### LAPORAN TUGAS BESAR IF2121:LOGIKA INFORMATIKA

### Survival Adventure Game

Kelas 02/Kelompok 10

Oleh:

Manasye Shousen Bukit(13516122)

Ahmad Izzan(13516116)

William Juniarta Hadiman(13516026)

Juan Felix T(13516143)



SEKOLAH TEKNIK ELEKTRO DAN INFORMATIKA PROGRAM STUDI TEKNIK INFORMATIKA INSTITUT TEKNOLOGI BANDUNG 2017

# Daftar Isi

<u>Bab 1</u>	
Penjelasan Command dalam game	2
1.1 Menu Utama	2
1.2 Dalam Permainan	2
<u>Bab 2</u>	
Hasil Eksekusi Program	4
<u>Bab 3</u>	
Pembagian Kerja	16

### Bab 1

### Penjelasan Command dalam game

```
1.1 Menu Utama
```

start. -> memulai permainan. Memilih antara memulai permainan baru atau

meload game yang pernah disimpan.

new -> memulai permainan baru.

load.(namafile) -> me-load permainan yang sudah pernah disimpan, jika belum pernah

disimpan, akan memunculkan pesan kesalahan jika belum pernah

menyimpan permainan.

quit. -> keluar dari permainan.

#### 1.2 Dalam Permainan

help. -> menampilkan semua command yang dibutuhkan dalam permainan.

look. -> menampilkan keadaan pemain saat ini dalam map beserta sekelilingnya dalam map 3x3

```
| ?- look.
You're in forest
# # #
# P E
# ^ -
```

Gambar 1.1: command look.

n. s. w. e. -> perintah bergerak, n=utara, s=selatan, w=west, e=east. take(Object). -> mengambil objek disekitar pemain, memunculkan pesan kesalahan jika

objek tidak ada atau inventory penuh.

```
| ?- take(medicalkit).
You took medicalkit!

no
Gambar 1.2: command take berhasil.

| ?- take(rice).
rice does not exist here or your inventory is full

no
Gambar 1.3: command take gagal.
```

drop(Object). -> membuat suatu objek dari inventory pemain, memunculkan pesan kesalahan jika objek tidak ada di inventory.

```
| ?- drop(axe).
You drop axe !
(16 ms) yes
Gambar 1.3: command drop berhasil.
| ?- drop(rice).
rice does not exist in your inventory
Gambar 1.4: command drop gagal.
use(Object). -> menggunakan suatu objek dari inventory pemain, memunculkan pesan
              kesalahan jika objek tidak ada di inventory.
| ?- use(medicalkit).
You treated your wounds with medicalkit.
yes
Gambar 1.5: command use berhasil.
| ?- use(axe).
axe does not exist in your inventory
Gambar 1.6: command use gagal.
attack.
         -> menyerang musuh yang berada di satu tempat dengan pemain,
            memunculkan pesan kesalahan jika musuh tidak ada di sekitar.
status. -> menampilkan status pemain saat ini.
Health : 130
Hunger : 96
Thirst : 96
Weapon : none
Crap, take something already dude.Or do you want to die here?
(15 ms) yes
Gambar 1.7: command status.
```

save(filename).-> menyimpan keadaan game saat ini kedalam file.

map. -> menampilkan keseluruhan map (membutuhkan objek radar di inventory untuk menggunakannya). Menampilkan pesan kesalahan jika tidak ada radar dalam inventory.



Gambar 1.8 : *command* map.

expand(backpack) -> menambah ruang di inventory, harus memilik item backpack terlebih dahulu.

nap. -> menambah health, dengan menguragi hunger dan thirsty.

## Bab 2

## Hasil Eksekusi Program

?- start.		·	
000000000000000	000000000000000000000	000000000000000000	00000000000000
0000000000	00000000	00000000000	0000
0000000000	00000000	000000_00_00_00_	0000
0000000_00000000	00_000000000000000000	00_0000000000000_00000	00000000000000
0000000000	00000000_00	000000000000	0000
0000000000	0000000000	000000000000	0000
0000000000000	000000000000000000	0000000_00000000	00000000000000

Do you want to load, have a new game or quit from the game [load/new/quit] ?

```
Gambar 2.1 : Menu Utama
| ?- e.
You're in open field
You see enemy nearby!
on your north there's fence
on your west there's forest
on your south there's open field
on your east there's forest
You're in forest
on your north there's fence
on your west there's open field
on your south there's forest
on your east there's open field
nο
| ?- e.
You're in open field
You see enemy nearby!
on your north there's fence
on your west there's forest
on your south there's open field
on your east there's forest
Gambar 2.2: move.
| ?- attack.
You got no weapon tho
```

