



TEB1043- Object Oriented & Programming
MAY 2025

PROJECT DOCUMENTATION

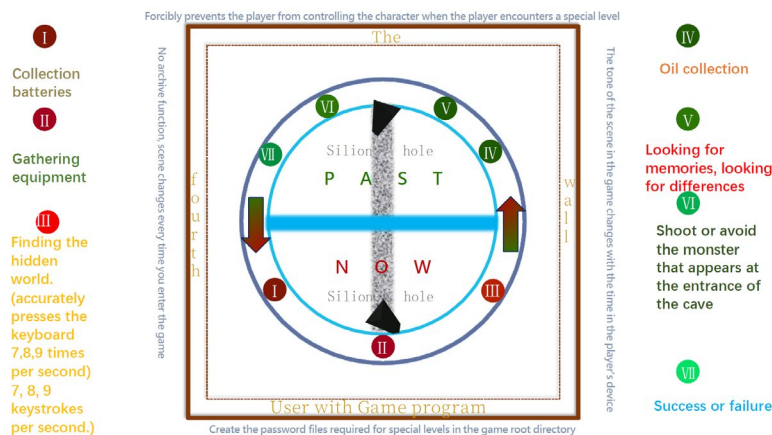
LECTURER:
NORDIN ZAKARIA

Team Members:

No	Name	Student ID	Programme
1	BAI JIAMING	24007821	Information Technology
2	PANG YIYANG	24006889	Information Technology
3	XU WEIKANG	24004647	Information Technology
4	SONG XINGCHEN	24006343	Information Technology
5	Ayman IsamEldinIbrahim AbuAgla	22012347	Information Technology

Project Description

Game Overview and Backstory



Design Concept: In the current context where environmental crises are escalating, people often lack the sense of urgency and motivation for environmental protection actions. This work aims to evoke people's awe and sense of responsibility towards nature, guiding players to actively engage in environmental protection. Through the gaming experience, players will understand that humans and nature co-exist symbiotically. Only by adhering to the original aspiration of protecting nature and actively implementing environmental protection measures can we break the deadlock of environmental degradation and achieve sustainable development.

Story Background: Due to humanity's long-term over-exploitation and profligate use of natural resources, the Earth's resources are on the verge of depletion. As a member of the Time Action Team, the protagonist embarks on a journey to search for energy and oil and activate the "Time Hole" to travel back to the past. Along the way, the protagonist has to overcome numerous obstacles resulting from ecological collapse. Eventually, the desperate environmental situation of the future will be presented to humans in the past, ringing the alarm bell for environmental protection and urging people to cherish resources and safeguard the Earth's homeland.

Game Features: By setting up certain hints or special operation methods, the game attempts to break the "fourth wall" between users and the game program. This is designed to provide users with a brand-new gaming experience and help them gain a deeper reflection on the game's plot while playing.

Gameplay Overview

Level 1: batteries switch on machine

The electricity is a massive energy to revival the earth in the future world. First, you need collection enough batteries that can switch machine.

Level 2: life base on water

The water still is a very important in human daily life, human can not live leave it. You need collection water and help human who shortage on water.

Level 3: Important currency

Gold always is a essential currency from ancient to today. But it very shortage in future world. You need bring these back to future.

Level 4: go back

Now, you collection all objects that needly in future world, it is time start timemachine go back to future. You find the switch of timemachine and start it.

