

Software Engineering Project

7조

발표자 : 박태준

팀원 : 윤제형, 이건, 한센토미, 김한아, 김민우

```
...mirror_object =  
operation == "MIRROR_X":  
    mirror_mod.use_x = True  
    mirror_mod.use_y = False  
    mirror_mod.use_z = False  
operation == "MIRROR_Y":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = True  
    mirror_mod.use_z = False  
operation == "MIRROR_Z":  
    mirror_mod.use_x = False  
    mirror_mod.use_y = False  
    mirror_mod.use_z = True
```

```
...selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
= ("Selected" + str(modifier_ob.name))  
mirror_ob.select = 0  
= bpy.context.selected_objects  
data.objects[one.name].select  
= 1  
print("please select exactly one mirror")
```

--- OPERATOR CLASSES ---

```
...types.Operator):  
    name = "X mirror to the selected  
    object.mirror_mirror_x"  
    bl_label = "Mirror X"
```

Contents

- Team Introduction
- Requirement - Target Concentration
- Analysis and Design
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1. Team Introduction



박태준

- 프로젝트 발표
- Design & Analysis



윤제형

- 블록체인 구현
- Design & Analysis



한센토미

- P2P Network 구현
- Design & Analysis



이 건

- 프레젠테이션
- Project Management
- Design & Analysis



김민우

- 블록체인 구현
- Design & Analysis



김한아

- 블록체인 구현
- Design & Analysis

2. Requirement – But...

Demo Blockchain

But..

Need to concern
Economic context
Social context

Cannot analyze Software System without targeting User

2. Requirement – Target Concentration : Halal

Blockchain for Food Traceability in the Halal Food Industry

커지는 시장 속 치열해지는 '할랄인증 주도권' 쟁탈전

전 세계 할랄 인증기관 300여개...韓, KMF 유일한 인증기관
해수부, 수과원 토해...
...팅 서비스 제공

TE-FOOD, Islah Venture, and PIHH
Enter Into a Tripartite Partnership to
Build the First Halal Food

Leveraging Blockchain
Technology for halal supply

한국할랄인증원, 블록체인 기반의 스마트 계약 시스템 구축

코인네스트, 할랄체인 상장 "이슬람 HACCP 블록체인으로
부흥"

