DATA PREDICTION AND PLOTTING USING PYTHON

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INTRODUCTION

PROBLEM STATEMENT

- Project focuses on the problems faced by the small scale businessmen.
- Aim of the project is to predict and plot the data as per the datasets provided.
- Also helps to monitor and analyse sales on different scale.

ABOUT OUR PROJECT

- ! This project is made on Python 3.6.
- ! It has GUI-based interface made using Tkinter.
- Prediction is done on the basis of previous data using Annual Growth Rate Method.
- ! Application developed in this project can also be used for plotting data.
- ! Plotting of graph is done on Pie-charts and Bar-graphs.
- ! External Libraries used are : numpy and matplotlib

PREDICTION METHOD

- The prediction is being done on Annual Growth Rate Method
- Predicted values are being generated for:
 - 1. Year wise Value
 - 2. Month wise Value

TYPES OF PLOTS

BAR GRAPH

Plotting of Bar-graph is done on the basis of following criteria:

- ! A particular car sold in a particular month of all years.
- ! All cars sold in all months of a particular year.
- ! All cars sold in particular month in particular year.

PIE CHART

Plotting of Pie-graph is done on the basis of following criteria:

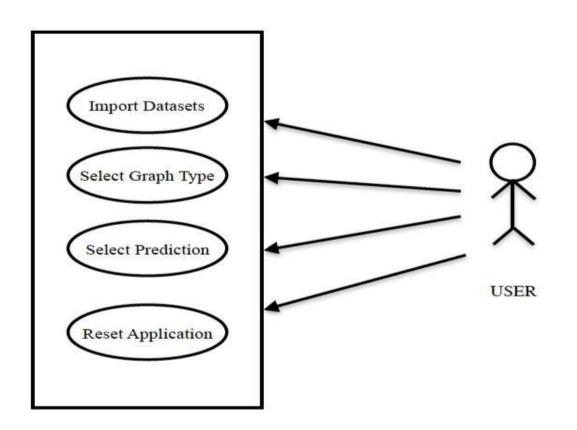
- ! All cars sold in a particular year.
- ! A particular car sold in all months of a particular year.

TECHNICAL SPECIFICATIONS

- ! Hardware Requirements
 - System with minimum 2GB RAM
- ! Software Requirements
 - Python 3.x
 - External libraries : numpy, matplotlib and tkinter.
 - Any Spreadsheet Software for CSV files.