You took 19 damage...

```
| ?- status.
Health: 81
Hunger: 97
Thirst: 97
Weapon : none
Crap, take something already dude. Or do you want to die here?
Gambar 2.3: attack tanpa weapon.
| ?- look.
You're in open field
You see enemy nearby!
# # #
^ P ^
^ b w
Gambar 2.4 command look.
| ?- s.
You're in open field
theres backpack, extra storage for your inventory!
on your north there's open field
on your west there's forest
on your south there's open field
on your east there's forest
| ?- take(backpack).
You took backpack !
You took 19 damage...
no
Gambar 2.5 take namun masih satu petak dengan enemy.
| ?- e.
You're in forest
theres tea, could definitely cure yout thrist
on your north there's forest
on your west there's open field
on your south there's forest
on your east there's open field
```

```
| ?- look.
You're in forest
You see enemy nearby!
theres tea, could definitely cure yout thrist
_ ^ _
- P -
- E s
| ?- e.
You're in open field
on your north there's open field
on your west there's forest
on your south there's open field
on your east there's forest
no
?- w.
You're in forest
You see enemy nearby!
on your north there's forest
on your west there's open field
on your south there's forest
on your east there's open field
| ?- use(axe).
You held axe in your hand .
You took 19 damage...
```

Gambar 2.6 command use, namun masih satu tempat dengan enemy.

```
| ?- attack.
attacking enemy nearby
You took 19 damage...
You kill 1 enemy
```

Gambar 2.7: melakukan attack, musuh berkurang satu.

```
| ?- n.
You're in forest
theres tea, could definitely cure yout thrist
on your north there's forest
on your west there's open field
on your south there's forest
on your east there's open field
no
| ?- take(tea).
You took tea!
yes
| ?- use(tea).
Glad to have tea. Water is important to survive.
yes .
| ?- s.
You're in forest
theres rice, it seems like it's edible
on your north there's forest
on your west there's lake
on your south there's forest
on your east there's lake
| ?- take(rice).
You took rice !
| ?- use(rice).
Yummy.. I love rice. Food is important to survive.
no
| ?- status.
Health: 24
Hunger: 123
Thirst: 118
Weapon : axe
Inventory:
 o backpack
(16 ms) yes
```

Gambar 2.8: command take and use makanan dan minuman, status hungry dan thrist bertambah

```
| ?- n.
You're in forest
theres medicalkit, cure yourself with it!
on your north there's forest
on your west there's lake
on your south there's forest
on your east there's lake
yes
| ?- take(medicalkit).
You took medicalkit!
(16 ms) no
| ?- use(medicalkit).
You treated your wounds with medicalkit.
| ?- status.
Health: 54
Hunger: 117
Thirst: 112
Weapon : axe
Inventory:
 o backpack
yes
Gambar 2.9: command take and use medicalkit, health bertambah.
| ?- take(radar).
You took radar !
no
| ?- map.
       #
           #
 #
              Ε
                                        f
                                                                      #
                                                            s
 #
                                            Ε
                                                  Ε
                                                                   Ε
                                  b
                                                                      #
                                                            m
                                                               m
 #
                                     b
                                                                      #
                    s
       m ^
                        \wedge
                                           \wedge
 #
                                                                      #
                                                     W
                       f ~
 #
                     f
       m f
                                                                      #
              W
                                                               m
    \wedge
                                        E
                        w w
                                               s
                                                                      #
              \sim
 #
                                                                      #
       s w
                    m
                           b
                              W
                                 m
                                        W
              f
                                               f
 #
                           Ε
                                        Ρ
                                                      f
                                                         Ε
                                                                      #
    s
                                  b
 #
                                               Ε
                                                            f
                                                                      #
                                           m
                                                               s
                                                                      #
           #
                                                     #
                                                               #
                                                                   #
(32 ms) yes
Gambar 2.10: command take radar, bisa menggunakan command map.
| ?- take(axe).
```

axe does not exist here or your inventory is full

```
| ?- expand(backpack).
Whoa, you upgrade your bag with backpack.
yes .
| ?- status.
Health: 100
Hunger: 100
Thirst: 100
Weapon : none
Inventory:
 o axe
 o rice
 o noodle
 o lotus
 o axe
(15 ms) yes
Gambar 2.11: use backpack, memperluas inventory (bonus).
| ?- drop(axe).
You drop axe !
no
| ?- drop(rice).
You drop rice !
(15 ms) no
| ?- status.
Health: 100
Hunger: 100
Thirst: 100
Weapon : none
Inventory:
o rice
 o rice
 o rice
 o rice
 o rice
 o rice
 o noodle
 o lotus
 o axe
```

Gambar 2.12: command drop axe dan rice.