First-of-its-kind blockchain technology to
trace Halal food launched in Dubai

2. Requirement – Demo Blockchain For Halal

Demo Blockchain

For



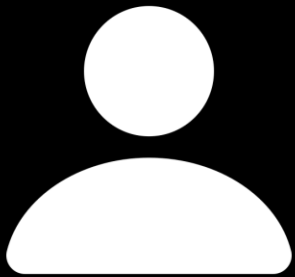
Target User as **Halal** Food Producer

2. Requirement – User Case Modeling



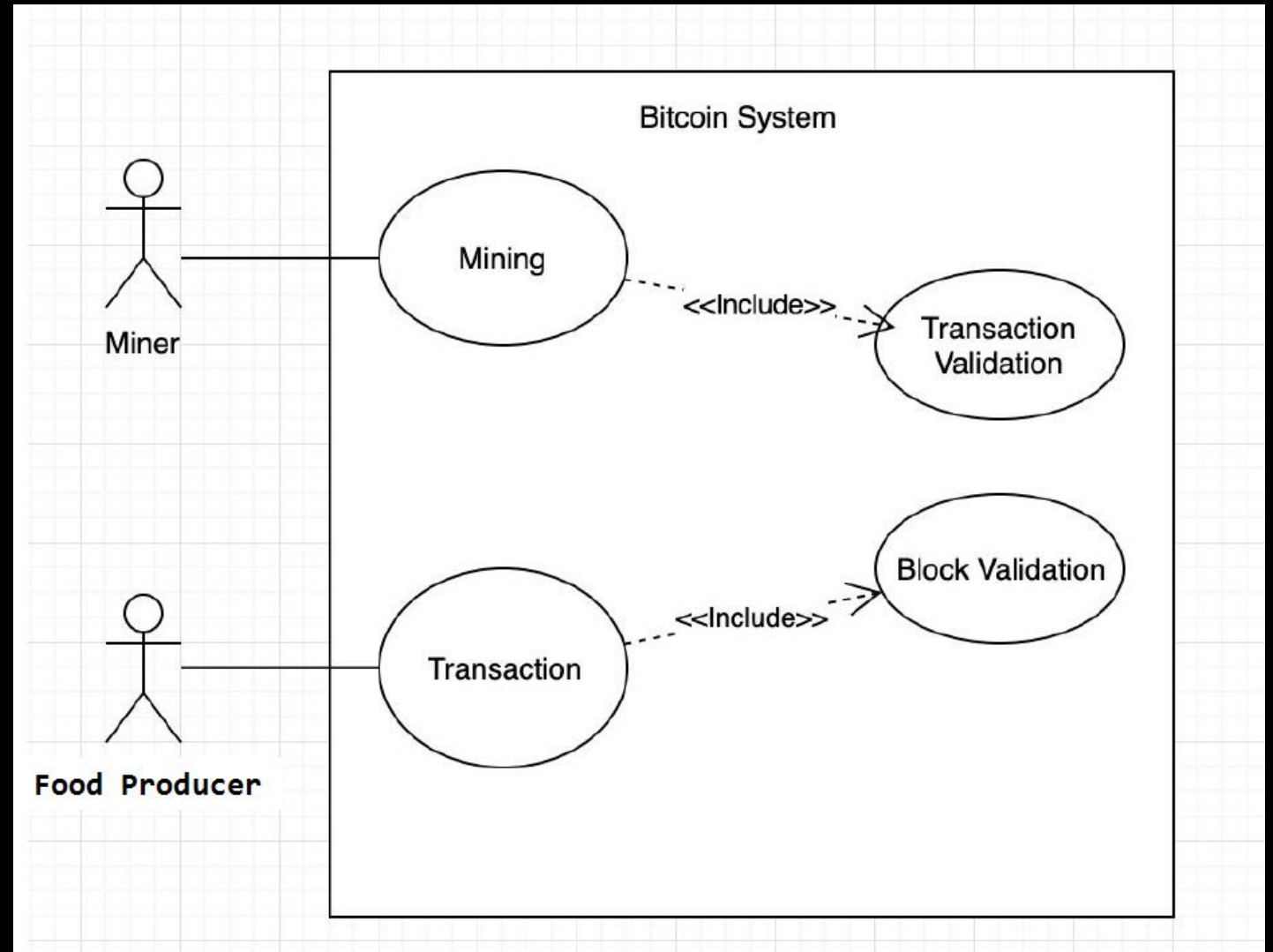
Miner

블록 생성

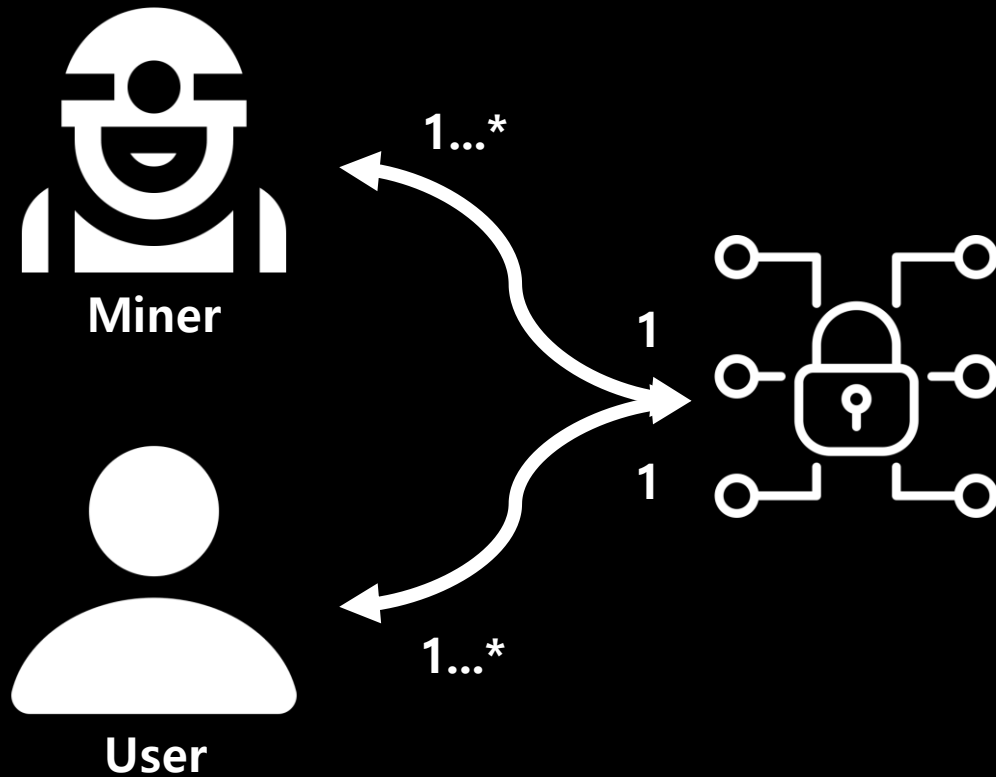


