AN INTELLIGENT SYSTEM TO GAMIFY MENTAL HEALTH EDUCATION AND DISSOCIATIVE IDENTITY DISORDER AWARENESS USING ARTIFICIAL INTELLIGENCE

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ABSTRACT

The Echoes Within is a visual-novel style game designed to educate players about Dissociative Identity Disorder (DID) [1]. The game uses branching narratives where players develop different "alters" based on their choices, with each alter influencing available options. This system not only deepens gameplay but also simulates the complexities of DID, encouraging replay for a fuller perspective. To support learning beyond the story, we implemented an integrated AI chatbot [2]. Unlike general-purpose conversational tools, this chatbot is restricted to answering factual questions about DID, reinforcing that the visual novel remains the primary educational component.

To evaluate the AI's reliability, we conducted an experiment with 15 core questions about DID, rating responses on accuracy, clarity, and avoidance of misinformation. Results averaged 4.6/5, confirming high accuracy but highlighting the need for safeguards. Moving forward, we plan to strengthen mechanisms against manipulation, misinformation, and unsafe interactions while exploring tighter integration between narrative flow and AI fact delivery.

KEYWORDS

Dissociative Identity Disorder, Mental Health Education, Unity Game, ChatGPT

1. Introduction

Dissociative Identity Disorder, frequently abbreviated as DID, and once referred to as Multiple Personality Disorder (MPD), is an uncommon yet sensationalized and misunderstood mental disorder [3]. According to the Cleveland Clinic, Dissociative Identity Disorder is a rare mental health condition involving the perception of several personalities in one's subconscious that can control a patient and frequently switch between one another [4]. Dissociative Identity Disorder is generally believed to be caused by repressed and untreated traumatic events in a person's life, and manifests itself as a coping mechanism. These separated identities are called "alters," and can appear to have their own separated identities, memories, and behaviors. Dissociative Identity Disorder frequently can cause feelings of confusion, frustration, and amnesia within patients.

Dissociative Identity Disorder is rare; only 1.5% of people within the United States suffer from it. But even so, its depiction within popular media and as a part of popular consensus is problematic. Most depictions of Dissociative Identity Disorder within pop culture are inaccurate and have long perpetuated the association between Dissociative Identity Disorder and psychotic behavior. The film Sybil, for example, claims to depict a realistic representation of DID through its main character, Shirley Mason, only for it to be revealed in real life that Shirley Mason's DID was completely falsified for media attention. Even in the modern day this issue perpetuates itself. In the movie Split, the main character, Kevin, has DID and has 23 personalities, with a secret 24th personality named "The Beast" with a violent, psychotic personality and superhuman strength – a clear use of DID for sensationalism.

Unflattering depictions of DID within the public, a disorder that affects a small but not insignificant amount of people, is something that must be demystified and is the main motivator for this project.

Academic researchers Gianluca Santoro et al. in "Playing with identities: the representation of dissociative identity disorder in the videogame 'Who am I?'" analyze a visual novel where players guide counseling sessions toward "integration." The game depicts memory gaps and identity conflicts to foster empathy but oversimplifies therapy, ignores daily realities, and lacks adaptive learning. Our project improves this with an AI chatbot, real-time Q&A, and practical daily-life focus. Secondly, in "An Online Educational Program for Individuals with Dissociative Identity Disorder," Bethany Brand et al. describe structured online modules teaching symptoms and coping strategies. Effective at increasing knowledge, it remains static and limited to diagnosed individuals. Our approach is interactive, offering adaptive learning and lived-experience narratives. Lastly, Rochelle Whitley et al. in "Can participatory video reduce mental illness stigma?" show that co-created videos reduced stigma and improved understanding. However, PV is broad, not DID-specific, and lacks interactivity. Our project centers on DID, combining narrative immersion with adaptive chatbot engagement.

