

[CS-526] Final Report

Plan Odyssey USCGames

Team: Buffer Overflow

- Junhao Wang
- Xun Zhan
- Bhavin Shah

Team: Buffer Overflow



Junhao Wang

MS CS

Scene Design Player Control Shader Effect Animations Trailer & Slides



Xun Zhan

MS CS

UI Design Simulation Shader Effect Animal Flock Gameplay Demo



Bhavin Shah

MS CS

Gameplay Task System Snapshot Player Control Mobile Build

Background Story

After 100 years, brilliant scientists invent light-speed spacecraft that sends adventurers to explore human-friendly planets. — Plan Odyssey

Exploration is filled with curiosity, hope, and peace, without envy, hostility, violence, and risk.

You play as an ambitious astronaut who is employed to complete multiple tasks on those marvelous outlands.

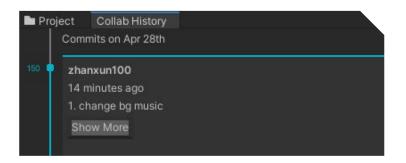


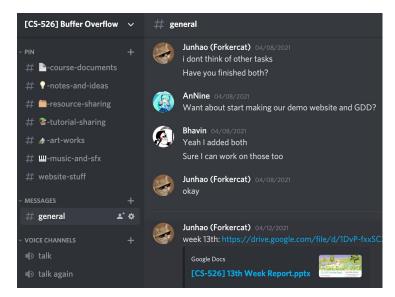
Overview

- Collab History: **150 commits**
- Lines of Code: > 10,000

Dev Folder Size: 11.24 GB

Discord: ~10 channels





Task Completion

Done

Partial

Pending

Canceled

Snapshot Mode	Task System	Team Website & Trailer	Gameplay Demo
Random Dust Particle	Cloud Shader	Water Shader	Core Gameplay
Searchlight & Shader	Wind Controller & Wind FX	Compute Shader & Grass	Grass Painter Tool
Tooltip for Object Detection	Gradient Skybox	Planet Controller	Day / Night Cycle
Scene Design & Creation	Demo Scene	NavMesh & Animal Al	Behavioral Tree
UGUI	FairyGUI	UI System	Topographic Scanner
Hologram Shaders	URP Setup	Custom Render Pass	Touch Control
VFX (smoke, flame, etc)	Unity Collab Setup	Lightmap / Light Probe	Post-Processing
Player Controller	Jetpack Rocket	Player Animator	Sound FX (footstep, etc)

^{*} Items in bold are finished after midterm

Game Trailer



YouTube Link

Home Scene & Logo



Start Scene

Planet Andoria



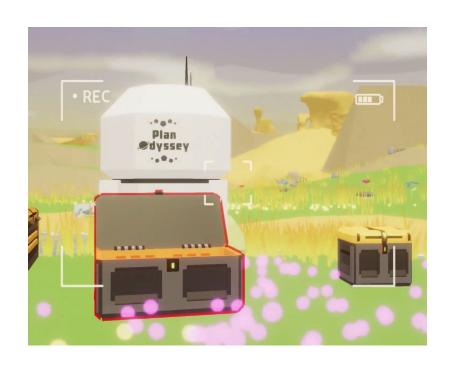
Scene Size: 1000 x 600 M²

Flock Simulation



Bird & Butterfly

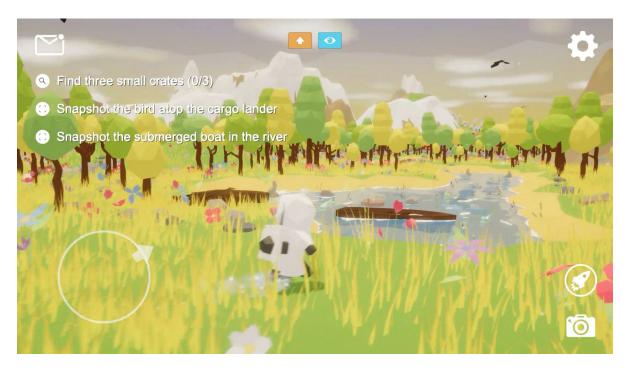
Gameplay: Task and Achievement





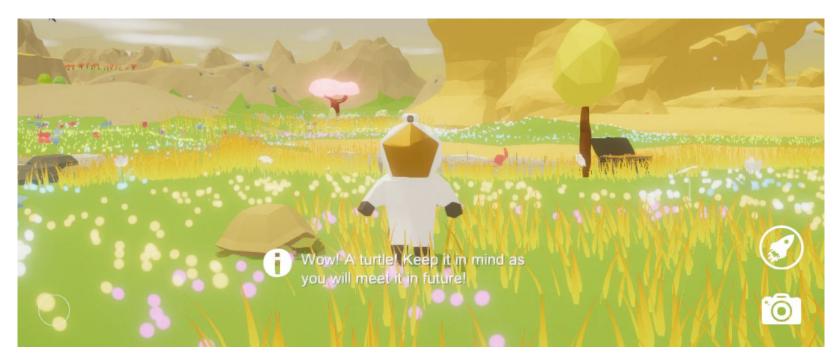
Snapshot Achievement

Gameplay UI



FairyGUI: Joystick, Task List

Gameplay UI



Tooltip: when players are nearby

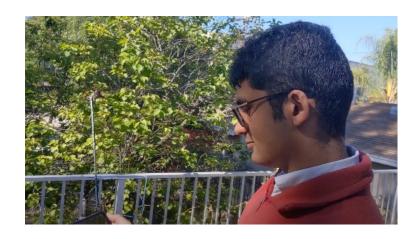
Gameplay Demo



YouTube Link

Build On Mobile





Documentations

Website: <u>Link</u>

Game Design Document: <u>Link</u>



Credits & Thanks To

Character:

Stylized Astronaut - PULSAR BYTES

Terrain:

Low Poly Modular Terrain Pack - LMHPOLY

Low Poly Models:

- Low Poly Forest Starter Pack Glyph Projects
- Low Poly Vegetation Pack LMHPOLY
- Low Poly Rock Pack Broken Vector
- Low Poly Tree Pack Broken Vector
- Pixels Boxes low poly IDALGAME
- Polyverse Skies BOXOPHOBIC
- Simplistic Low Poly Nature Acorn Bringer
- Space Polygons: Lander Pack PULSAR BYTES
- Stylized Crystal LowlyPoly
- The Low-Poly Sci Fi Nature Pack xzippyzachx
- Boats Low Poly Alstra Infinite
- Fissure: Low Poly Caverns Distant lands

Audio & SFX:

- Classic Footstep SFX Matthew Anett
- Footsteps Essentials Nox Sound

Music:

 Cinematic & Atmospheric Modern Music Collection -Hidden Verses

Icons:

- Cartoon FX Free Package FXIFIED
- 40+ Simple Icons Free shuvadanil

Tools:

Grass Painter - Minions Art

Tutorial Makers:



















Thank you!