DAYANANDA SAGAR COLLEGE OF ENGINEERING

AN AUTONOMOUS INSTITUTE AFFILIATED TO VTU, APPROVED BY AICTE & UGC, ACCREDITED BY NAAC WITH 'A' GRADE.
BIOTECHNOLOGY, CSE, ELECTRICAL, MECHANICAL & TELECOMMUNICATION ENGINEERING ACCREDITED BY NBA

DEPARTMENT OF MEDICAL ELECTRONICS

CardioHealth - Phase 2 Report (05/03/2019 - 12/04/2019)

1. KINECT SDKs

The Kinect for Windows Software Development Kit (SDK) 2.0 enables developers to create applications that support gesture and voice recognition.

- Drivers for using Kinect v2 sensors on a computer running Windows 8 (x64), Windows 8.1 (x64), and Windows Embedded Standard 8 (x64)
- Application programming interfaces (APIs) and device interfaces

The Kinect class allows you to access skeleton tracking device hardware in your AIR applications.

2. UNITY 3D PLUGIN FOR KINECT

- Allows to create and modify functions, game objects, scripts and scenes.
- Scenes are linked to scripts which have two main functions - Start and Update
- Allows to use gestures as input keys.

3. KINECT MANAGER API

- Unity offers an Integrated Development Environment called Monodevelop.
- The kinect manager provides a plugin to write the script in the preferred platform - Visual Studio.

4. VISUAL STUDIO- FRAMEWORK

- Assets - Kinect Scripts - use kinect to manipulate game objects by user input from kinect
- MyScripts - using scripts to add features in the webpage

5. BASIC EXERCISES- SCENE

- Squats
- Jumping jacks

6. CardioHealth WEB APPLICATION

- Home page

- Login/Register

- About page

- Create page- Edit, Update ,Delete

TIMELINE FOR PHASE 3

- Include 3 other exercise workout

- Adding login feature

- Adding patient details and information

- Implementation of heart rate

- Website