User

블록에 거래 기록



3. Analysis and Design - Class Context Diagram

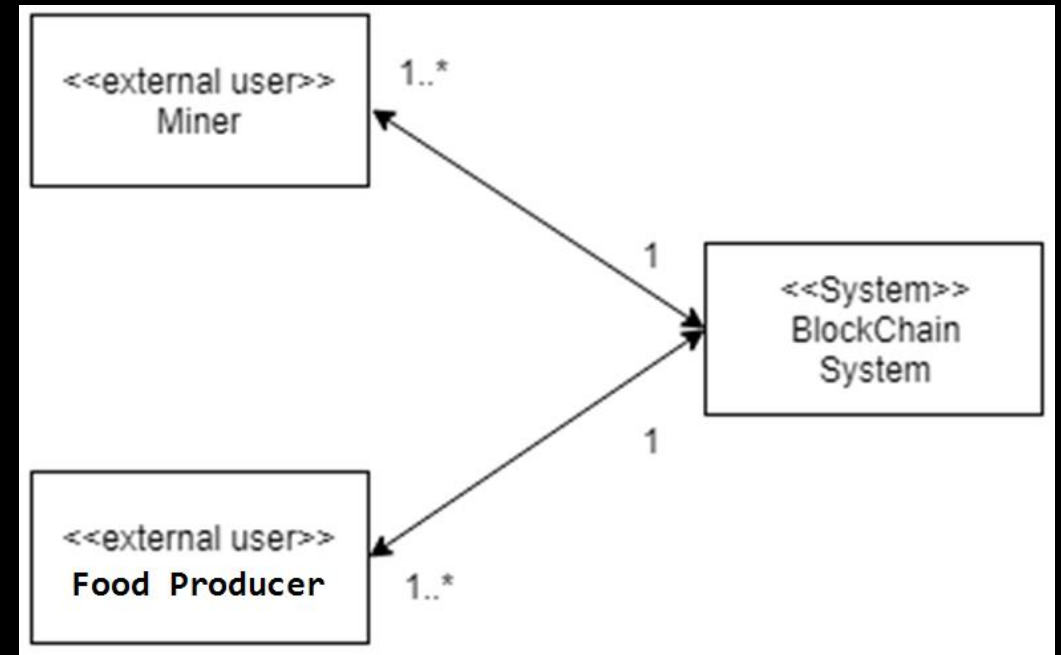


Miner와 블록체인 시스템

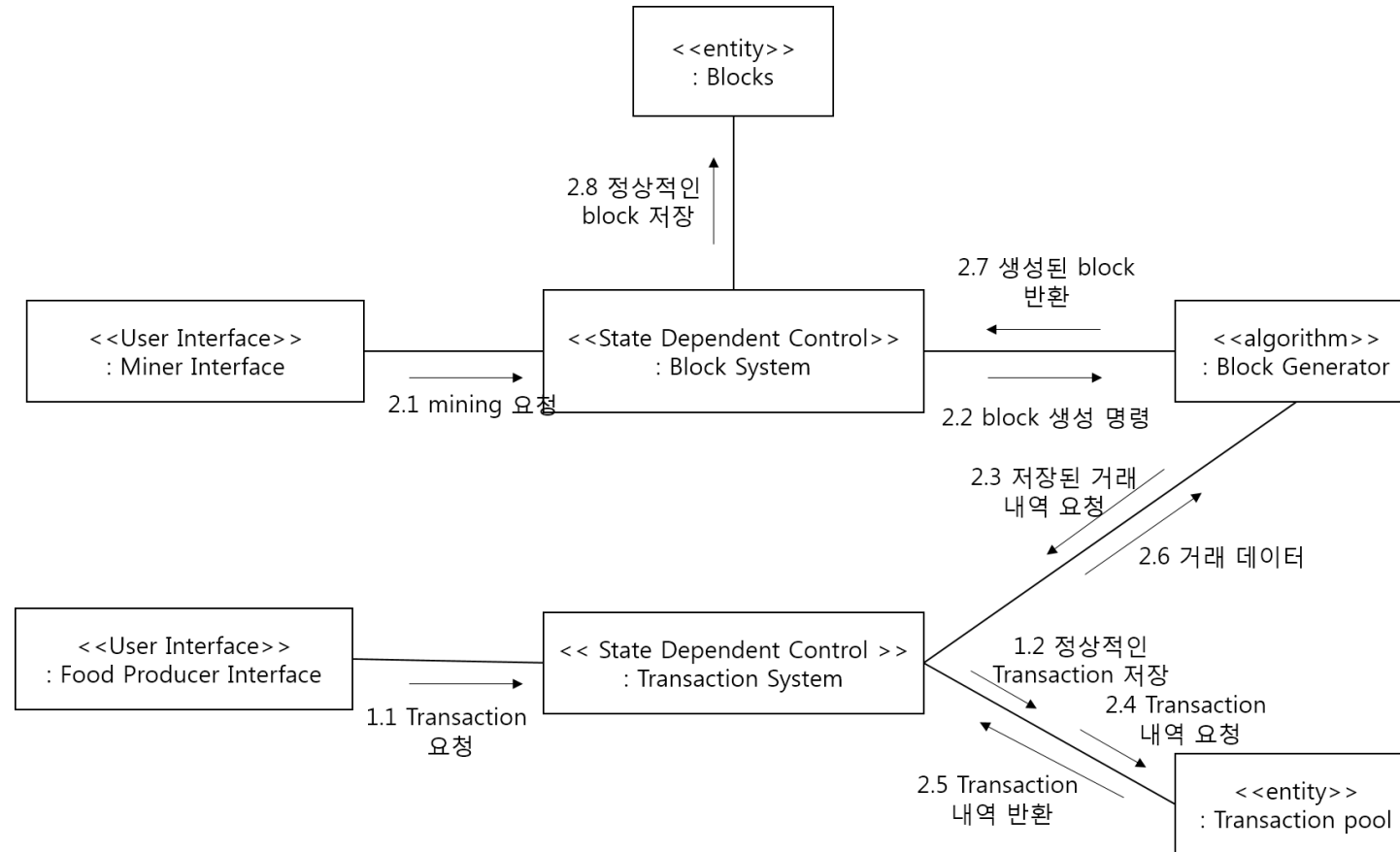