We propose that in order to successfully educate the public about the nature of Dissociative Identity Disorder, we will make a game that highlights the true nature of the disorder. This interactive game will allow players to understand the perspective of those suffering from DID by playing as a character with DID who must navigate their daily life with the condition and understand how alters affect one's perception of reality. In addition, we propose that this system should also be integrated with generative AI systems (particularly LLMs) [5]. This integration of AI will answer questions from users directly about DID and clarify myths and misconceptions about the disorder. We believe the combination of these two factors will contribute to a game that holistically serves as a way to engage with the public on their perception of and educate them about Dissociative Identity Disorder.

This game-based approach is effective as we believe it will immerse players in a lived experience of someone with the disorder. This will allow players to emphasize with those affected by Dissociative Identity Disorder. The addition of the AI chatbot will also allow users to get direct answers about their preconceptions about DID and further promote understanding and breaking down harmful stereotypes. The use of a game experience will also set this apart from other methods of public awareness surrounding Dissociative Identity Disorder. More experiential approaches to education can theoretically leave a more lasting, personal impact than traditional forms of education and awareness.

Since a core part of the program involves the use of a generative AI component, we felt it pertinent to test whether the AI was accurate in its information when it came to answering questions about DID [6]. In our experiment, we asked the model 15 questions and rated its

responses with regards to accuracy, avoiding misinformation, and being succinct and clear. These questions were selected as core fundamental questions about DID that the model should never get wrong. Additionally, we believed that these would be the most common questions asked by users, further necessitating that we ensure that the model's accuracy is consistent. We found that generally most responses were accurate with an average quality score of 4.6 out of 5, indicating that the model was able to correctly answer questions about DID. We believe a follow up experiment would involve testing the model to see if it can avoid manipulation or hallucination.

2. CHALLENGES

In order to build the project, a few challenges have been identified as follows.

2.1. AI Chatbot Guardrails for Accurate DID Education

One major component of this program would be the integration of a generative AI chatbot. Using an AI chatbot in order to answer questions about DID to players may be very beneficial and educational, but if used incorrectly, can easily lead to more misinformation and confusion. It is thus critical that the system prompt utilized within this application introduces guardrails for the Large Language Model (LLM) that avoids it from several issues that commonly plague AI-systems [7]. For instance, it is critical that the AI must not hallucinate, as it would provide wrong information. It must also not stray from its mission of being mainly a DID educational source; it is imperative that the AI does not act like or is coerced into acting like a therapist or in some way validate someone's delusions (for instance, if someone who had DID tried to convince the model that their alters were real).

2.2. Authentic Turn-Based Dialogue Design

Another major component of this program would be the turn-based dialogue options for the game itself. The game framework or architecture is important from a game design standpoint. The game cannot be frustrating, as it would drive away users and ultimately undermine the game's purpose as an awareness mechanism. At the same time, the game cannot lean too hard into traditional game elements, such as a score system. Gamifying the experience too much can make the game appear inauthentic in its mission, and also encourage users to treat the game as just a game, not as an educational tool.

2.3. Calm and Authentic Game Presentation

It is lastly important that the game's presentation, not just its design, is properly executed as well. Failure to frame the game correctly using audio and aesthetic cues can lead to users not taking the game seriously, or making the game appear inauthentic. To mitigate this, we believe that it is important for the game to create a calming, welcoming atmosphere, with soft colors to invite people to relax. It is critical that the game at no point attempts to "dramatize" DID with use of provocative, violent, or overdramatic imagery or audio cues. Executing this concept correctly involves careful consideration and thinking.

3. SOLUTION

The game, known as "The Echoes Within", is a visual-novel styled game about Dissociative Identity Disorder. More specifically, this type of game allows players to experience a "choose-your-own-adventure" styled story, where the player is placed into several narrative events and must choose how to proceed. Players will also develop different alters as the game progresses –

these alters differ based on the narrative path the player has chosen. Different alters provide different sets of choices, further complicating gameplay and narrative decisions. This system was the most appropriate for educating players about DID, as it allows them to understand the perspective of those with the disorder while still giving players the agency to make their own choices in each situation. It also encourages the players to replay and try the game again, but under different paths. The hope is ultimately that players will gain a holistic understanding of DID by experiencing different gameplay paths and making different decisions.