Objective

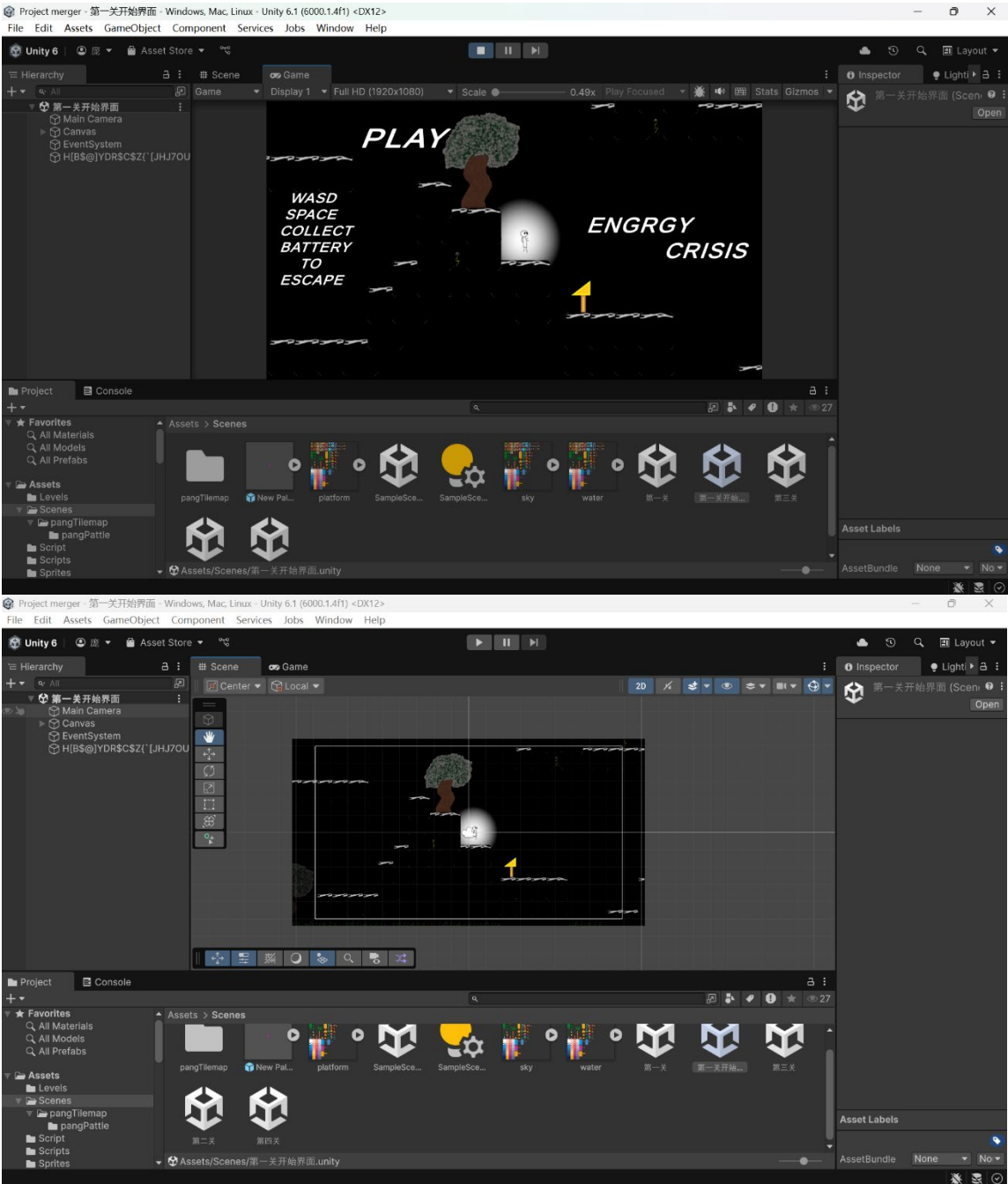
You need collection all objects in the game map and take them through all the game map, and find the switch of timemachine and go back to the future.