1 : 多

User와 블록체인 시스템

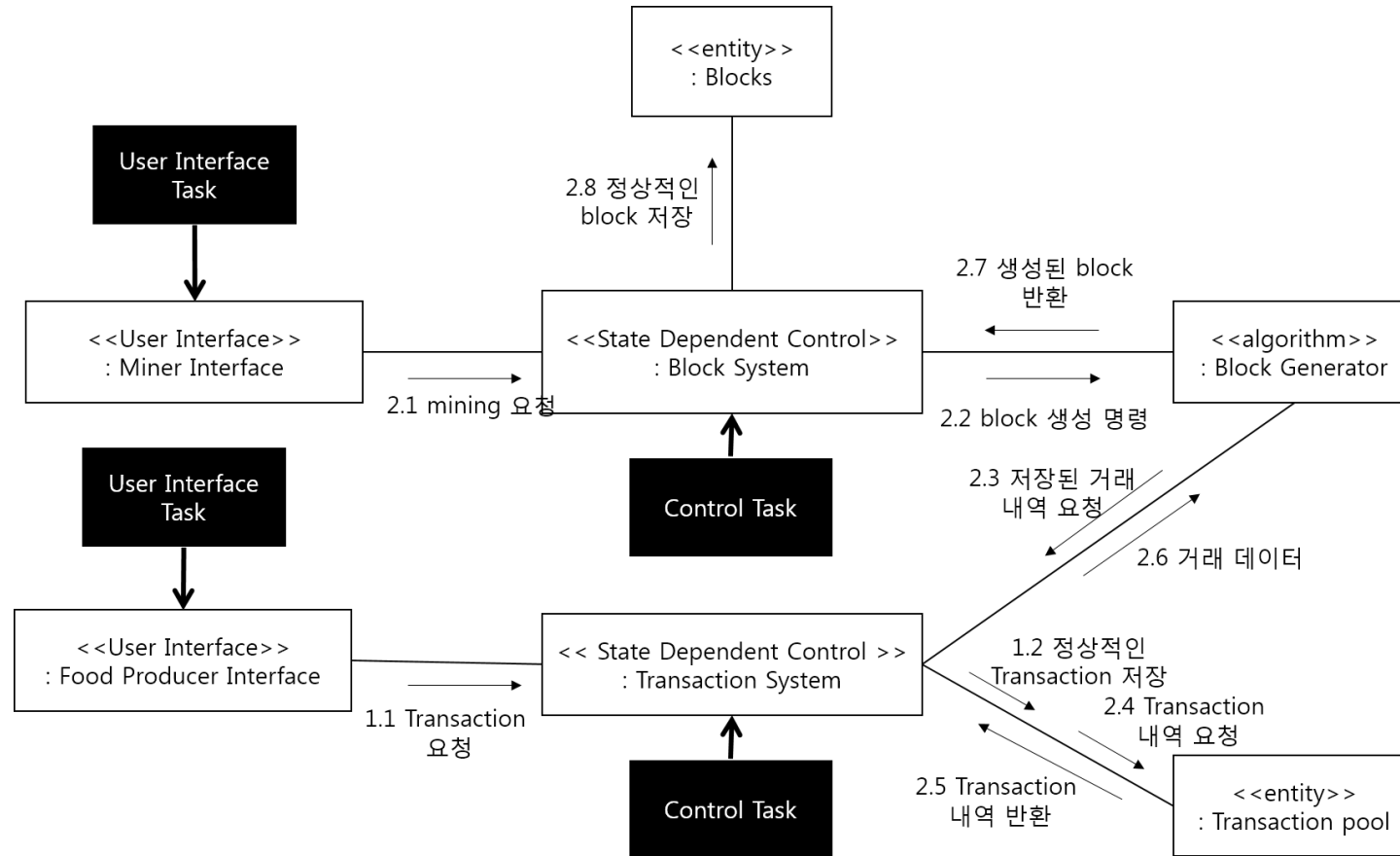
1 : 多



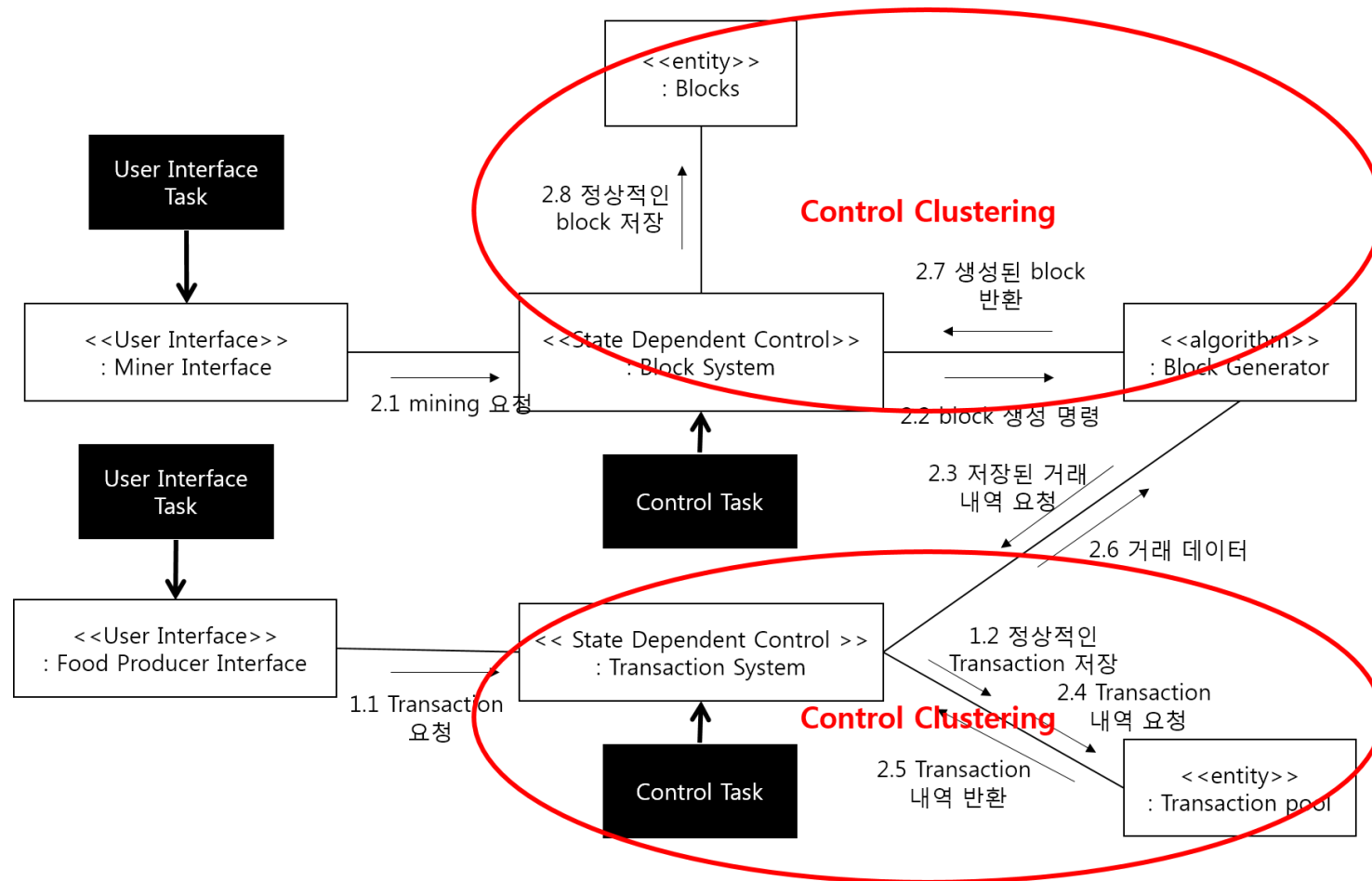
3. Analysis and Design - Collaboration Diagram