Secondly, there exists a separated AI chatbot companion in the game that allows players to ask questions about DID that the narrative game itself did not address. This chatbot is not designed to be a usual conversational tool like how ChatGPT is utilized in other apps and programs, but instead to be a simple question answering tool so that users do not depend on it for therapeutic or counseling services [8]. It also reinforces the fact that the visual novel portion is the main draw to the game, and that the AI chatbot is simply a way to enhance a user's knowledge.

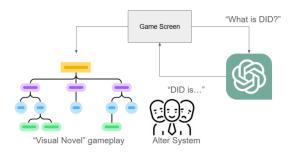


Figure 1. Overview of the solution

One of the core integral parts of the program is the use of a generative AI chatbot. We found it necessary to include a chatbot component to the program to fill in knowledge gaps that a player would have over the course of their regular gameplay. The AI would be able to give succinct, clear information to answer their questions.



Figure 2. Screenshot of chatbot

```
rivate IEnumerator SendChatRequest(string message, string systemPrompt)
  ChatRequest request = new ChatRequest
       messages = new ChatMessage[]
           new ChatMessage { role = "system", content = systemPrompt },
new ChatMessage { role = "user", content = message }
  string jsonData = JsonConvert.SerializeObject(request);
  using (UnityWebRequest webRequest = new UnityWebRequest(API_URL, "POST"))
       byte[] bodyRaw = Encoding.UTF8.GetBytes(jsonData);
      webRequest.uploadHandler = new UploadHandlerRaw(bodyRaw);
webRequest.downloadHandler = new DownloadHandlerBuffer();
      webRequest.SetRequestHeader("Content-Type", "application/json");
webRequest.SetRequestHeader("Authorization", "Bearer " + apiKey);
       yield return webRequest.SendWebRequest();
       if (webRequest.result == UnityWebRequest.Result.Success)
            string responseText = webRequest.downloadHandler.text;
           ChatResponse response = JsonConvert.DeserializeObject<ChatResponse>(responseText)
            string aiReply = response.choices[0].message.content;
           Debug.Log("AI Response: " + aiReply);
           OnAIResponseReceived(aiReply);
chatUI.OnAIResponse(aiReply);
           Debug.LogError("Error: " + webRequest.error);
```

Figure 3. Screenshot of code 1

The Unity scene utilizes a layout of UI components that form a typical chatbot UI framework. A user is able to enter their request through a textbox at the bottom named a TextMeshProUGUI component. A "submit" button allows the user to submit their request and it invokes the given section of code. This program utilizes the OpenAI library in order to request services from the ChatGPT API [9][10]. The model is fed two items; the user's request, and also a "system prompt", which instructs a ChatGPT model with context and information so that it can serve the needs of the user. The system prompt in this program lets the model know that it must respond to questions about Disassociative Identity Disorder while not attempting to validate existing claims or act as a therapist. User's requests are not held in memory; this is done in order to ensure that the model's context window is not affected by repeated requests and that the model acts strictly as a question-and-answer system, not as a fully fledged chatbot.

The secondary system is the dialogue system, which brings players along a narrative in which they can experience how it feels to have DID. Throughout this process, users will engage in branching pathways and encounter new alters that affect how they act throughout the story.



