



Budget Rent car information system

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Abstract

The purposed system manipulate the budget rent car information like customers, cars, employee, and rent information. The system developed by visual basic 2008. net to create interfaces and write codes, Microsoft access to create the data base, Microsoft Visio to design the diagrams, Microsoft power point to design the discussion presentation, and Microsoft word to create final report.

Keywords: budget rent, BRC, application

Introduction

Budget Saudi Arabia Founded in 1978 by Mr. Abdulillah. A. Zahid with 1 rental office, 20 cars & staff of 15 people ^[1]. Presently there are more than 90 rental offices with a fleet of more than 17,000 cars and 1200 employees. The Head Office is in Jeddah, the Regional Offices in Riyadh & Dammam and branch offices in Jubail, Qassim, Buraidah, Yanbu, Makkah, Madinah, Abha, Taif, Rabigh & Tabuk. To be the largest diversified group offering transportation solutions in the Middle East, Africa & South East Asia. To follow the highest ethical business standards through an effective & transparent corporate governance with a commitment to always deliver and keep promises to our Shareholders, customers and employees through consistent quality improvements, reliable services that exceed customer expectations and by fostering a culture of teamwork ^[8]. Budget Saudi's purpose is to contribute to the growing economy of Saudi Arabia by job creation for the welfare of the society Budget has never lost sight of the fact that first, last and always, Budget is a customer-driven service company ^[9]. Satisfying customers means knowing what they want. Providing first-rate solutions and constantly reassessing how we conduct our business serves as an integral function of our business approach. Customer First Always There is no doubt that Budget puts customers first and is constantly striving to improve its services ^[2]. The quality of service and its value to our customers is the essence of our business. Fast, efficient, affordable and dependable is the true meaning of value. Services offers you a full range of services for all your rental needs: domestic and international short term rentals, long term rentals, Chauffeur Drive, Premier Limousine Service, cross border rentals, corporate program, Frequent Renters loyalty program, Corporate leasing ^[3, 4]. Contact Please feel free to

visit our showroom (s) where our expert and experienced Customer Service Executives would be more than willing to help you to choose a car of your desire. (Riyadh Region) Car Sales Manager, Phone: (01) 4736962, Mobile: 0506s 68 2713, Car Sales Executive, Phone: (01) 4736962, Mobile: 050 344 3245, (Dammam Region), Car Sales Manager, Phone: (03) 8325533 Ext. 324, Mobile: 050 800 5565 ^[5]. Partner Offers Budget has a wide range of international partnerships ^[5] in place allowing you to gain additional benefits on car hire at participating ^[6] rental stations ^[7]. Budget offers a wide range of models, with a choice of sizes and styles to suit your requirements. All Budget vehicles are on average, under one year old and undergo regular maintenance and service checks prior to every rental.

The fleet guide below provides an indication of the size and style of car available for each car group. Please note that reservations can only be made by car group and are subject to availability ^[10].

Budget Saudi Arabia financial performance ^[11]

This table about key information

Key information	
Reuters code:	4260.SE
Bloomberg code:	BUDGET:AB
Country:	Saudi Arabia
Sector:	Transport
Primary Listing:	Tadawul
M-Cap:	SAR 1,921mn
52 Weeks H/L (SAR):	72.25/38.60

Fig 1: Key Information

This table about key financial data

Key financial data							
Company Snapshot (in SAR,000)	2011	2012	2013e	2014e	2015e	2016e	2017e
Revenues (Sales)	508.21	582.21	660.13	727.58	797.69	881.63	986.03
% Growth in Revenues	13%	15%	13%	10%	10%	11%	12%
Net Income	100.73	125.78	152.44	178.69	204.59	241.94	301.78
% Growth in Net Income	6%	25%	21%	17%	14%	18%	25%
EPS	5.50	5.15	5.00	5.86	6.71	7.93	9.89
EBIT Margins	22%	24%	25%	26%	27%	29%	32%
Net Margins	20%	22%	23%	25%	26%	27%	31%
ROE	19%	21%	22%	22%	22%	22%	23%
ROA	10%	11%	12%	14%	15%	17%	20%
PE (x)	5.49	8.23	13.29	11.33	9.90	8.37	6.71
PB (x)	1.07	1.74	2.92	2.50	2.15	1.84	1.56

Fig 2: Key Financial Data

Research Issue

The place taken to save papers in the rent car organization. The slow of follow up the rent and return the car. The human errors occurred when prepare the invoice paper. The slow of prepare inventory for the car rent. Create report for existing cares. Create report for rented cares. Compute the total payment for rent care. Search for appropriate car for rent. Determine the cars which must change oil through the 200 km. Make alert for delayed rented cars.

Problem Statement

The problem identification was done by searching in the internet and the direct interact with the rent car organization in the budget Saudi Arabia Company and other organization. Our source is reliable for appropriate level because it depend on the direct interact with rent car organization and some researches in the internet. The problem of the system is the difficult to rent cars process from organization begin with make request for the rent car and personal registration in the organization, search for existing care, compute the day cost for rent, check the oil change date, physical check inside and outside the car, then deliver the car to the customer, finally return the care to the organization, physical check inside and outside the car, compute the total cost for rent process. Create report for existing cares, report for rented cares, and delayed rented car.

