## Project Progress Report

Name: Zhiwei Xin Andrew Id: zxin

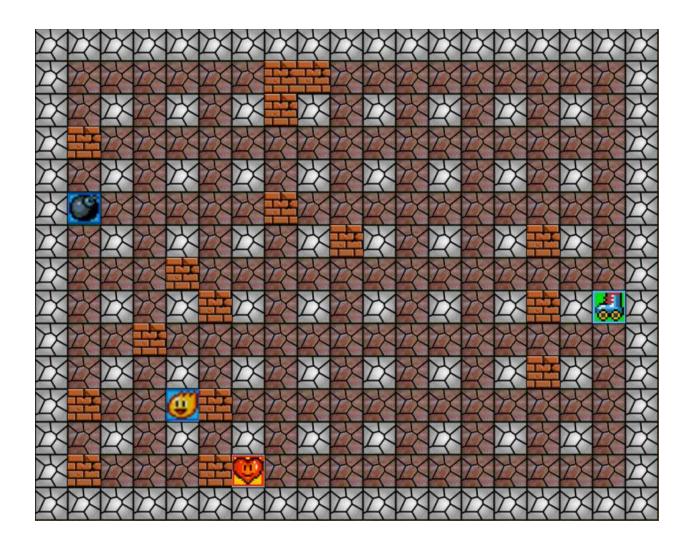
## **Brief Description**

The game can basically run. Most resources needed have been found, but most features are unimplemented.

## Screenshots



We can move the characters and the monsters can move itself, but collisions are not implemented



## Code snippets

I can provide the python files, but it seems code snippets are preferred.