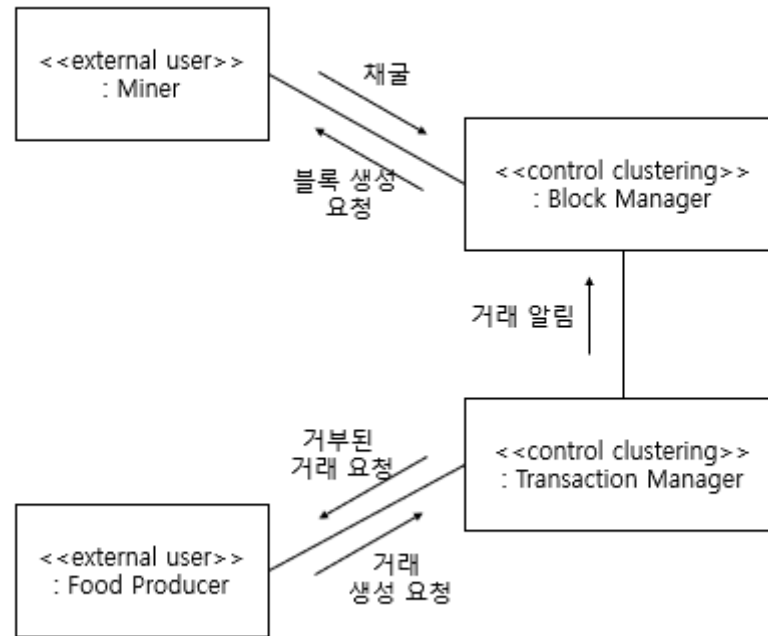
3. Analysis and Design - Identifying Task