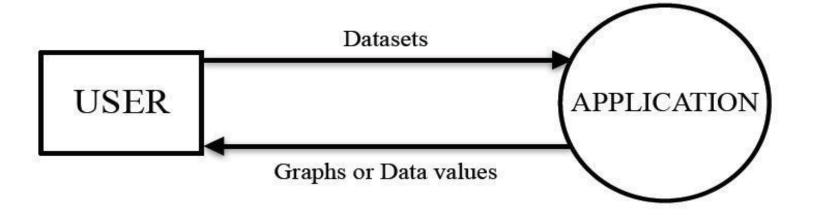
SOFTWARE DESIGN

• USE CASE DIAGRAM

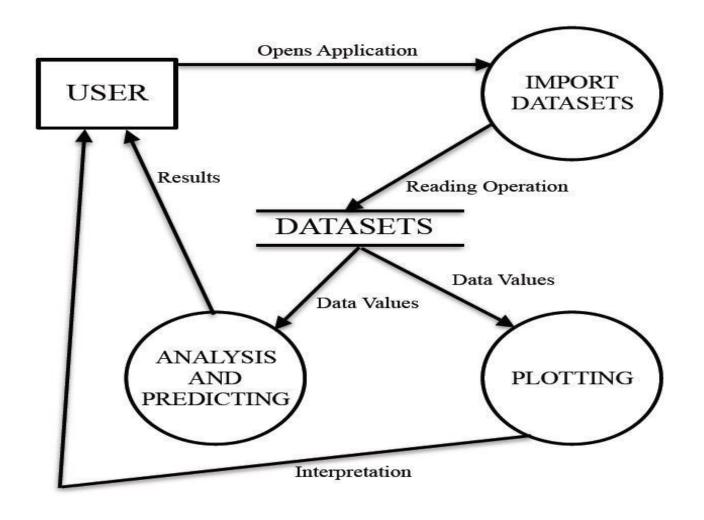


DATA FLOW DIAGRAMS

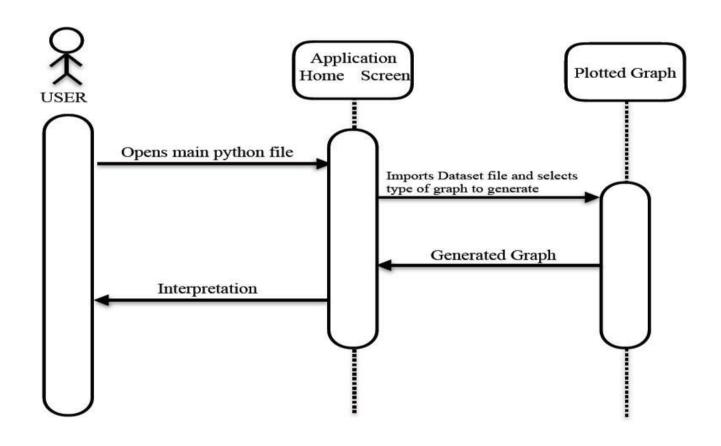
• DFD LEVEL 0



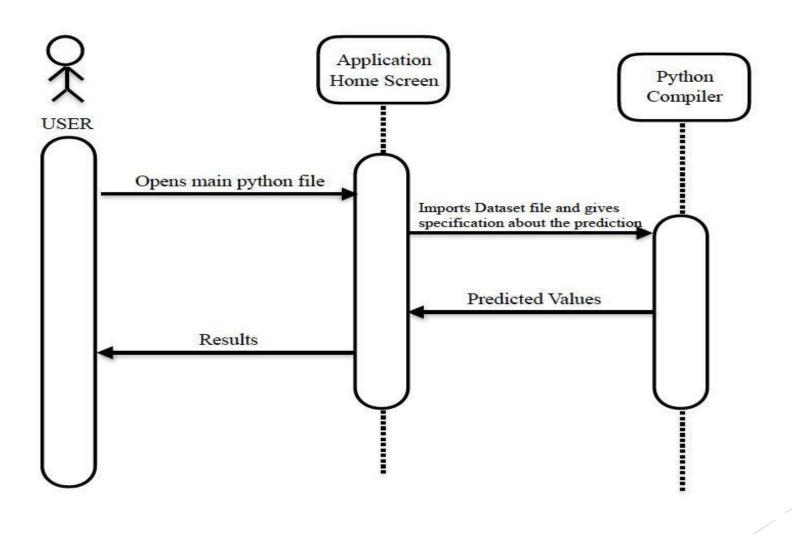
• DFD LEVEL 1



SEQUENCE DIAGRAM FOR PLOTTING

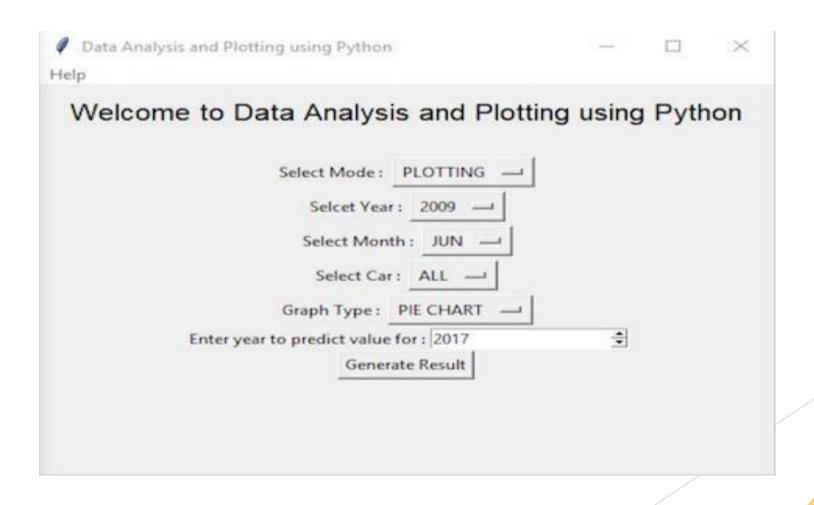