Figure 4. Screenshot of new alter developed page

```
// Move onto the next node.
// If there is no next node, this conversation is over and we should move on to the next one or load a different scene.
!reference
public void Start_Next_Node()
{
    cur_node++;
    if (cur_node < all_nodes.Length)
        Start_Node();
    else
    {
        Finish_Conversation();
    }
}

// Runs the current node
4 references
public void Start_Node()
{
    if (cur_node < all_nodes.Length)
        | all_nodes[cur_node].Run_Node();
}
!reference
public void Go_Back_One_Node()
{
    if (active && cur_node > 0)
    {
        UIManager.ui_manager.text_panel.text = "";
        ullManager.ui_manager.speaker_panel.text = "";
        all_nodes[cur_node].Stop_Node();
        cur_node--;
        Start_Node();
}
```

Figure 5. Screenshot of code 2

The core of the dialogue system in this game utilizes a node-based framework. This makes it easy to have branching pathways, as the story of the game can be represented simply as a graph. All gameplay interactions can thus be represented as a "node" event which has at least one child node, representing a choice the player can make. The code above shows a few functions that are invoked as the player continues down the story. Start_Node invokes a function within the user's current node (or their current story event), which will bring up UI elements, show dialogue, and present other auditory or visual information. When the user selects an option, the function Start_Next_Node will be involved and the cycle will repeat itself as the user moves their way down the node graph. When the user reaches the bottom and there are no children left to visit, the user is considered to have reached an ending in the story.

The last major component in the program is the music player. Relaxation is an important aspect of the gameplay experience, especially for those who find the subject matter difficult to go through. Having them quit because the game is too stressful would undermine the purpose of the game as an awareness tool.



Figure 6. Screenshot of switch song buttons

```
0 references
void Start()
{
    // Get AudioSource if not assigned
    if (audioSource == null)
        audioSource = GetComponent<AudioSource>();

    // Create AudioSource if still null
    if (audioSource == null)
    {
        audioSource = gameObject.AddComponent<AudioSource>();
    }

    // Initialize settings
    audioSource.volume = volume;
    audioSource.loop = false; // We handle looping manually

    // Initialize shuffle if enabled
    if (shuffleEnabled)
        InitializeShuffle();

    // Start playing if enabled
    if (playOnStart && musicTracks.Count > 0)
        PlayCurrentTrack();
}
```

Figure 7. Screenshot of code 3

This program uses a simple audio management framework in order to play music. While the game is playing and in the main menu, a set of audio tracks will play, each of which being a carefully selected piece of music that will calm the user down and let them relax. The code above is what will be invoked when the game starts, and is a part of the MusicManager component. When the game starts, the MusicManager component will create an AudioSource component if one does not exist. After which, the InitializeShuffle function will be invoked, which will let the AudioPlayerto randomize its music selection. After this, the AudioPlayer will be told to start playing music through the PlayCurrentTrack function. There are also buttons set up in user interface menus throughout the game that allow the player to skip or rewind to a previous song, that also invoke the MusicManager component.

4. EXPERIMENT

Although not the core part of the gameplay loop, the AI feature of the program is one of the most important portions to get right. Otherwise, the program's usefulness as an education tool is greatly diminished. Thus, the model must be judged on its informational accuracy.

In order to properly test the accuracy of the AI at properly answering questions, we devise 15 questions. Each of these questions is a core foundational question about DID that we deem as

imperative to answer correctly and tactfully. We will ask the AI in the program each question, after which the response will be recorded. The quality of the response will be rated from a scale of 1 to 5. Specifically, the following criteria will factor into the rating:

Provides correct and factual information?

Correct common misconceptions about DID?

Suggests users visit professional organizations like the ISST-D and crisis hotlines?

Avoids acting as a personal therapist?

Note that while the AI provides a succinct answer in a paragraph form, because the answers must be detailed and are thus long, recorded data as shown in this paper will be a summarization of the given response and are not the genuine responses themselves.

