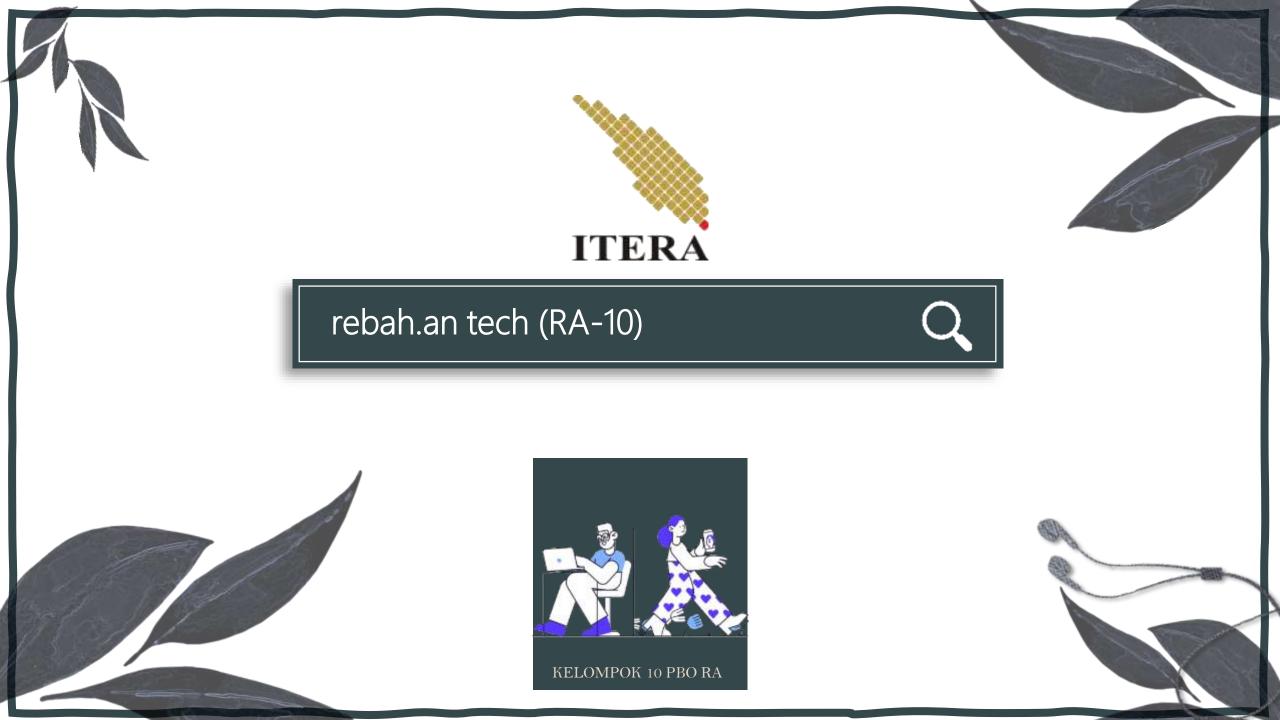
TUBES PBO







Anggota Kelompok





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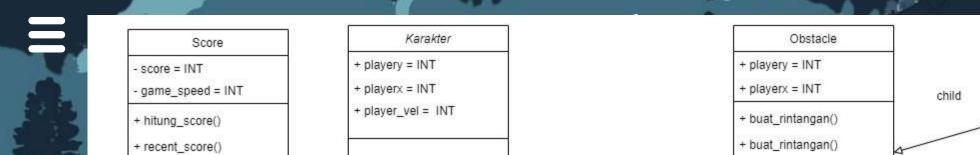