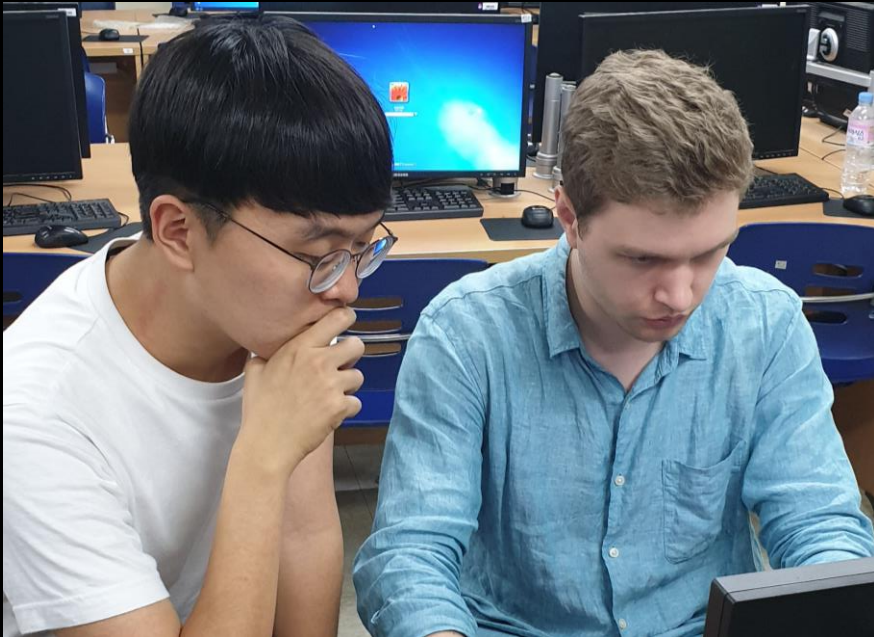


3. Analysis and Design - Identifying Task Clustering



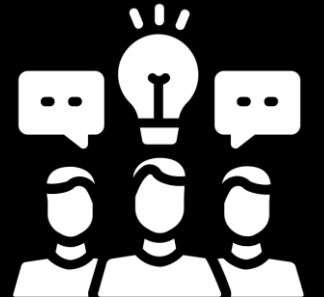
3. Analysis and Design - Task Clustering