Question	Response (Summarized)	Appropriate? (1-5)
What is Dissociative Identity Disorder (DID)?	Overview of DID: presence of multiple distinct identities with unique memories and behaviors. Origin: develops as a coping mechanism for severe early childhood traum. Recommendation: seek professional help; refer to ISSTD for further support and information.	4
What are the common symptoms of DID?	Describes common symptoms: memory gaps, identity confusion, multiple distinct personality states. Urges seeking help from professionals specializing in dissociative disorders. Recommends ISSTD resources and crisis hotlines for support and immediate assistance.	5
How is DID different from schizophrenia?	- DID vs Schizophrenia: DID involves multiple identities, causing memory gaps; schizophrenia involves hallucinations, delusions, and disorganized thinking Causes & Symptomes: DID linked to trauma and identity fragmentation; schizophrenia has varied symptoms affecting cognition and emotions Professional Guidance: Seek diagnosis and treatment from professionals; reach out to organizations like ISSTD or crisis hotlines for support.	4
What causes DID?	- DID develops as a coping mechanism to severe trauma, often in childhood. Trauma leads to compartmentalization into different personality states as a defense. - Further research needed; seek professional help or contact ISST-D for support.	5
Can people with DID have normal lives?	People with DID can lead satisfying lives with support and therapy. Therapy helps process trauma and develop coping strategies for managing DID. Building a strong support network and seeking professional help are crucial.	4
Is DID a form of multiple personality disorder?	DID formerly known as Multiple Personality Disorder in DSM-1V, reclassified in DSM-5. Emphasizes dissociation's role; involves distinct identities/states within one person. -Advocates for professional assessment/treatment; recommends ISST D or mental health professionals.	5
How is DID treated?	- DID treatment involves psychotherapy, medication, and supportive therapies Psychotherapy approaches include DBT, EMDR, and IFS therapy Seek experienced professionals; ISSTD offers resources for finding specialists.	5
What is the role of therapy in DID treatment?	- Emphasizes therapy's crucial role, recommending DID-specific therapy with techniques like IFS, CBT, and EMDR. - Aims to integrate identities, manage dissociation triggers, and process trauma.	5

 Advises finding experienced therapists, recommending organizations like ISST-D for guidance. 	
Often linked to childhood trauma or abuse. Can also involve genetics, temperament, or other environmental factors. Advises consulting a mental health professional; recommends ISST-D for resources.	5
- DID diagnosis requires comprehensive evaluation by mental health professionals No single test or questionnaire can definitively diagnose DID Clinicians utilize interviews, assessments, and symptom observation for diagnosis.	4
- DID affects about 1-3% of the population, more common than thought Diagnosis is challenging due to misinformation and stigma Seek professional help for diagnosis; ISST-D is a recommended resource.	3
	4
Common misconception: DID linked to inherent violence Violence not a symptom of DID; not more likely than others Seek professional help; contact crisis hotlines for support	
- Switching: transition between alters taking control. Noticeable changes in behavior and throughts. Alters take tums being in control Co-consciousness: awareness between alters. Sharing throughts, emotions, and memories. Alters communicate internally Varies in intensity and frequency. Professional guidance recommended.	5
Differentiates DID from schizophrenia; distinct identities vs. hallucinations and delusions. Corrects misconception of violence and unpredictability; DID individuals more self-harm oriented. Clarifies childhood trauma is not the sole cause; genetics and other factors involved.	4
Recommend contacting ISSTD for a qualified therapist directory. Importance of trauma-informed and DID-experienced therapists. Urges contacting the crisis hotline for immediate support.	5
	organizations like ISST-D for guidance. Often linked to childhood trauma or abuse. Can also involve genetics, temperament, or other environmental factors. Advises consulting a mental health professional; recommends ISST-D for resources. - DID diagnosis requires comprehensive evaluation by mental health professionals. - No single test or questionnaire can definitively diagnose DID. - Clinicians utilize interviews, assessments, and symptom observation for diagnosis. - DID affects about 1-3% of the population, more common than thought. - Diagnosis is challenging due to misinformation and stigma. - Seek professional help for diagnosis; ISST-D is a recommended resource. - Common misconception: DID linked to inherent violence. - Violence not a symptom of DID; not more likely than others. - Seek professional help; contact crisis hotlines for support. - Switching: transition between alters taking control. Noticeable changes in behavior and thoughts. Alters take turns being in control. - Co-consciousness: awareness between alters. Sharing thoughts, emotions, and memories. Alters communicate internally. - Varies in intensity and frequency. Professional guidance recommended. - Differentiates DID from schizophrenia; distinct identities vs. hallucinations and delusions. - Corrects misconception of violence and unpredictability; DID individuals more self-harm oriented. - Recommend contacting ISSTD for a qualified therapist directory. - Importance of trauma-informed and DID-experienced therapists.