Objective

Our system will achieve the following objectives:- Manipulate customer information, Prepare rent invoice, Manipulate car information, Manipulate employee information for manage the system, Create executable program, Create data base for store data.

Interactive Methods

To gathering the information we choses the interview methods which applied by prepare the meeting with appropriate interviewee.

The name of interviewee: - Mohammed Fahad Aldosary

The Position: Employee of Riyadh Budget branch

Question no1:- what is the description of rent car operations?

Answer: - The work in the organization begin with customer request for rent care and employee gather personal information and rent information, then employee give the customer many choices with price depend on rent information then the customer choose and confirm the rent process

Question no2:- what is the problem in car rent system?

Answer: - In our branch we have some problems like Determine the cars respect to model and company, Determine the number of days and the cost for each day and compute the total cost for the invoice, Mark the car as not available car

Question no3:- What is the information you want to saving about the cars?

Answer: - The information i
Car no, Car name, Model, Engine number, Rent price, Kilometer count

Question no4: What is the information you want to saving about the customers?

Answer: The information is
Customer id, Customer name, Customer address, Customer mobile, Customer license number

Question no5: What is the information you want to save about the rent car invoice?

Answer: The information is
invoice no, total cost, rent date, no of days, invoice date, no of kilometers before rent, no of kilometers after rent, car status before rent, car status after rent

Question no6: what is the preferred language for system interface?

Answer: The preferred language is English

Question no7: what is the no of computers you want to install and work with the system?

Answer: only we have one personal computer and we have no network

Analyzing

Data flow diagram

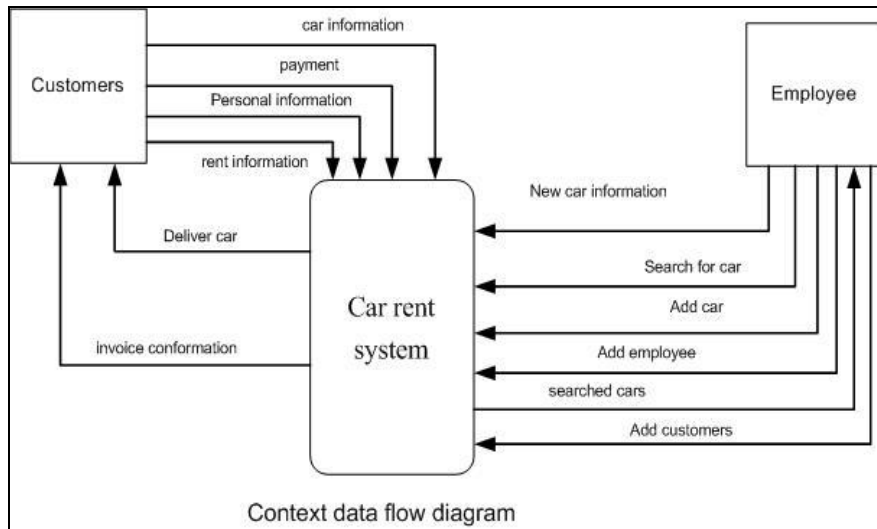


Fig 3: Context Dataflow Diagram

This context dataflow diagram customer Put personal information, car information, payment and rent information in Car rent system, Employee ability to additional new car, add

employee, searched cars, add customers in car rent system after car rent system deliver car to customer.

Flow Chart

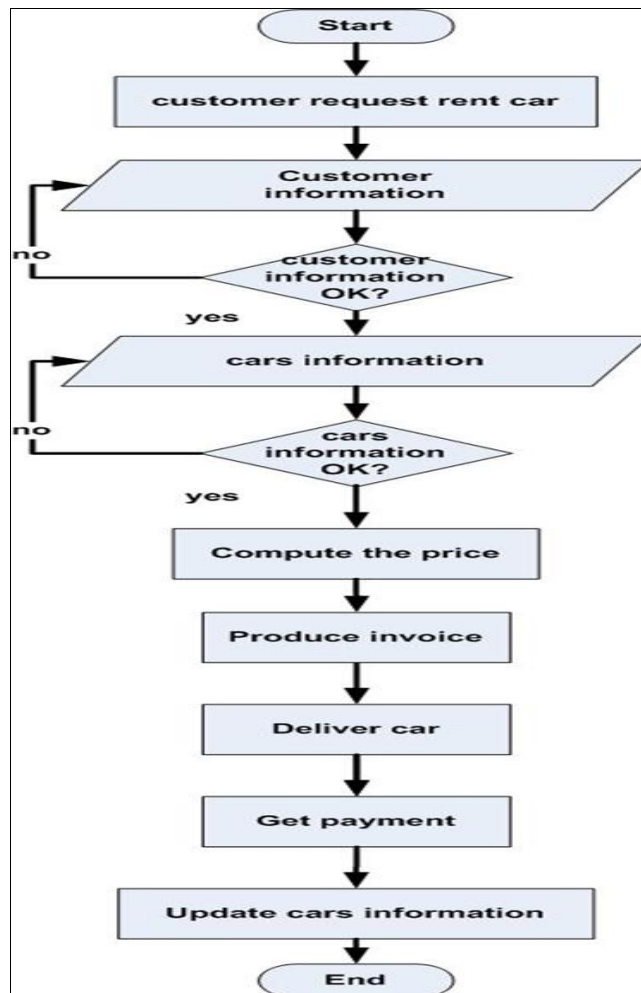


Fig 4: flow chat

Entity Relationship Diagram:

