BVRIT HYDERABAD
College of Engineering for Women
Department of Information Technology
Major Project - Academic Year 2022-23

TEAM 1

Gaming Application for Alzheimer's Disease Detection

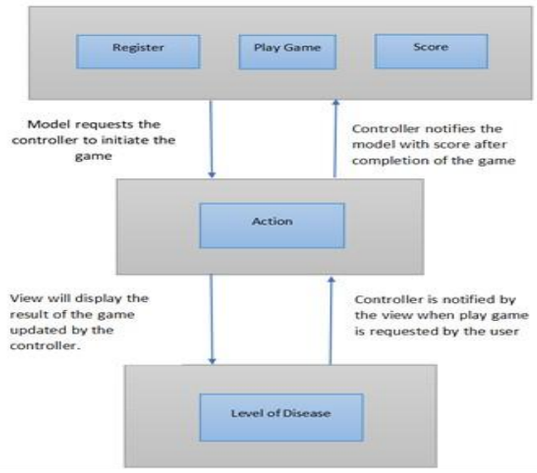
Abstract

Alzheimer's Disease (AD) is a leading cause for damage or loss of nerve cells and their connection in the brain . Depending on the area of the brain that's damaged, it can affect people differentlyand cause different symptoms. There is no cure for this disease, although treatments are available that may improve some symptoms. Symptoms of this disease depend on the stage of the disease. Symptoms usually develop slowly and get worse over time, becoming severe enough to interfere with the daily tasks. An android application has been proposed that provides various tests in the formof levels of a game to detect whether a person suffers from Alzheimer's or not and also tells them thedegree of the disease i.e. Mild, Moderate, Severe which helps to track the status of the patient also. The main intention of this application is to make the player feel like he/she is not being tested but rather is playing a game full of fun and excitement.

Modules

Registration
Designing various games
Analyze the level of disease
1. Mild
2. Moderate
3. Severe

Architecture



Tools and Technologies

- **Android Studio**
- **Firebase**
- **Java**
- **Star UML**

Conclusion and Future Scope

Diagnosing the disease and providing the proper medication for the patient in early stages of disease, will help in preventing the serious effects caused by the disease in later stages.The mobile application developed will help to diagonize the disease in early stage by playing the games. We can extend the application by providing the medication for the disease, and by helping the patient to get doctor appointments in the required situations.

Guide

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Github Link

1. https://github.com/Sanjana-Reddy-Kakulavaram/Major-Project-ALZHIEMERS
2. https://github.com/mds56/MAJOR_PROJECT
3. https://github.com/19WH1A1241/MAJOR_PROJECT
4. https://github.com/19wh1a1258-Aarthi/MajorProject