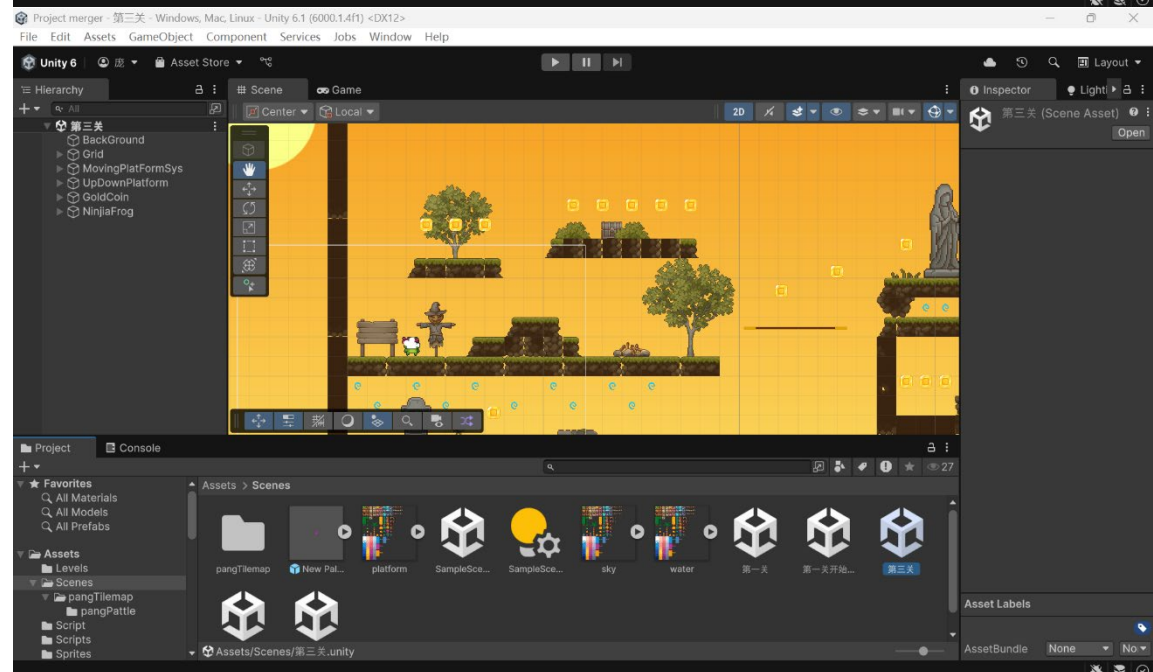
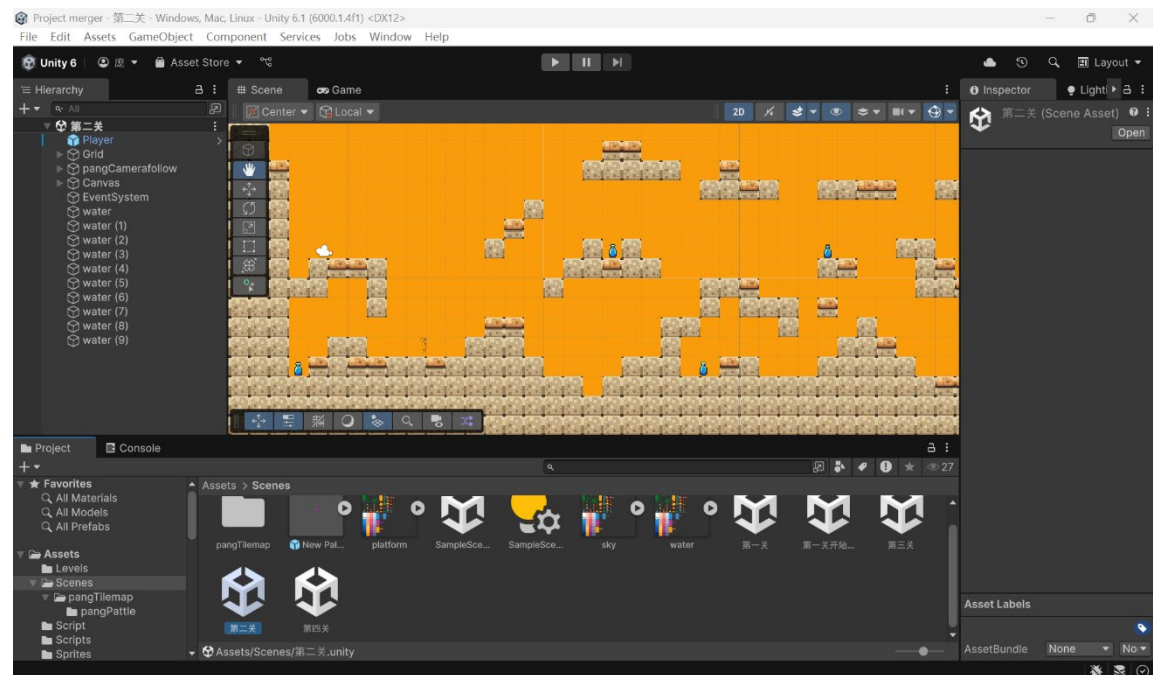
Team organization and contributions