## | ?- saveGame(tes2). File has been saved!!

```
| ?- start.
```

o axe

(31 ms) yes

```
Do you want to load, have a new game or quit from the game [load/new/quit] ?
Input the name of the file with the format (ex : 'save')
Load is success
Available commands:
                     :
--- start the game!
--- show available commands
--- quit the game
--- look around you
--- move
--- look at the map and detect enemies (need radar to use)
help
quit
n. s. e. w.
map
take(Object)
                      --- pick up an object
--- drop an object
--- use an object
drop(Object)
use(Object)
                      --- use an object
--- expand inventory if you have item backpack
--- attack enemy that crosses your path
--- show your status
--- take a nap to renew health but decrease hunger and thirst
expand(Object)
attack
status
saveGame(Filename) --- save your game
Legends:
m = medicine
f = food
w = water
1
s = weapon
P = player
E = enemy
^{\sim},^{\wedge},f,- = accessible
# = fence(not accessible)
r = radar
b = backpack
(47 ms) yes
| ?- status.
Health: 100
Hunger: 100
Thirst: 100
Weapon : none
Inventory:
  o rice
  o rice
  o rice
  o rice
  o rice
  o rice
  o noodle
  o lotus
```

```
| ?- status.
Health: 1
Hunger: 100
Thirst: 100
Weapon : none
Inventory:
 o rice
 o rice
 o rice
 o rice
 o rice
 o rice
 o noodle
 o lotus
 o axe
yes .
```

#### Gambar 2.13: Save and load.

00000000000000000000000000	0000000000000000
0000000000000000000000000000000_0000	00000000
	0_00_000000
$\underline{\hspace{0.5cm}} 0000000\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 000000\underline{\hspace{0.5cm}} 0000000\underline{\hspace{0.5cm}} 000000\underline{\hspace{0.5cm}} 00\underline{\hspace{0.5cm}} 0\underline{\hspace{0.5cm}} 0\underline$	_00000000000000000
$\_00\_00\_00\_00\_00\_00\_00\_00\_00\_00\_00\_00\_00$	000000
${\color{red}\phantom{00000000000000000000000000000000000$	000000
00  00  00000  00  00  0000000  000000	00 0000000 0000000

Do you want to load, have a new game or quit from the game [load/new/quit] ?



#### Gambar 2.14 : Game logic ketika kalah.

| ?- attack.
attacking enemy nearby
You took 7 damage...
You kill 1 enemy
You defeat all enemy . Glorious triumph await for you :)). You are going to main menu...

00000000000000000000000000	00000000000000000000000000
00000000000000000000	0000000000000000_
0000000000000000000000	00000000_00_00_00_000000_
00000000000000000_00000000	00_0000000000000000000000
00000000000000000000	0000_0000_000000_00_
0000_00_00_00_00_00_00_00_00_00_00_	0000_0000000000_0000_
00000000000000000000000000	0000000_00000000000000000_

Do you want to load,have a new game or quit from the game [load/new/quit] ?

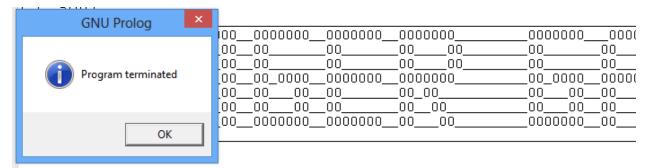
#### Gambar 2.15 : Game logic ketika menang.

```
| ?- status.
Health: 100
Hunger: 100
Thirst: 100
Weapon : none
Crap, take something already dude. Or do you want to die here?
/ ?- nap.
You have treated your wounds by take a nap. But hmmm ,I feel more hungry and thirsty
| ?- status.
Health: 120
Hunger: 85
Thirst: 85
Weapon : none
Crap, take something already dude. Or do you want to die here?
```

Gambar 2.16: nap (bonus).

Do you want to load, have a new game or quit from the game [load/new/quit] ? quit. are you sure to quit [yes/no]no.

Do you want to load, have a new game or quit from the game [load/new/quit] ?



Do you want to load, have a new game or quit from the game [load/new/quit] ?

are you sure to quit [yes/no] ves.

bye coward..

Gambar 2.17: quit( pada main menu).

```
| ?- e.
You're in open field
theres rice, it seems like it's edible
on your north there's fence
on your west there's forest
on your south there's open field
on your east there's forest
yes
| ?- e.
You're in forest
on your north there's fence
on your west there's open field
on your south there's forest
on your east there's open field
(16 ms) yes
| ?- quit.
_0000000___0000000___00__
_00____00___00__00_0
                                                             _00____00_
_00____00_
                                                                                                                       _00__0000000__0000000
_00__00___00
_00__00__00__00__
                                                                                                                        _00__0000000__0000000
__00_
                                _00__0000000__0000000__00_
                                                                   _00
                                                                                  0000000
                                                                                             _00
                                                                                                       _00__00
```

Do you want to load,have a new game or quit from the game [load/new/quit] ?

Gambar 2.17 : quit( pada in game).

# Bab 3

# Pembagian Kerja

Nama	Nim	Tugas
William Juniarta Hadiman	13516026	Membuat command saveGame dan loadGame.
		Melakukan debugging dan fixing.
Ahmad Izzan	13516116	Membuat command yang berhubungan dengan Map,enemy,move, attack dan membuat game logic.
		Melakukan debugging dan fixing.
Manasye Shousen Bukit	13516122	Membuat command yang berhubungan dengan player dan objek seperti use,take,dan drop,serta membuat command bonus.
		Melakukan testing,debugging,fixing
Juan Felix Parsaoran Tarigan	13516143	Membuat command yang berhubungan dengan main,storyline,effect,
		Melakukan testing, debugging dan fixing dan membuat laporan