# TEAM VIRUS

## PYTHON ARCADE HUB

Batch 33 | Team 03

PRESS START

# PLAYER SELECT

## TEAM DETAILS

> **NAME:** Team Virus

> **BATCH:** 33

> **ID:** Team 03

> **MISSION:** Revive Retro Gaming

## SQUAD MEMBERS

> 👤 Sarthak

> 👤 Aman

> 👤 Hunny

> 👤 Srijan

> 👤 Rahul

# MISSION BRIEFING

## THE PROBLEM

> Scattered game files.

> No unified user interface.
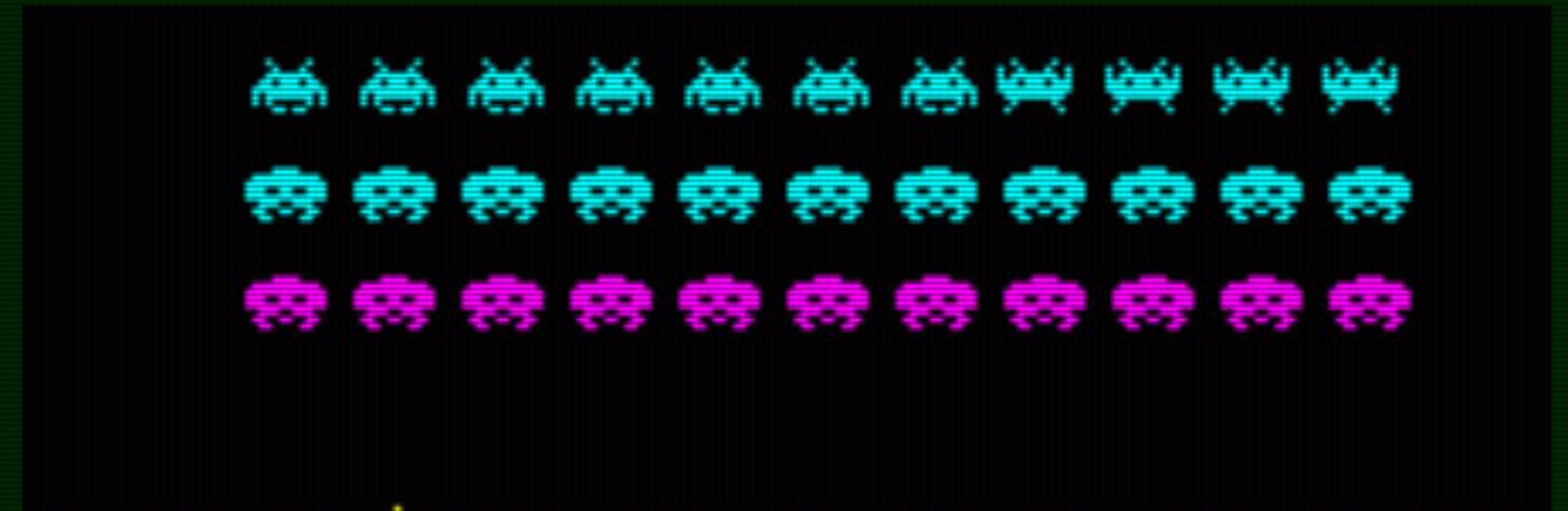
> Difficult to navigate between programs.

## THE SOLUTION

> **Unified GUI:** A central menu to launch all games.

> **Modular:** 4 distinct games in one package.

