Database C# Application

Main Form

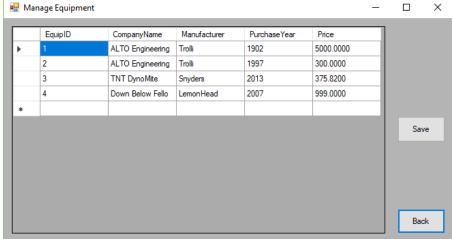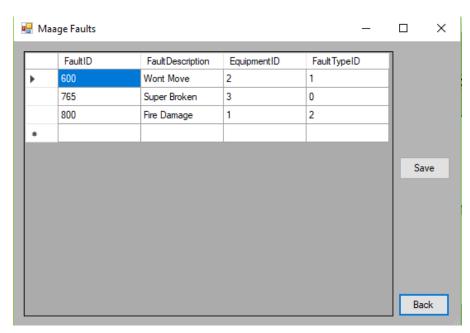|		
Manage Equipment	Manage Fault	
Manage Engineer	Manage Company	

Exit

Main Menu: From the main menu, there are four options. Manage Equipment, Manage Faults, Manage Engineers, and Manage Company. To close the program, you can click the Exit button. Click any of the other four buttons to open more menu options.

Manage Equipment

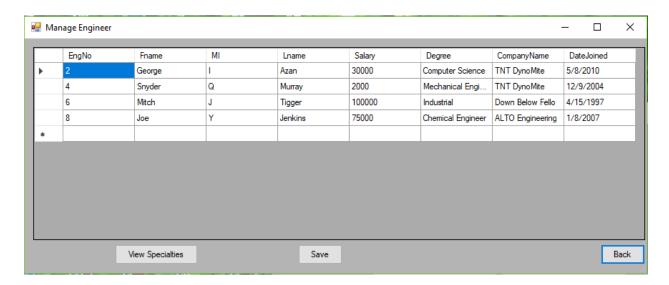|	EquipID	CompanyName	Manufacturer	PurchaseYear	Price
▶	1	ALTO Engineering	Trolli	1902	5000.0000
	2	ALTO Engineering	Trolli	1997	300.0000
	3	TNT DynoMite	Snyders	2013	375.8200
	4	Down Below Fello	LemonHead	2007	999.0000
*					

Save

Back

Manage Equipment:
All equipment has the attributes, Equipment ID, the company it belongs to, the manufacturer the equipment was made by, the year it was purchased, and the price. To add equipment, select the empty boxes in the bottom row of the table. Fill out all the attributes. If you want to save the changes, click the save button. To exit this form, you can click the back button, and you will be brought back to the main menu.

Maage Faults

	FaultID	FaultDescription	EquipmentID	FaultTypeID
▶	600	Wont Move	2	1
	765	Super Broken	3	0
	800	Fire Damage	1	2
*				

Save

Back

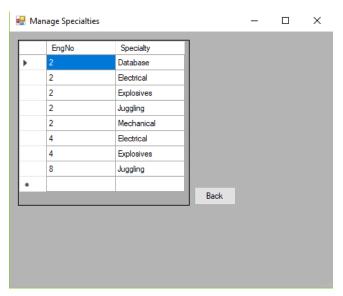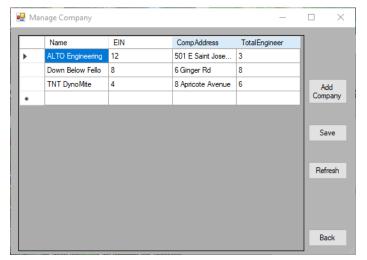Manage Faults: Every fault has an ID number, a description, the ID number of the equipment it is attributed too, and a Fault Type ID. Fault type can be 0 for no specific type, 1 for mechanical, and 2 for electrical. You can add a fault by filling in the bottom row of the table with all the necessary information. To save any changes, click the save button. To return to the main menu, click the back button.

	EngNo	Fname	MI	Lname	Salary	Degree	CompanyName	DateJoined
▶	2	George	I	Azan	30000	Computer Science	TNT DynoMite	5/8/2010
	4	Snyder	Q	Murray	2000	Mechanical Engi...	TNT DynoMite	12/9/2004
	6	Mitch	J	Tigger	100000	Industrial	Down Below Fello	4/15/1997
	8	Joe	Y	Jenkins	75000	Chemical Engineer	ALTO Engineering	1/8/2007
*								

View Specialties   Save   Back

Manage Engineer: Every engineer has an ID number, a first middle and last name, a salary, a degree of education the company they work for, and the date the joined the company. To add an engineer, fill the bottom row with the required information. Click the save button to save any changes. By clicking view specialties, you can see every engineer's specialty.

	EngNo	Specialty
▶	2	Database
	2	Electrical
	2	Explosives
	2	Juggling
	2	Mechanical
	4	Electrical
	4	Explosives
	8	Juggling
*		

Back

Manage Specialties: Displays Engineer Numbers and specialties. The Engineer with ID 4 has both an Electrical and Explosive specialty. To give and engineer a specialty, fill in their id and the

Manage Company

	Name	EIN	CompAddress	TotalEngineer
▶	ALTO Engineering	12	501 E Saint Jose...	3
	Down Below Fello	8	6 Ginger Rd	8
	TNT DynoMite	4	8 Apricote Avenue	6
*				

Add Company

Save

Refresh

Back

Manage Company: Every Company has a name, an ID number, an address, and the total number of engineers. To add another company, click the add company button. To save any changes, click the save button. After adding a company, click the refresh button and the table will update. Click back to return to the main menu.

Add Company

Company Name*

Dice Flower

EIN*

44

Address*

123 Gambling lane

Total Engineers*

3

Save   Back

Add Company: Enter a company name, and ID number, and address and the total number of engineers. Once the information has been inserted, click save to add the company, and back to return to manage company form.

ER Diagram:

Phone
Phone	integer(10)	N
CompName	varchar(255)	

Company
Name	varchar(255)	
EIN	integer(10)	N
CompAddress	varchar(255)	N
totalEng	integer(10)	N

Equipment
equipID	integer(10)	
manufacturer	varchar(255)	N
yearPurchased	integer(10)	N
price	real(10)	N
CompanyName	varchar(255)	

FaultTypes
typeID	integer(10)	
typeName	varchar(255)	N

Fault
faultID	integer(10)	
Description	varchar(255)	N
typeID	integer(10)	N
EquipmentID	integer(10)	
FaultTypesID	integer(10)	

Engineer
engNo	integer(10)	
fName	varchar(255)	N
MI	char(1)	N
lName	varchar(255)	N
Salary	real(10)	N
degree	varchar(255)	N
CompanyName	varchar(255)	

Engineer_Fault
EngineerengNo	integer(10)	
FaultfaultID	integer(10)	
Date	date	N
hours	real(10)	N

Engineer_Specialty
EngineerengNo	integer(10)	
SpecialtyID	integer(10)	

Specialty
SpecialtyID	integer(10)	
Specialty	varchar(255)	N