INDIVIDUAL MINI PROJECT

COMPUTER ORGANIZATION AND ARCHITECTURE

NAME: AVUALA MEGHANA REDDY

CLASS: ELECTRONICS AND COMPUTER ENGINEERING[EAC]

ROLL.NO:AM.EN.U4EAC19008

DATE OF SUBMISSION: 15/11/2020

ABSTRACT :

This mini project is based on vehicle tracking system in the automative industry. In the assembling unit the cars pass according to the preference of the interior luxuries preffered by the customer. They arrange the branded parts. Here the customer can preffer a branded car with lot of safety concerns like back vedio, air bags, Bluetooth connectivity, seat belt warning, parking signals etc. Coming to the outer look the customer can select the body type. After the priority of the customer the outer and inner design can be changed as per their choice. Here the customer need to submit his/her proper details which might include his name,mobile number etc.

INTRODUCTION :

Due to the advanced technology, sitting at home we can shop a luxurious car model where we can add our own requirements based on our desires and fullfillments. Even the automative industry is also changing day by day by the improving robotic technology. Few years before we used to get the car after 6 months after the order being placed.

But Now-a-days we can get a car after a week of ordering. Even in today’s continement there is no need for a customer to visit the car showroom and know about the car or to place the order for their desired car. The customer can fill an online application in the official website of the company to place the order.Even the customer can have the online demo. He/she can also choose their required safety measures present in the list. According to the choosed criteria the cost will be automatically calculated so that the customer can do an online transaction to the company directly without any issues.

BACKDROP :

Few things that can be sentenced is it is time saving for the customer. The time can be saved by filling the form online. It even reduces the manpower. It is error free. It is even easy to go for the stand buying process.

PROJECT :

In this project I have written the code in such a way that a person can fill the form online which includes the customers name, phone number, selection choices of car based on their requirement and finally the cost they need to pay will be automatically displayed after selecting their choices.

The main idea of my project that I thougt to do was :

For example there is a manufacturing company which manufactures hundai cars. So under that particular company i10, i20,santro,verna,creta are manufactured. So after the manufacturing of the outer shape of the cars these are passed through the assembly line segement. Here the interiors are automatically fixed according to that particulars. If the interiors of one car is fixed to the other their should be the point of error detection and it should automatically select the correct choice for the fixation.

My mini project ended with:

The main reason that I was not able to present as above was I was not able to detect that error. So I finally ended up doing with the customer where they fill their name, give their number, select the car of their own choice. Again in that selected car the luxuries they need can be selected by them. And their final payment will be shown.

SUMMARY :

This mini project is based on vehicle tracking system in the automative industry. In the assembling unit the cars pass according to the preference of the interior luxuries preffered by the customer. Normally we need to wait for a bit long period of time to get the car.But Now-a-days we can get a car after a week of ordering. Even in today’s continement there is no need for a customer to visit the car showroom and know about the car or to place the order for their desired car. The customer can fill an online application in the official website of the company to place the order.Even the customer can have the online demo. In this project I have written the code in such a way that a person can fill the form online which includes the customers name, phone number, selection choices of car based on their requirement and finally the cost they need to pay will be automatically displayed after selecting their choices.

CONCLUSIONS :

I have learnt a lot about the automative industry like how the cars get processed with the help the robotics, their advanced technologies, their new terminologies, and even in such pandemic time too there won’t be any disturbances as there will be low manpower as everything is robotic.

The one thing that I would have done differently is to design in such a way that in a manufacturing company under that particular company i10, i20,santro,verna,creta are manufactured. So after the manufacturing of the outer shape of the cars these are passed through the assembly line segement. Here the interiors are automatically fixed according to that particulars. If the interiors of one car is fixed to the other their should be the point of error detection and it should automatically select the correct choice for the fixation.

My future work will be based on the above requirement. And sure gona work on it.

Refrences:

This is my own project. I have not copied seeing any idea from the internet. I reffered google to just know more about the automative industries.