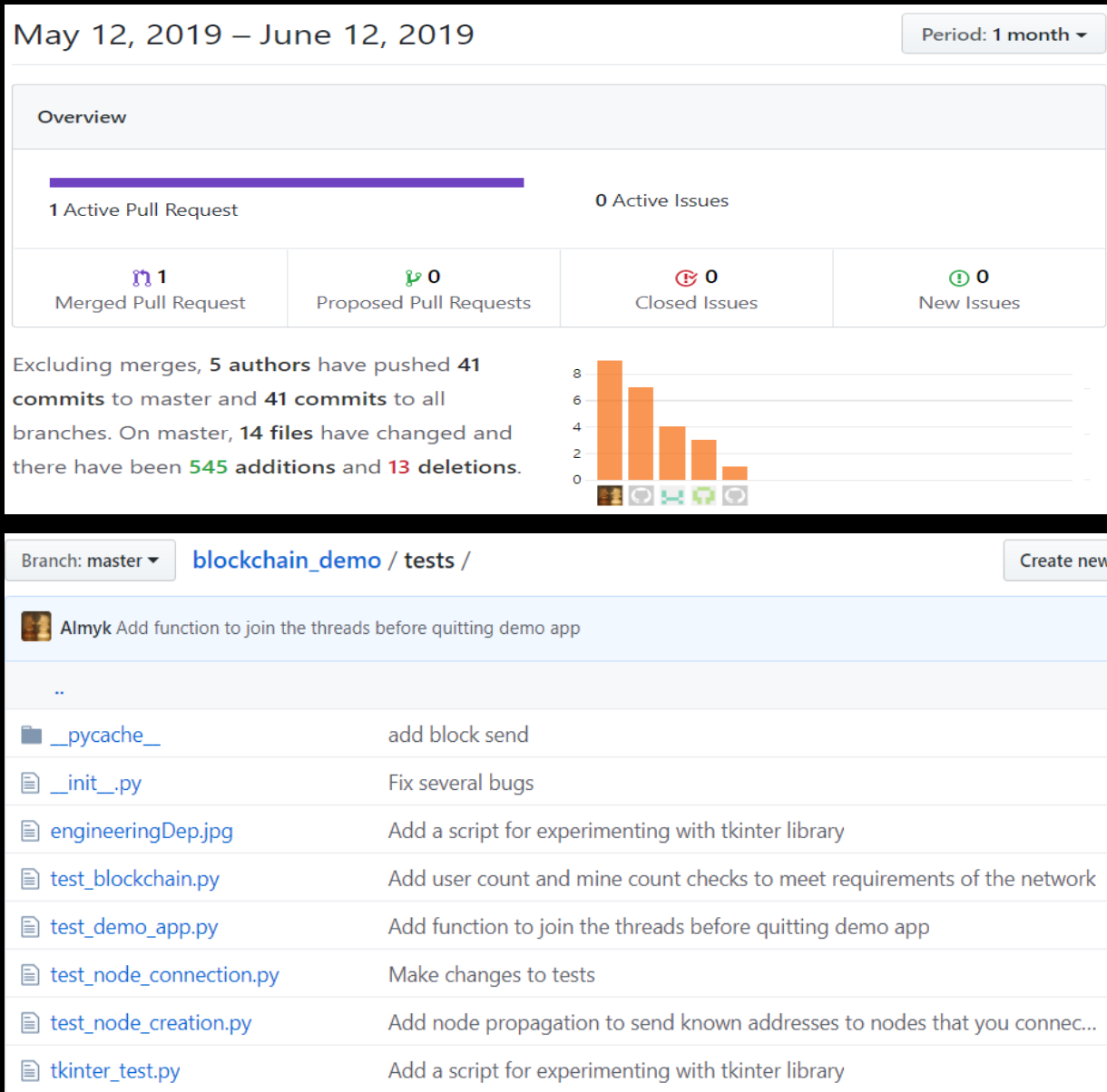


4. Implementation

Work through Pair-Programming

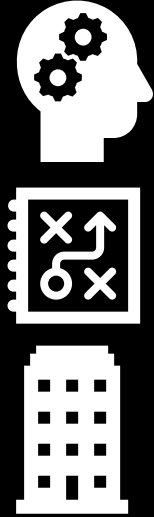


4. Implementation



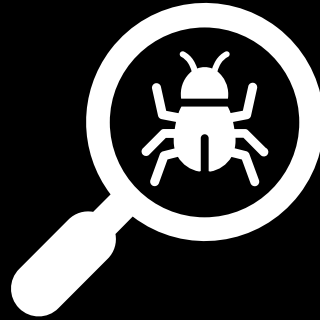
```
1 import Blockchain
2 import time
3 import random
4
5 port1 = random.randint(1111,9999)
6 port2 = random.randint(1111,9999)
7 port3 = random.randint(1111,9999)
8 port4 = random.randint(1111,9999)
9 port5 = random.randint(1111,9999)
10
11 print("port1", port1)
12 print("port2", port2)
13 print("port3", port3)
14 print("port4", port4)
15 print("port5", port5)
16
17
18 node1 = Blockchain.BlockchainNode('localhost', port1)
19 node2 = Blockchain.BlockchainNode('localhost', port2)
20 node3 = Blockchain.BlockchainNode('localhost', port3)
21 node4 = Blockchain.BlockchainNode('localhost', port4)
22 node5 = Blockchain.BlockchainNode('localhost', port5)
23
24 node1.start()
25 node2.start()
26 node3.start()
27 node4.start()
28 node5.start()
```

5. Lesson Learnt From SW Engineering



Planning

Building SW
from scratch



Testing

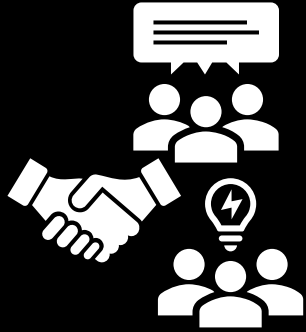
Learned about
Test-Driven Development



Implementation

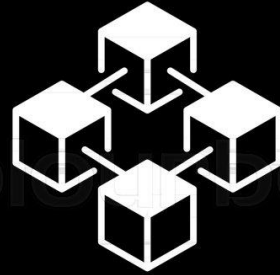
Finish Project on time
Consistent with specification

5. Lesson Learnt From Team Project



Teamwork

Learned to work
together without a conflict



BLOCKCHAIN

Blockchain

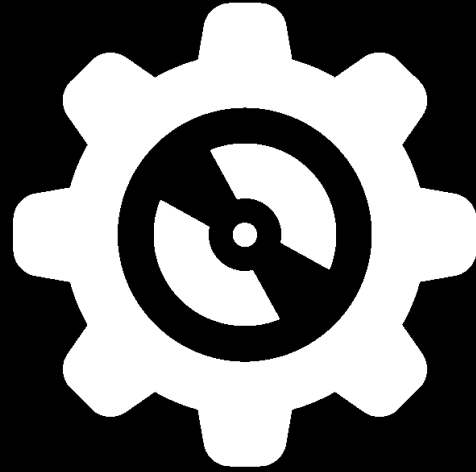
Learned usability
about Blockchain



Git

Work Together using
Git

Q. Any Question...?



Q&A