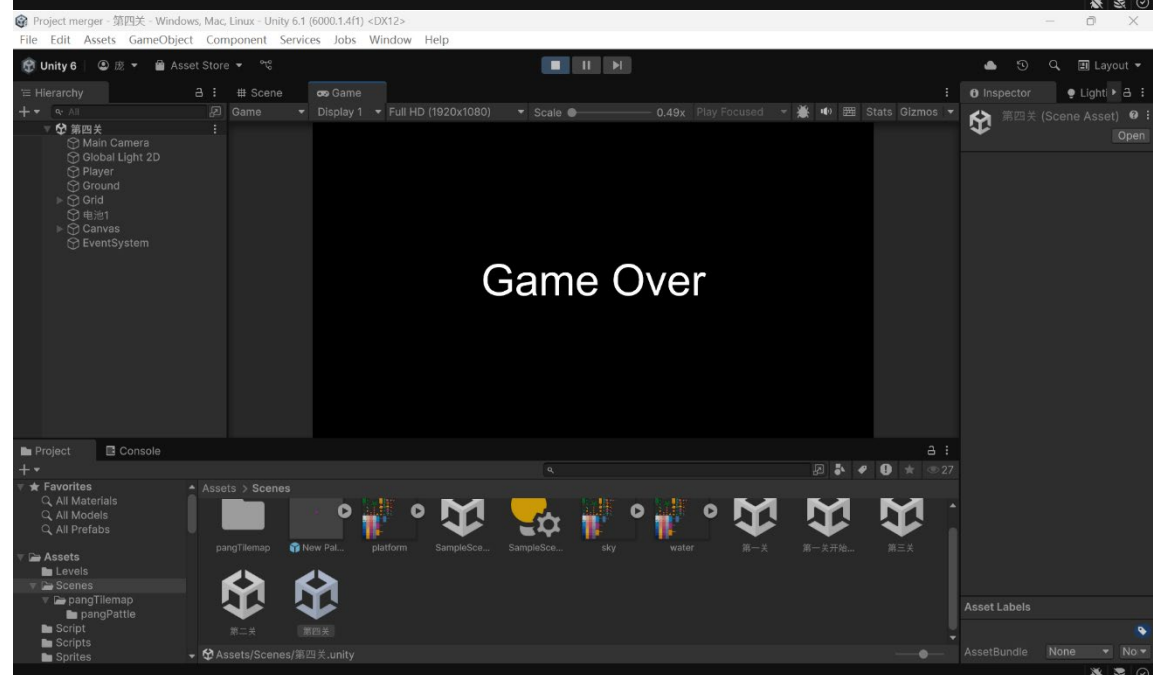
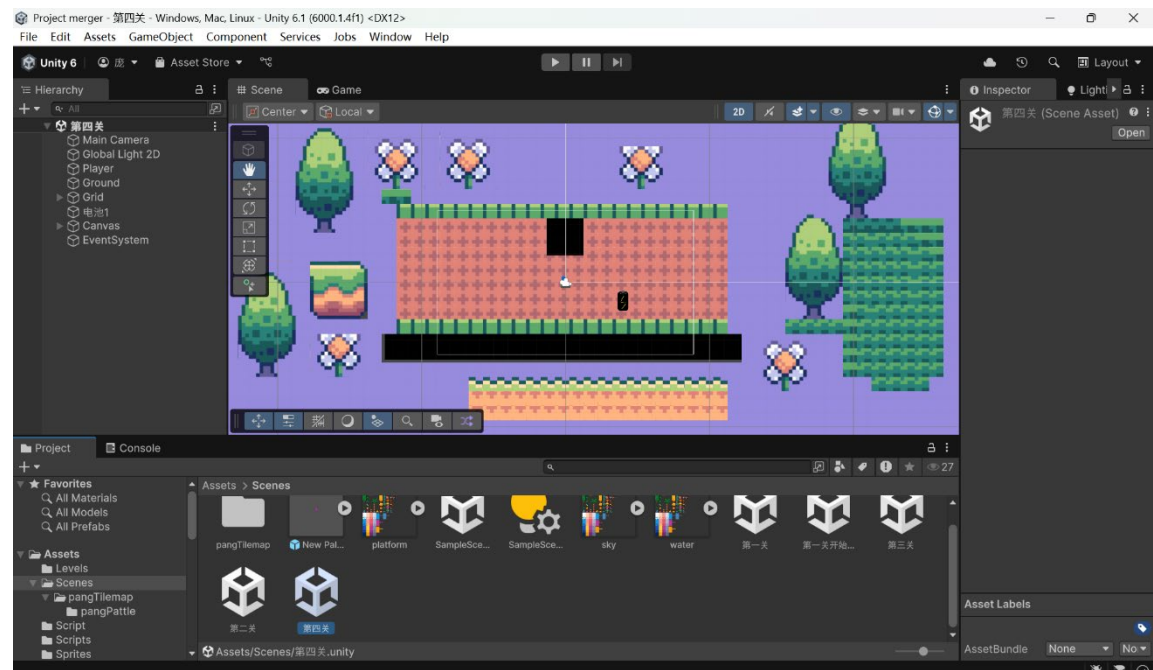
Name	Contribution
BAI JIAMING	Planning and designing the background and flow of the entire game, creating the start and end user interfaces, mapping and coding for the first level. Make final adjustments to the game. Recorded videos and uploaded them to YouTube. Completed UML
PANG YIYANG	Coordinated the full division of labour to map and code the second level. Make final adjustments to the game. Recorded videos and uploaded files for the entire game on github.
SONG XINGCHEN	Make final adjustments to the game. Help complete the maps for levels 1 and 2 Help with UML completion.

