組別 Team ID：202327

專題屬性 Category：多媒體應用 (Multimedia Applications)

專題名稱 Project：AI 女友模擬器（AI Girlfriend Simulator）

一、指導老師 Advisor：吳信成老師（Prof. Hsin-Cheng Wu）

曾顯文老師（Prof. Hsien-Wen Tseng）

二、 組員 Team members：王凱立（10914149）

三、 系統環境 System environment：

(1) 軟體 Software：

作業系統 Operating System：Windows 10/11

開發語言 Programing language：Blueprints、C++

開發工具 Toolkits： Unreal Engine 5、Visual Studio Code、Fotor

VRoid Studio、Premiere PRO、OPEN AI

Chat GPT、Azure、Trello、GitMind

硬體 Hardware：

CPU: Intel® Core™ i7-10750H 以上

儲存空間:10 GB 以上　　　網際網路:10 Mbps 以上

記憶體:16 GB RAM 以上　　顯示卡: RTX 2060 以上

四、 簡介：

(1) 遊戲基本概念

透過對話與互動，跟女友進行交流，可以自行設計自己的女友。

女友會記住所有的對話並根據心情做出回應，不是普通的固定模板 NPC，請把他當成真正的女朋友對待。

(2) 特色

● 3D 模擬類遊戲:玩家將可以給自己的女友設定想要的性格與背景，將其提交至 Open AI 來進行人格的生成。

● 非固定模板:AI 會根據每次的對話及回應來提供非模板化的回答，使每個玩家都有屬於自己的體驗。

● 舒適的居家場景:由開發者親自設計的二層樓小別墅，讓玩家有一個舒服的環境享受約會。

● 可塑性高:文本及語音都是由 AI 生成的，只要樣本數足夠，想要什麼聲音都可以自己訓練，角色後續也能導入工作坊,讓玩家自行設計自己的女友。

● AI 記憶力:透過手動儲存快速將 AI 的記憶進行存檔，以便下次回來繼續享受甜蜜時光。

五、 Introduction：

(1) Basic Game Concept：

Through conversation and interaction, players engage in communication with their girlfriends and have the freedom to design their own girlfriends. The girlfriend will remember all conversations and respond based on her mood, not as a typical fixed-template NPC. Treat her as if she were a real girlfriend.

(2) Features：

● 3D Simulation Game: Players can customize their girlfriend's personality and background and submit it to Open AI for personality generation.

● Non-Fixed Templates: The AI provides non-template responses based on each conversation and interaction, creating a unique experience for every player.

● Comfortable Home Setting: A two-story villa personally designed by the developer, providing players with a comfortable environment for their dates.

● High Customizability: Both text and voice are generated by AI, and with a sufficient number of samples, you can train any voice you desire. Players can also import characters from the workshop to design their own girlfriends.

● AI Memory: Save AI's memory manually for quick retrieval, allowing you to continue enjoying sweet moments in your next visit.