If need python file, please contact me.

```
# This represents the bomb class.
import configure
import pygame

class Bomb(pygame.sprite.Sprite):
    def __init__ (self, player):
        pygame.init()
        pygame.sprite.Sprite.__init__ (self)
        self.c = configure.Configure()
        imagePath = self.c.IMAGE_PATH + "/bomb.png"
        self.image = pygame.image.load(imagePath).convert()
```

```
self.range = player.power # kill zone
        self.triggered = False
        self.countDown = 3 # how many seconds
        self.owner = player
        self.position = self.image.get rect()
        self.position = self.position.move((player.position.x,
                                            player.position.y))
        tsize = self.c.TILE SIZE
        self.rect = pygame.Rect(self.position[0],
    def countdown(self):
        self.countDown -= 1
    def explode(self):
        self.owner.curBombs += 1
# The Character Class
import configure
import copy
import pygame
class Character(pygame.sprite.Sprite):
    def init (self, idNum, position, thisType):
        self.c = configure.Configure() # some constant
        pygame.sprite.Sprite.__init__(self)
        pygame.init()
        self.type = thisType # players/ enemies
        size = (self.c.WIDTH, self.c.HEIGHT)
        self.screen = pygame.display.set mode(size)
        self.getImage("down")
        self.rect = self.image.get rect()
        self.position = self.image.get rect()
        self.move(position)
    def getImage(self, direction):
        self.direction = direction
```

```
if self.type == "players":
            imagePath = self.c.IMAGE PATH + "players/"
        else:
            imagePath = self.c.IMAGE PATH + "enemies/"
        self.image = pygame.image.load(imagePath).convert()
    def face(self, key):
        self.getImage(key)
    def moveSquare(self, key):
        if key == pygame.K RIGHT:
            self.face("right")
            return (1*self.c.TILE SIZE, 0)
        elif key == pygame.K LEFT:
            self.face("left")
            return (-1*self.c.TILE SIZE, 0)
        elif key == pygame.K UP:
            return (0, -1*self.c.TILE SIZE)
        elif key == pygame.K DOWN:
            return (0, 1 * self.c.TILE SIZE)
    def move(self, point):
        self.old = copy.copy(self.rect)
        dx, dy = point[0], point[1]
        self.rect.x, self.rect.y = self.rect.x +
dx, self.rect.y+dy
    def updateRect(self):
        tSize = self.c.TILE SIZE
    def update(self):
        self.updateRect()
    def innerRun(self):
       pygame.init()
```

```
screen = pygame.display.set mode(size)
        user = Character(1, (40, 40), "players")
        self.userGroup = pygame.sprite.Group(user)
        pygame.display.set caption("My Test")
        clock = pygame.time.Clock()
        while not done:
            for event in pygame.event.get():
                if event.type == pygame.QUIT:
                elif event.type == pygame.KEYDOWN:
                    if event.key in
[pygame.K LEFT, pygame.K RIGHT, pygame.K UP, pygame.K DOWN]:
                        point = user.moveSquare(event.key)
                        user.move(point)
            screen.fill((255,255,255))
            self.userGroup.draw(screen)
            pygame.display.flip()
            clock.tick(30)
```

```
pygame.guit()
# enemy
import pygame, character, random
class Enemy(character.Character):
    def init (self, idNum, position, thisType):
thisType)
    def movement(self):
        patterns = [pygame.K UP, pygame.K DOWN, pygame.K LEFT,
pygame.K RIGHT]
        return self.moveSquare(random.choice(patterns))
# The Game Menu
import pygame, configure, instructions, game, pickle, maps,
costumizedLevel
import highscore
PTS WIDTH = 1024 # pre screen width
PTS HEIGHT = 768 # pre Screen height
class TitleScreen(object):
    def init (self):
        self.c = configure.Configure()
        done = False
        pygame.init()
        clock = pygame.time.Clock()
        self.modifyMap = False
        while not done:
            self.screen = pygame.display.set mode([PTS WIDTH,
PTS HEIGHT])
           pygame.display.set caption("Bomberman")
```

```
bqImagePath = self.c.IMAGE PATH + "titleScreen.png"
            bgImage = pygame.image.load(bgImagePath).convert()
            bgImage = pygame.transform.scale(bgImage,
(PTS WIDTH, PTS HEIGHT))
            self.screen.blit(bgImage, [0, 0])
            pygame.mixer.music.load(self.c.AUDIO PATH +
            pygame.mixer.music.play()
            notValidOp = False
            while not notValidOp:
                pos = pygame.mouse.get pos()
                for event in pygame.event.get():
                    if event.type == pygame.QUIT:
                        notValidOp = not notValidOp
                        done = not done
                    elif event.type == pygame.KEYDOWN:
                        if event.key == pygame.K 1:
                            with open("saved.pickle", "rb") as
f:
                                self.total = pickle.load(f)
                            f.close()
                            self.playGame(self.c.SINGLE,
self.total)
                    elif event.type == pygame.MOUSEBUTTONDOWN:
                        if self.inBoundary(pos[0], pos[1], 25,
450, 250, 500):
                            costumizedLevel.CustomizedLevel()
for python3
                            notValidOp = not notValidOp
```

```
elif self.inBoundary(pos[0], pos[1],
25, 500, 250, 550):
                            pygame.mixer.music.fadeout(1000)
                            self.playGame(self.c.SINGLE, None)
                            notValidOp = not notValidOp
                        elif self.inBoundary(pos[0], pos[1],
25, 550, 250, 600):
                            pygame.mixer.music.fadeout(1000)
                            self.playGame(self.c.MULTI, None)
for python3
                            notValidOp = not notValidOp
                        elif self.inBoundary(pos[0], pos[1],
25, 600, 250, 650):
                            self.instructions()
                            notValidOp = not notValidOp
finished one op
video and music
                        elif self.inBoundary(pos[0], pos[1],
25, 650, 250, 700):
                            self.highScores()
                            notValidOp = not notValidOp
finished one op
                        elif self.inBoundary(pos[0], pos[1],
```

```
done = not done
    notValidOp = not notValidOp
    # wantToEnd = True

# Go ahead and update the screen with what

we've drawn.

pygame.display.flip()

# Limit to 60 frames per second
    clock.tick(self.c.FPS)

pygame.quit()

def inBoundary(self, x0, y0, x1, y1, x2, y2):
    if (x1 <= x0 <= x2) and (y1 <= y0 <= y2):
        return True
    return False

def instructions(self):
    instructions.Instructions()

def playGame(self, mode, saved):
    game.Game(mode, saved)

def highScores(self):
    hs = highscore.HighScores()
    hs.displayScores()</pre>
```