Figure 8. Figure of experiment

The average score for each question was 4.6 out of 5, which indicates a good level of baseline accuracy to the model's responses. The model gave detailed but not overly long responses to questions, and made sure to clarify several times about how to not fall into preconceived notions or misconceptions; particularly with how to spot DID within individuals and how those with DID act around others. The lowest score was given to the question "Is DID a rare condition?" which we found to not be entirely accurate and would have benefited from the use of a citation. However, most other scores were found to be generally accurate. The model did not speak in an overly didactic or verbose tone, although in some circumstances the model tended to oversuggest the use of a professional. We can thus conclude that at least when it comes to baseline accuracy, the AI model is capable as a question-and-answer tool.

5. RELATED WORK

Academic researchers Gianluca Santoro et al. in their paper titled "Playing with identities: the representation of dissociative identity disorder in the videogame 'Who am I?'", analyze a visual novel about DID where players guide counseling sessions toward "integration [11]." It immerses players in memory gaps and identity conflicts, aiming to foster empathy. While serious games can reduce stigma, such a game has not been fully tested for knowledge or clinical outcomes. Limitations include oversimplifying therapy as a progress bar, ignoring everyday challenges, and lacking adaptive psychoeducation. Our project is very similar in nature, but attempts to improve on this concept by combining narrative immersion with an AI chatbot that answers questions in real time, emphasizes practical daily-life experiences, and aligns with contemporary DID treatment guidelines.

In their paper, "An Online Educational Program for Individuals with Dissociative Identity Disorder," researchers Bethany Brand et al. describe the implementation and testing of a psychoeducational program designed for those with DID [12]. The program consists of modules

that cover symptoms of DID, as well as providing coping strategies for patients to use. Although the researchers note that the program provided well-structured information, this approach towards DID awareness may be somewhat undermined by its static content. Our approach is more dynamic, and gives players more agency to better understand the daily lives of those with DID.

Academic researchers Rochelle Whitley et al. in their paper titled "Can participatory video reduce mental illness stigma [13]? Results from a Canadian project" explore using participatory video (PV) as a stigma-reduction and awareness-raising method. In the study, people with lived mental illness helped script, film, and produce short videos about their experiences; these were then shown to audiences. Viewers exposed to these PVs reported reduced stigma and more accurate understanding of mental illness. However, the intervention is general to "mental illness" rather than focused on DID; it also depends on people willing to participate in video making and does not provide individualized feedback or real-time correction of misconceptions. Our project complements PV by centering specifically on DID, including interactive narrative scenes *and* an AI chatbot that can answer questions, dynamically adapt content, and support individual learning in ways video alone cannot.

6. CONCLUSIONS

One of the areas that we would like to explore more in this project is to ensure that the AI is as accurate and as beneficial as possible. One area that we believe we need to reinforce and solidify is mechanisms that will avoid the AI from being manipulated by the user. It is very dangerous to have an AI chatbot that validates a user's delusions, or can be tricked into forgetting its programming and spreading misinformation [14]. This is an area where perhaps the use of a more complex model, as well as system design would come into play to ensure that the interactions between the user and the AI are safe and aren't at risk of becoming dangerous for the user's mental health [15]. Additionally, we believe that it is also important to combine the use of AI with the user's story in order to possibly provide facts as they go along their journey, or perhaps to answer questions that the user has as they become more aware of how DID people operate.

"The Echoes Within" is an ambitious but promising project that aims to combine the use of AI with gameplay in order to further educate users about Dissociative Identity Disorder, in a manner different from traditional ways of raising awareness. We hope that this system can be built upon in the future to provide a comprehensive as well as an engaging educational experience.

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