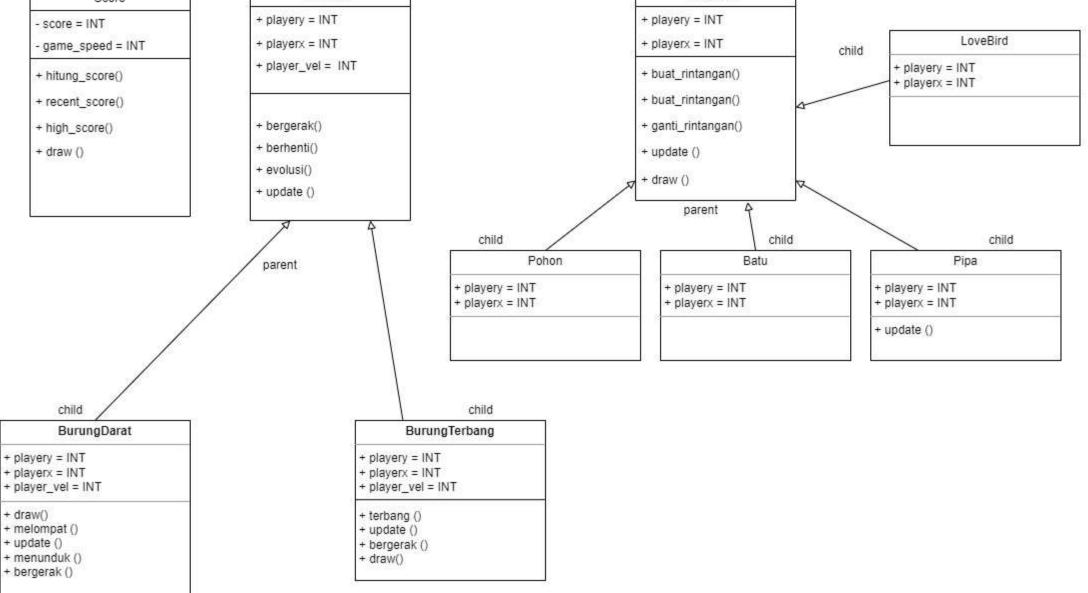
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```
from abc import abstractmethod
import pygame
import random
pygame.init()
#Membuat screen, title, dan icon
width = 950
height = 836
screen = pygame.display.set_mode((width,height))
font = pygame.font.Font('freesansbold.ttf',20)
pygame.display.set_caption ("Morphling")
icon = pygame.image.load ('Gambarrr/pterodactyl.png')
pygame.display.set_icon(icon)
background = pygame.image.load('Gambarrr/background.png')
```

rebah.an tech





```
class Karakter ():
    def __init__(self):
        self.playerx = 75
        self.playery = 570
        self.player_vel = 8
    def berhenti (self):
       pass
    def evolusi (self):
       pass
    @abstractmethod
    def update(self):
        pass
    @abstractmethod
    def bergerak (self):
       pass
```

```
class BurungDarat (Karakter):
   def __init__(self):
       Karakter().__init__()
       self.gojox = self.playerx
       self.gojoy = self.playery
       self.gojo_vel = self.player_vel
       self.lompat = False
       self.nunduk = False
   def draw (self, screen):
       screen.blit(Gojo, (self.gojox, self.gojoy))
   def melompat (self,user_input):
       if (self.lompat is False and user_input[pygame.K_UP] ) or (self.lompat is False and user_input[pygame.K_SPACE]):
           self.lompat = True
       if self.lompat is True:
           self.gojoy -= self.gojo_vel
           self.gojo_vel -= 0.1
           if self.gojo_vel < -self.player_vel:</pre>
               self.lompat = False
               self.gojo_vel = self.player_vel
   def menunduk (self,user_input):
        if (self.nunduk is False and user_input[pygame.K_DOWN] ) :
           self.nunduk = True
   def bergerak(self):
   def update (self, user_input):
```





```
class BurungTerbang(Karakter):
    def terbang (self):
        pass
    def update (self):
        pass
    def bergerak (self):
        pass
    def draw(self):
        pass
```

```
class Obstacle:
    def buat_rintangan(self, screen):
        pass
    def ganti_rintangan():
        pass
    def update():
        pass
    def draw():
        pass
```

```
class Pohon(Obstacle):
    pass
class Batu(Obstacle):
    pass
class LoveBird(Obstacle):
    pass
class Pipa(Obstacle):
    def update():
        pass
```





```
class Score:
   def hitung score():
       score = 0
       game speed = 20
       score+=1
       if score % 100 == 0:
            game speed +=1
       text = font.render("Score: " + str(score), True, (0, 0, 0))
       textRect = text.get rect()
       textRect.center = (800, 100)
       screen.blit(text, textRect)
   def recent score():
       pass
   def high_score():
        pass
```

```
player1 = BurungDarat()
running = True
i = 0
obstacles = []
while running:
    for event in pygame.event.get():
        if event.type == pygame.QUIT:
            running = False
    screen.fill((255,255,255))
    screen.blit(background, (i,0))
    screen.blit(background, (width+i,0))
    if i == -width:
        screen.blit(background, (width+i,0))
        i = 0
    i -= 0.1
    player1.draw(screen)
    user_input = pygame.key.get_pressed()
    player1.melompat(user_input)
    Score.hitung_score()
    pygame.display.update()
```

Untuk lebih jelas dalam memahami source code tersebut, berikut kami cantumkan link github: https://github.com/AhmadFadillah12/Rebah.an-tech.git





Dari design uml class dan potongan source code yang telah dipresentasikan mengenai game MORPHLING, kami memahami serta menerapkan 4 pilar utama dalam Pemrograman Berioerintasi Objek yaitu inheritance, abstraksi, enkapsulasi dan polymorphisme. Kelompok kami berusaha menerapkan konsep tersebut dengan harapan akan membuat programmer lain memahami 4 konsep utama Pemrograman Berorientasi Objek ketika memainkan game MORPHLING yang akan dibuat.