XU WEIKANG	Map and code the third level. Record video.
Ayman IsamEldinIbrahim AbuAgla	Map and code the fourth level. Record video.

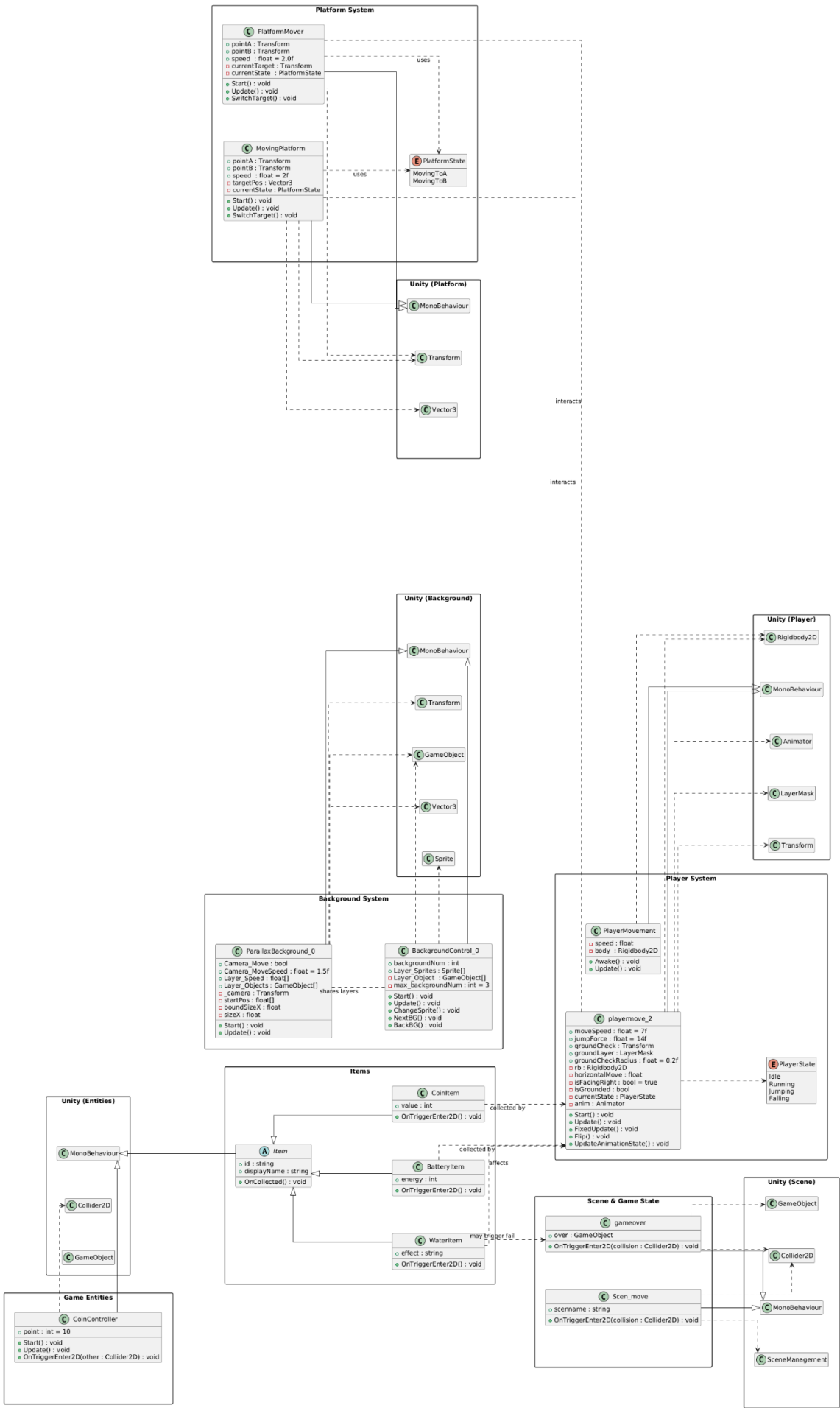
Screenshot



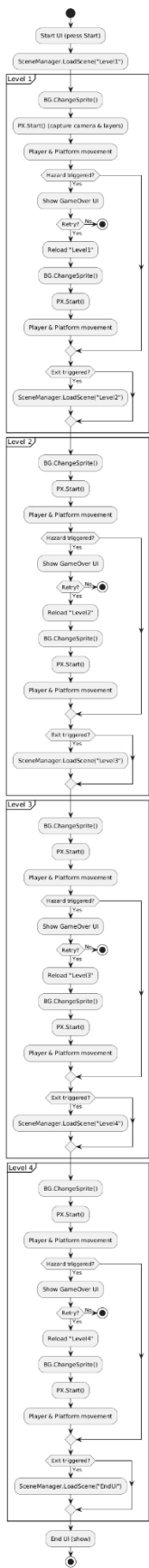
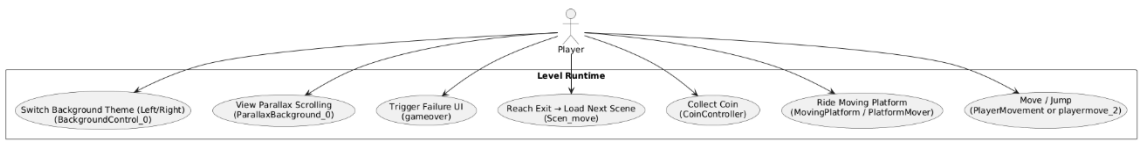


