Rogue Sweeper

From the Pythonic Pioneers

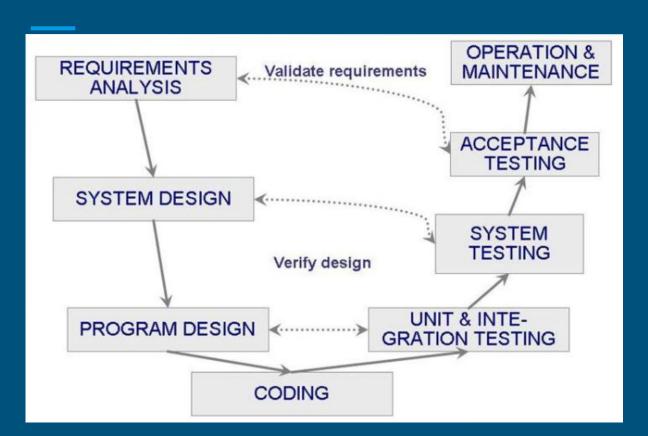
By: Josh Wiles, Logan Scheurer, Brody Richards, Aidan Mack

Rogue-Sweeper Overview

We are taking the classic minesweeper game and turning it into a roguelike.



Our Process Model: V-Model

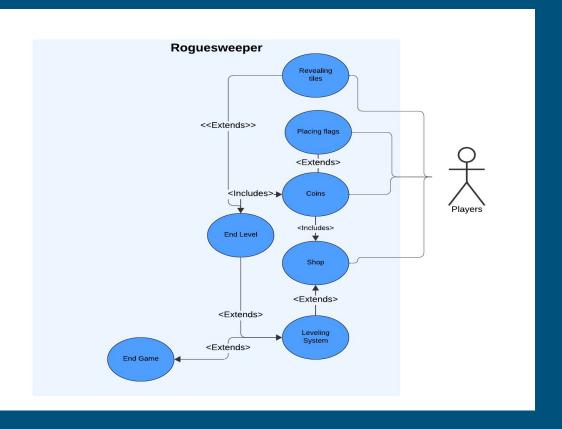


Technologies

For our project, we will be using python and pygame to create the board and implement the logic.



Use Case Diagram



Project Timeline - Gantt Chart

А	В	С	D	Е	F	G	Н	1
Names: Joshua Wiles, Logan Scheurer, Aiden Mack, Brody Richards	Sep 2024 - Dec 2024							
TASK: Minesweeper Roguelike	9/30 - 10/4	10/7 - 10/11	10/14 - 10/18	10/21 - 10/25	10/28 - 11/1	11/4 - 11/8	11/11 - 11/15	11/18 - 11/22
Phase 1 (Set-up) (9/29) - (10/19)								
Initial Research	Aiden/Logan	Aiden/Logan	Aiden/Logan					
Intial Front End Moc Up	Brody	Brody	Brody					
Use-Case Diagram		Josh	Josh					
Established Trello Board	Josh							
Set up version control/repository/markdown								
Fuctional vs Non-functional requirements								
Brief overview of the project								
Establish Communication								
Setup meeting times								
Phase 2 (Base Minesweeper Board) (10/20) - (11/15)								
Design Base Grid								
Minesweeper logic								
Minesweeper mine generation								
Flag system								
Number generation								
Simultanious testing								
UML Diagram								
Phase 3 (Roguelike Aspect)								
Establishing Style								
Shop								

What we have so far

```
class GUI:
def init (self) -> None:
    self.printed = 0
    pg.init()
    self.screen = pg.display.set mode((1280, 480), pg.SCALED)
    pg.display.set caption("RogueSweeper")
    # Create The Background
    self.background = pg.Surface(self.screen.get_size())
    self.background = self.background.convert()
    self.background.fill((170, 155, 187))
@classmethod
def load images(cls):
    def load image(count):
        SS = pg.image.load('./images/MS_Sprites.png')
         width = 17
        height = 16
        surf = pg.Surface((width, height), pg.SRCALPHA)
        surf.blit(55, (0, 0), pg.rect.Rect(width * (count % 8), height * (count // 8), width, height))
        surf scaled = pg.transform.scale(surf, (IMAGE SIZE, IMAGE SIZE)) # Change to image size
        return surf scaled
```