User Manual

Installation guide

To begin with, I would recommend installing Anaconda on your device as it will be easier to deploy and manage the packages that will be used for this app.

1. [Installation — Anaconda documentation](#) – go on this website for more detailed guide on installation of Anaconda

Next, there are two options, you can either a) download all the necessary packages to Anaconda or b) create a virtual environment and download the packages to that virtual environment. The second option has the advantage that it ensures that the dependences pulled in for Streamlit don't impact any other ongoing projects on your device.

Packages required include:

1) tensorflow
2) opencv-python
3) streamlit
4) numpy
5) pandas
6) matplotlib
7) altair
8) pillow
9) io
10) tempfile
11) random
12) base64
13) time

The packages 1-8 should definitely be installed, and the remaining ones might not be required to be manually installed, check the code to see if they are underlined by some red squiggly lines, if so then they might also have to be installed.

To start the system, go to your command window and locate your files, type in "streamlit run analysis_mode.py" and this will open a new tab on your browser which will then load the system.

Getting Started

When you have got the system loaded on your browser, you will see a sidebar on the left and this where you upload your data. Your two data files are required to be "csv" files and the video can be in "mb4", "mov", or "avi". An example of the user interface after uploading the data is shown below.
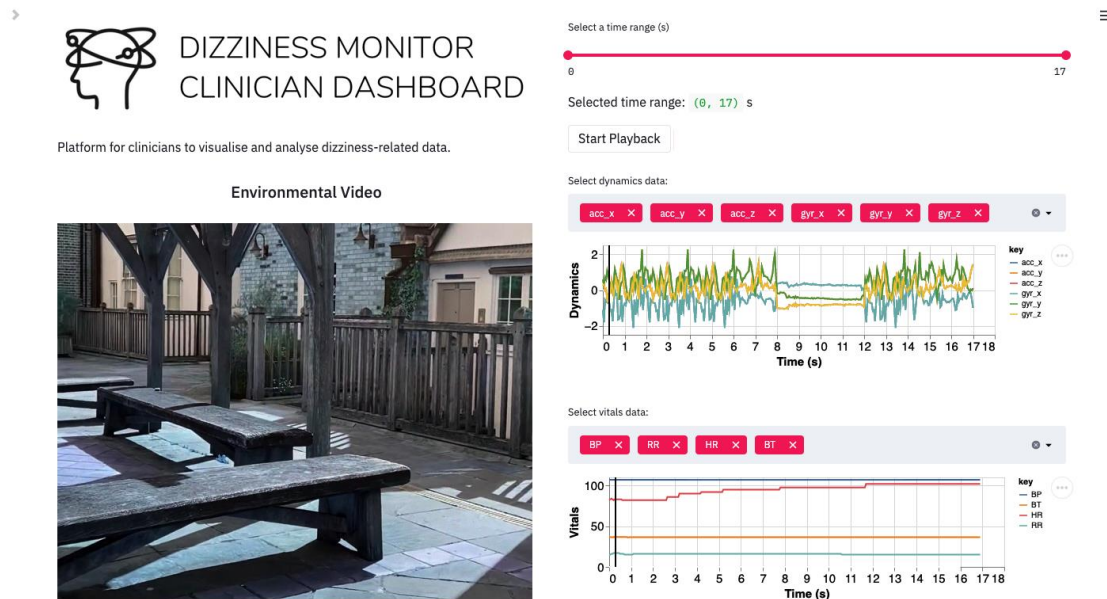

Figure 1: Example User Interface