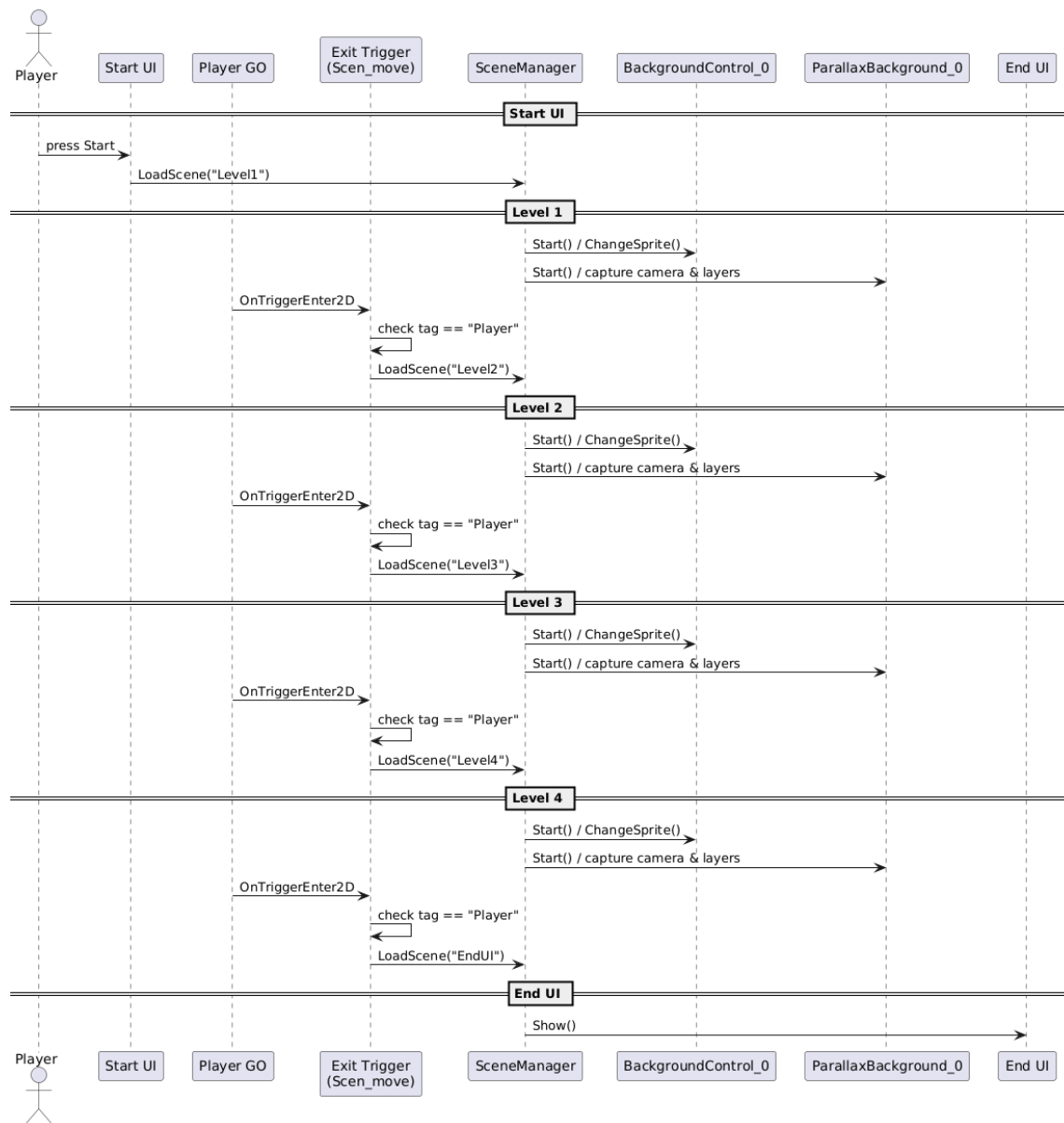


UML DIAGRAM



OTHER DIAGRAM





LINKS

GitHub link:

<https://github.com/PANG499/OOP-group-project>

<https://github.com/PANG499/OOP-group-project.git>

Video capture link:

<https://youtu.be/A10jSzRz4P4>