

# **Alzheimer's Awareness Crypto Game**

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## **Project Overview**

Alzheimer's Awareness Crypto Game will be a video game application that brings awareness to Alzheimer's disease and Dementia. In association with the Non-Profit Alzheimer's Association, this application will help generate recognition and funds to support their cause and achieve their goals.

The Alzheimer's Association was founded by Jerome H. Stone and several other family members in Chicago, Illinois on April 10, 1980. Their mission is to lead the way to end Alzheimer's and Dementia, which has no known cure. They are achieving this by forwarding global research, risk reduction, early detection, and providing quality care and support. With our application, it will be able to bring more awareness to the disease and the Alzheimer's Association, helping them achieve their mission.

## **Scope of the Product**

This application will consist of three main scenarios in which the video game player will interact with. These are the Alzheimer's Simulation Game, Alzheimer's Learning Mode, and Cryptocurrency Mining Mode.

## **Simulation Game**

When the player initiates this section, they will be greeted with the general controls of the game. After they are familiarized with the layout, they will be tasked to do various normal actions in their daily lives that are very challenging for a person with Alzheimer's Disease. These can include but are not limited to Making a bowl of cereal, brushing your teeth, or putting on clothes. The main purpose of this game is to show the player how difficult and challenging to do normal activities when you are diagnosed with Alzheimer's Disease or Dementia, bringing awareness of the severity of this disease.

## **Learning Mode**

When the Learning Mode is accessed, it will display different sections where the user can click, such as "What is Alzheimer's?", "How to support someone with Alzheimer's?", etc. Moreover, it will also host various scholarly articles and educational information about Alzheimer's Disease and Dementia. Additionally, this will also hold information about the Alzheimer's Association and their visions and mission. This also includes the latest research and new findings into Alzheimer's Disease and Dementia.

## **Cryptocurrency Mining Mode**

Upon entering this mode, the player will be greeted with important information regarding the mining of cryptocurrency using their machine and that all funds generated will be automatically donated to the Alzheimer's Association. Since generating

cryptocurrency is very taxing regarding electricity use, the player can opt out of this mode and their machine will not be used to generate cryptocurrency.

### **Scope of the Work**

For us to achieve our goal of bringing awareness to the Alzheimer's Association and Alzheimer's disease, the scope of our work is to provide a user-friendly interface, easy to navigate, and transparent regarding the crypto miner for the front-end. When all of these scopes are met, it ensures that the application reaches a wide range of potential users. For the back-end, the scope of the work is to provide logic to the game simulation and have a stable and efficient cryptocurrency miner. When all these scopes are met, the system will function very efficiently and securely to provide a smooth user experience and send the funds to the Alzheimer's Association.

### **Stakeholders & Mandated Constraints**

The client of this application will be the Alzheimer's Association and we will be helping bring awareness to their mission. The Customer will be any online video game distributor. These include but are not limited to Steam, Epic Games Store, iOS App Store, and Google Play Store. The user will be any video game player who wishes to learn more about Alzheimer's Disease and provide funds through cryptocurrency mining to the Alzheimer's Association. Other types of Stakeholders will be Testers, who will help debug the developing application and provide technical feedback, and Marketing, who will help promote and advertise this application through various marketing tactics.

Since this application is dealing with cryptocurrency mining, a major constraint is to have very strict security. This is so no user with malicious intent can redirect funds to their cryptocurrency wallet. This will be done by having various security walls and measures to track the funds and ensure it all gets directed to the Alzheimer's Association. Another constraint is to keep the application performance a priority by ensuring the cryptocurrency miner isn't too demanding which takes away from the video game experience. We are also constraining the platforms that this application will support to only Windows and Mac.