SEQUENCE DIAGRAM FOR ANALYSIS AND PREDICTING

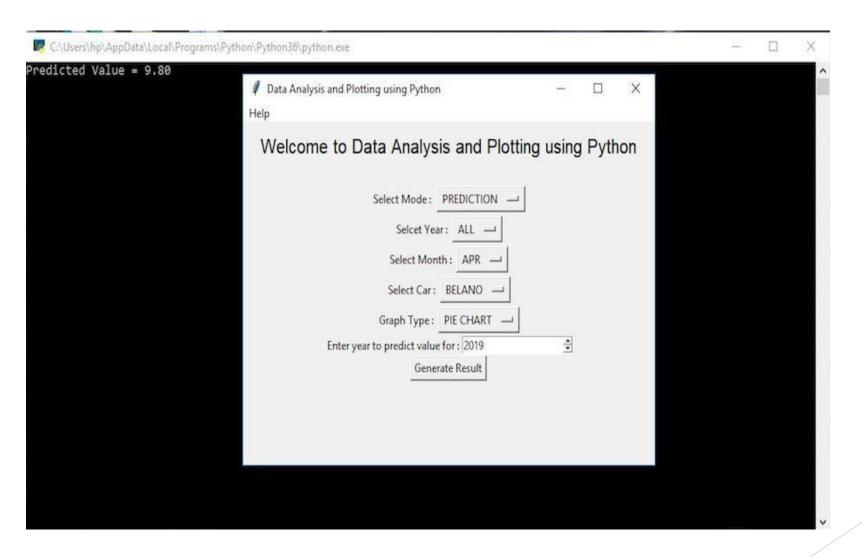


IMAGES OF INTERFACE

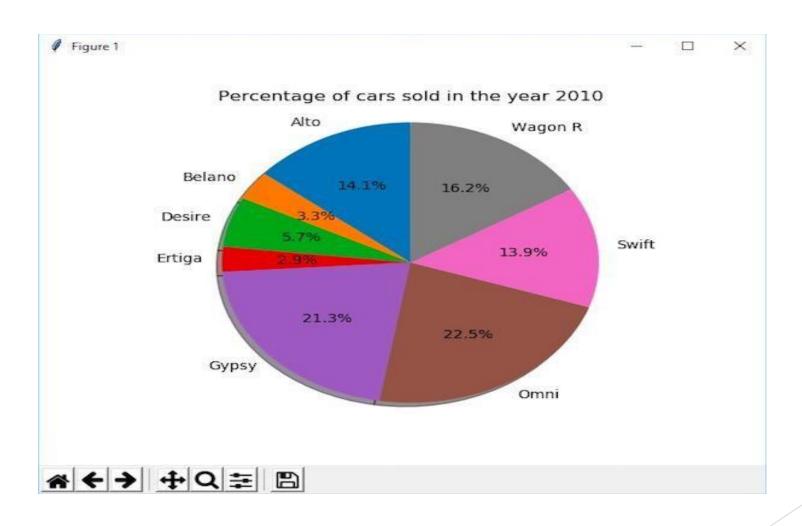
HOME SCREEN



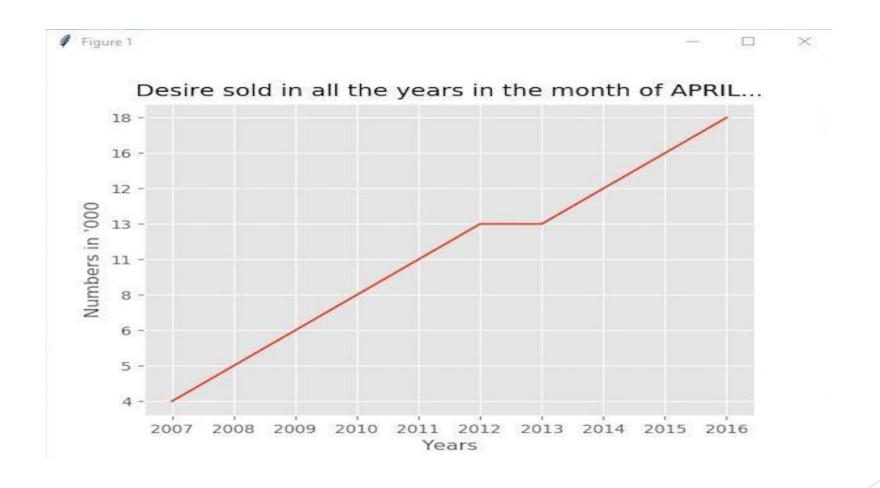
PREDICTION MODE SCREEN



PIE CHART PLOTTING OUTPUT SCREEN:



BAR GRAPH PLOTTING OUTPUT SCREEN:



THANK YOU

Questions Please!!!