				
5	cnmwdepjk3wp	qcq3lm0on	jqtaijuow	300	failed	2018-11-26 20:21:17.960000				
6	tjfmh9j3w6au	qcq3lm0on	bo2ybovyw	310	failed	2018-11-26 20:21:19.006000				
7	z7yf9pmainn4	qcq3lm0on	bo2ybovyw	104	success	2018-11-26 20:21:20.068000				
8										
9										
10										
11										

Fig. 2

- Contains the list of all participants with the amount they have been allocated in their wallet before the transactions.

	A	B	C	D	E	F	G	H	I	J	K	L
1	public key	balance in wallet										
2	bo2ybovyw	155										
3	jqtaujuow	151										
4	j_chj8cv1	137										
5	jfcmittxf	165										
6	qcq3lm0on	213										
7												
8												

Fig. 3

- Complete wallet details as well as complete transaction invoice of a participant in which the participant was involved. It will be different for different participants. Ex-- participant with public key – bo2ybovyw has balance 155 (Fig. 3 & Fig. 4) and participated in 2 transactions (Fig. 2). Same transactions shown in the wallet of this participant (Fig. 4).

```

1 Details of the participant
2   balance in wallet = 155
3   public key = bo2ybovyw
4   private key = 7ym
5
6
7 Transaction details involving this participant
8   transaction id = tjfmh9j3w6au
9   debit account = qcq3lm0on
10  credit account = bo2ybovyw
11  amount transferred = 310
12  status = failed
13  Timestamp = 2018-11-26 20:21:19.006000
14
15
16 Details of the participant
17  amount in wallet = 155
18  public key = bo2ybovyw
19  private key = 7ym
20
21
22 Transaction details involving this participant
23  transaction id = z7yf9pmainn4
24  debit account = qcq3lm0on
25  credit account = bo2ybovyw
26  amount transferred = 104
27  status = success
28  Timestamp = 2018-11-26 20:21:20.068000
29
30
31 Details of the participant
32  amount in wallet = 259
33  public key = bo2ybovyw
34  private key = 7ym
35
36
37

```

Fig. 4