USER ACCEPTANCE TESTING

DATE	24 NOVEMBER 2022		
TEAM ID	PNT2022TMID37024		
PROJECT TITLE	AI POWERED NUTRITION ANALYST FOR		
	FITNESS ENTHUSIASTS		
MAXIMUM MARKS	10 Marks		

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No	PARAMETER	VALUES	SCREENSHOT
1	MODEL SUMMARY	Total Params: 21,885,4485 Trainable Params: 1.024,005 Non-trainable Params: 20,861,480	ATTACHED BELOW
2	ACCURACY	Training Accuracy – 72% Validation Accuracy – 59%	ATTACHED BELOW
3	CONFIDENCE SCORE	CLASS DETECTED — NIL CONFIDENCE SCORE - NIL	NIL

User Acceptance Testing



We are performing **White Box Testing** for select the package module.

Pseudocode for select the package module is-

- 1. Select the package() procedure begins
- 2. READ the package name, features, offers and duration from the package database
- 3. DISPLAY the package name, features, offers and duration
- 4. DO
- 5. GET the package name, features, offers and duration
- 6. STORE the package selected to the customer's database

- 7. PROCEED to payment screen //another module
- 8. WHILE select package is NULL
- 9. //End DO...WHILE
- 10. Procedure ends

FLOWGRAPH

CYCLOMATIC COMPLEXITY OF RESULTANT GRAPH

V (G) = Number of regions

= 2

V(G) = Edges-Nodes+2

= 8-8+2

=2

V(G) = Predicate nodes+1

= 1 + 1

= 2

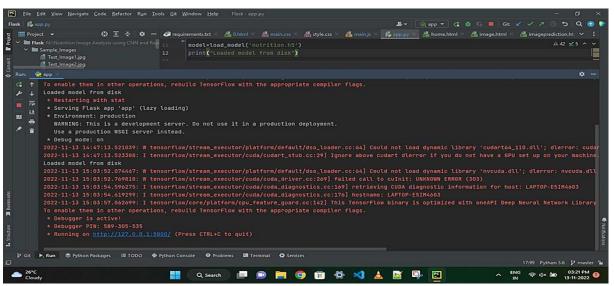
LINEARLY INDEPENDENT PATHS FOR FLOW GRAPHS

Path 1: 1-2-3-4-5-6-7-8-9-10

Path 2: 1-2-3-4-5-6-7-8-4-5-6-7-8-9-10

TEST ID	INPUT	ACTUAL	EXPECTED OUTPUT
	VALUES	OUTPUT	
1	PACKAGE IS	То ве	DISPLAY THE SELECTED
	SELECTED	OBSERVED	PACKAGE
		AFTER	
		EXECUTION	
2	PACKAGE IS	То ве	SHOW THE PACKAGES TO
	NOT	OBSERVED	SELECT UNTIL ONE IS SELECTED
	SELECTED	AFTER	
		EXECUTION	

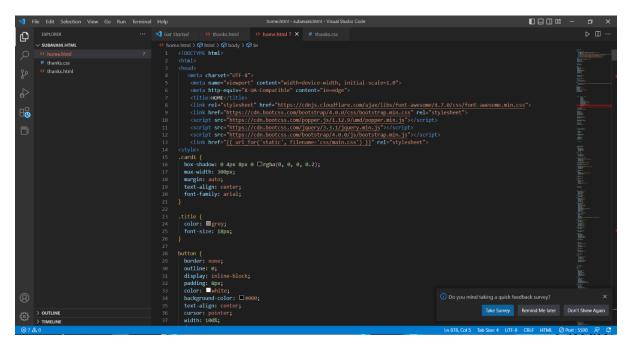
Performance Testing



Future Scope

- Offers payment convenience in personal training subscriptions.
- Useful articles.
- Video instructions.
- Diet Plans.
- Individual progress tracking.

SCREENSHOTS:



```
Download the dataset here

[ ] from google.colab import drive drive.mount('/content/drive')

Mounted at /content/drive

[ ] cd/content/drive/MyDrive/Colab Notebooks

/content/drive/MyDrive/Colab Notebooks

[ ] # Unzipping the dataset lunzip 'Dataset.zip'
```

```
Image Preprocessing
      from keras.preprocessing.image import ImageDataGenerator
Image Data Augmentation
       train_datagen = ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
       test_datagen=ImageDataGenerator(rescale=1./255)
Applying Image DataGenerator Functionality To Trainset And Testset
       x_train = train_datagen.flow_from_directory(
           target_size=(64, 64),batch_size=5,color_mode='rgb',class_mode='sparse')
       x_test = test_datagen.flow_from_directory(
           r'/content/drive/MyDrive/Colab Notebooks/Dataset/TEST_SET',
           target_size=(64, 64),batch_size=5,color_mode='rgb',class_mode='sparse')
    3. Adding CNN Layers
         classifier = Sequential()
         classifier = Sequential()
classifier.add(Conv2D(32, (3, 3), input_shape=(64, 64, 3), activation='relu'))
classifier.add(MaxPooling2D(pool_size=(2, 2)))
classifier.add(Conv2D(32, (3, 3), activation='relu'))
classifier.add(MaxPooling2D(pool_size=(2, 2)))
classifier.add(Slatter()
         classifier.add(Flatten())
    4. Adding Dense Layers
         classifier.add(Dense(units=128, activation='relu'))
classifier.add(Dense(units=5, activation='softmax'))
         classifier.summary()
       Layer (type)
                                              Output Shape
                                                                                 Param #
        conv2d (Conv2D)
 5. Configure The Learning Process
 6. Train The Model
   /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:2: UserWarning: `Model.fit generator` is deprecated and will be removed in a future version. Pl
   7. Saving The Model
```