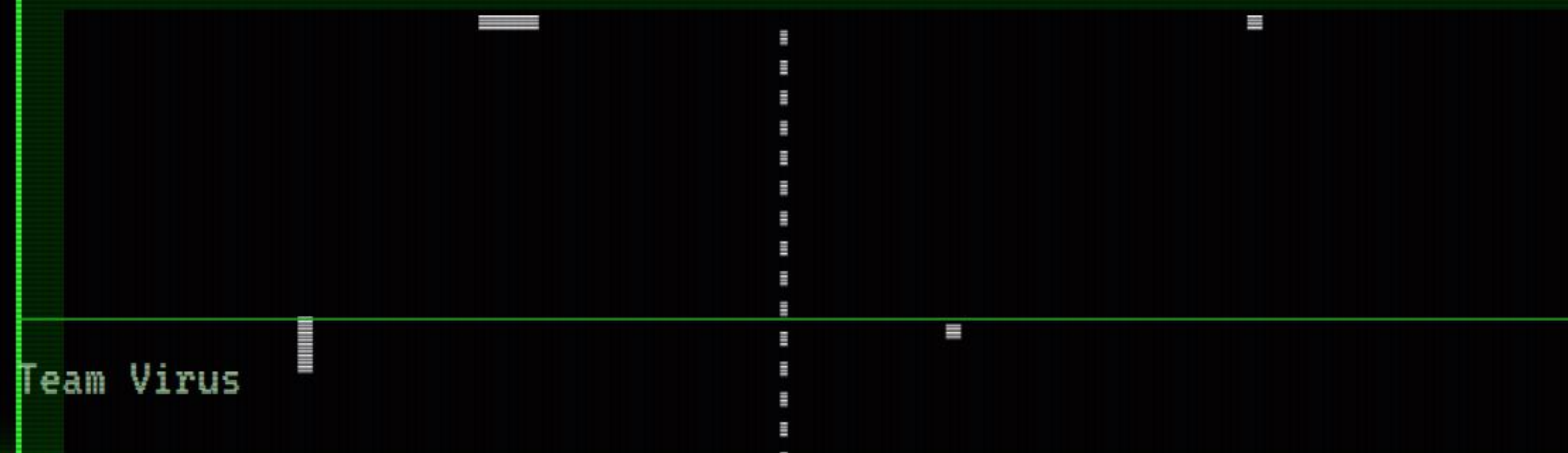> **Seamless:** Smooth transitions and consistent controls.

# GAME LIBRARY



## SNAKE

Logic: Arrays & Collision



## SPACE INVADERS

Logic: Projectiles & AI





Team Virus                                                                03/07

# SYSTEM ARCHITECTURE

```python
import pygame
import sys

def main_menu():
    while True:
        check_events()
        # Launch Game
        if btn_snake.click():
            run_snake()
```

## TECH STACK

> **Library:** Pygame (Graphics)

> **Modules:** Random, Math, OS

> **Logic:** Event-driven programming. The Main Menu acts as the "Parent" loop that calls "Child" game functions.

# LEADERBOARD / ROLES

| PLAYER | CONTRIBUTION (HIGH SCORE) |
|--------|---------------------------|
| Sarthak (Lead) | Menu GUI, Integration & Debugging |
| Aman | Space Invaders Logic & Asset Design |
| Hunny | Snake Game Algorithms & Score Tracking |
| Srijan | Pong Physics & Collision Logic |
| Rahul | Flappy Bird Gravity & Game Loops |

# DLC & UPDATES

------------------------------------------------

> **High Score Database:** Implement SQL connectivity to save scores permanently.

> **Multiplayer:** LAN support for Pong and Space Invaders.

> **New Games:** Adding Tetris and Pac-Man logic.

> **Audio:** Adding 8-bit sound effects and background music.

# GAME OVER

THANK YOU FOR PLAYING

# IMAGE SOURCES



https://media.istockphoto.com/id/2174107271/vector/mobile-iconic-retro-game-concept-pixel-snake-on-green-cell-phone-screen-classic-game-vector.jpg?s=612x612&w=0&k=20&c=w3m_yr7BcQCXqUanCYEcwNGQpGUsKmozPSX2YoPnaBA=

Source: www.istockphoto.com



https://cdn.mobygames.com/screenshots/16382538-space-invaders-arcade-start-up-position.png

Source: www.mobygames.com



https://upload.wikimedia.org/wikipedia/commons/f/f8/Pong.png

Source: commons.wikimedia.org



https://img.itch.zone/aW1nLzE0MTE1NDAxLnBuZw==/original/4lR3PT.png

Source: megacrash.itch.io



https://static.vecteezy.com/system/resources/previews/045/936/477/non_2x/green-digital-code-rain-in-a-matrix-inspired-futuristic-style-high-tech-backdrop-with-glowing-binary-characters-vector.jpg

Source: www.vecteezy.com