SOURCE CODE FOR THE PROJECT:

#include <bits/stdc++.h>

#include<fstream>

#include <stdlib.h>

#include <fstream>

#include <string>

using namespace std;

#define ll long long

#define pb push\_back

#define mp make\_pair

#define endl "\n"

#define ff first

#define ss second

#define bs binary\_search

#define vl vector<ll>

#define pll pair<ll,ll>

#define vpl vector<pair<string,ll> >

#define vsl vector<pair<string,string> >

#define mll map<ll,ll>

#define mcl map<char,ll>

#define mpl map<pair<ll,ll>,ll >

#define msl map<string,ll>

#define mset memset

#define len length()

#define f(a,b) for(ll a=0;a<b;a++)

ll e=INT\_MAX;

vsl v1,v3;

vpl v2;

string name;

ll ph\_no;

ofstream fout;

ll num ;

void car1()

{

ll cost=0;

string select;

cout<<"select the required stationay : ";

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost +=100004;

else

cost+=0;

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=2000;

else

cost+=0;

cout<<"b : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=3000;

else

cost+=0;

cout<<"c : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=4000;

else

cost+=0;

cout<< "the amount u need to pay"<<endl;

cout<<cost<<endl;

cout<<"thanks for the visit "<< name <<"\n";

}

void car2()

{

ll cost=0;

string select;

cout<<"select the required stationay : ";

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost +=1000;

else

cost+=0;

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=2000;

else

cost+=0;

cout<<"b : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=3000;

else

cost+=0;

cout<<"c : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=4000;

else

cost+=0;

cout<< "the amount u need to pay"<<endl;

cout<<cost<<endl;

cout<<"thanks for the visit "<< name <<"\n";

}

void car3()

{

ll cost=0;

string select;

cout<<"select the required stationay : ";

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=1000;

else

cost+=0;

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=2000;

else

cost+=0;

cout<<"b : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=3000;

else

cost+=0;

cout<<"c : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=4000;

else

cost+=0;

cout<< "the amount u need to pay"<<endl;

cout<<cost<<endl;

cout<<"thanks for the visit "<< name <<"\n";

}

void car4()

{

ll cost=0;

string select;

cout<<"select the required stationay : ";

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=1000;

else

cost+=0;

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=2000;

else

cost+=0;

cout<<"b : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=3000;

else

cost+=0;

cout<<"c : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=4000;

else

cost+=0;

cout<< "the amount u need to pay"<<endl;

cout<<cost<<endl;

cout<<"thanks for the visit "<< name <<"\n";

}

void car5()

{

ll cost=0;

string select;

cout<<"select the required stationay : ";

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=1000;

else

cost+=0;

cout<<"a : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=2000;

else

cost+=0;

cout<<"b : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=3000;

else

cost+=0;

cout<<"c : ";

cin>>select;

if(select=="yes" || select=="YES")

cost+=4000;

else

cost+=0;

cout<< "the amount u need to pay"<<endl;

cout<<cost<<endl;

cout<<"thanks for the visit "<< name <<"\n";

}

int main()

{

ll choice=0;

while(choice!=-1)

{

cout<<"enter the name"<<endl;

cin>>name;

cout<<"enter the contact details"<<endl;

cin>>ph\_no;

cout<<endl<<"choose"<<endl;

cout<<endl<<"1 to car1 ";

cout<<endl<<"2 to car2";

cout<<endl<<"3 to car3";

cout<<endl<<"2 to car4";

cout<<endl<<"3 to car5";

cout<<endl<<"-1 Exit";

cout<<"\n\n Enter your choice : ";

cin>>choice;

string cnt=" ";

switch(choice)

{

case 1: car1();

break;

case 2: car2();

break;

case 3: car3();

break;

case 4: car4();

break;

case 5: car5();

break;

case -1: cout<<endl<<"thank you for useing softwer!!";

break;

default: cout<<endl<<"Invalid Choice.."; getchar();

}

fout.close();

}

}