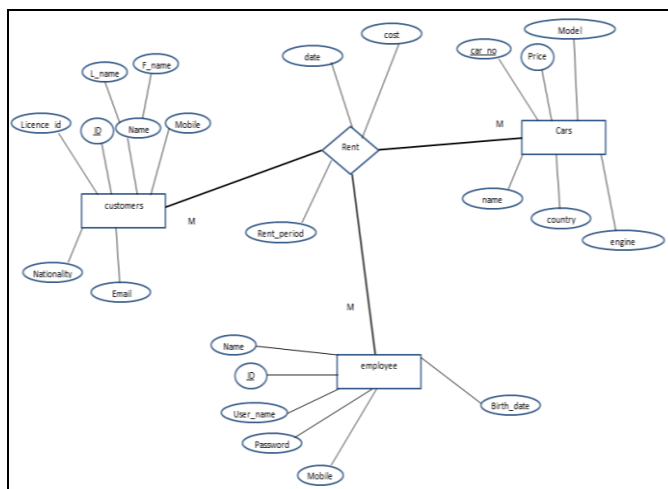


Fig 5: Entity Relationship Diagram

7. Development

The data base contains the following tables:-

1-Cars table

cars	
نوع البيانات	اسم الحقل
نص	car_no
نص	name
عملة	price
عملة	rent_price
رقم	model
نص	engine
نص	country

Fig 6: Cars table

This table will store information about each customer and it contains the following fields

3-Employee table

Employee		
الوصف	نوع البيانات	اسم الحقل
	رقم	id
	نص	emo_name
	نص	user_name
	نص	password
	تاريخ/وقت	birth_date
	رقم	mobile

Fig 8: Employee table

This table will store information about each car and it contains the following fields

2-Customers table

customers		
نوع البيانات	اسم الحقل	
رقم	c_ID	
نص	F_name	
نص	L_name	
نص	licence_id	
نص	email	
نص	mobile	
نص	nationality	

Fig 7: Customer table

This table will store information about each employee and it contains the following fields

4-Rent table

rent		
الوصف	نوع البيانات	اسم الحقل
	نص	car_no
	رقم	emp_id
	رقم	rent_period
	عملة	cost
	رقم	cust_id
	تاريخ/وقت	start_date
	تاريخ/وقت	end_date

Fig 9: Rent table

This table will store information about each rent process and it contains the following fields

5-Tables relationship

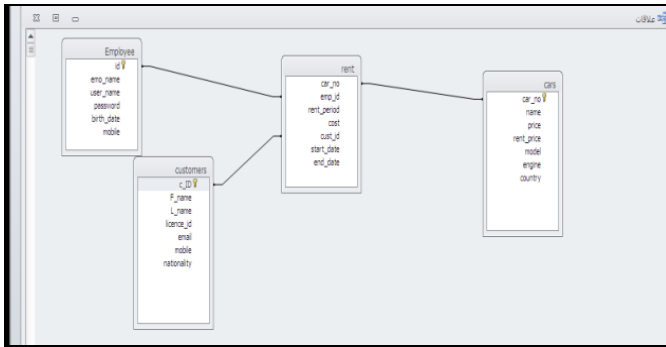


Fig 10: Table relationship

This table relationship fields

Results

1-Cars form

The Cars form has a header with 'ADD', 'Delete', 'Search', and 'Update' buttons. The main area contains input fields for: CAR NO, NAME, MODEL, COUNTRY, ENGINE, PRICE/DAY, and STATUS.

Fig 11: Cars Form

This form manipulate the cars information

2-Employee form

The Employee form has a header with 'ADD', 'Delete', 'Search', and 'Update' buttons. The main area contains input fields for: EMPLOYEE ID, EMPLOYEE NAME, USER NAME, PASSWORD, BIRTH DATE (with a date picker showing 11/06/2017), and MOBILE.

Fig 12: Employee form

This form manipulate the employees information

3-Customer form

The Customer form has a header with 'ADD', 'Delete', 'Search', and 'Update' buttons. The main area contains input fields for: CUSTOMER ID, FIRST NAME, LAST NAME, NATIONALITY, LICENCE ID, MOBILE, and EMAIL.

Fig 13: Customer form

This form manipulate the customers information

4-Rent form

The Rent form has a header with 'New', 'ADD', 'PRINT', 'Search', and 'RECEIVE CAR' buttons. The main area contains input fields for: RENT NO, RENT DATE, CUSTOMER ID, MODEL, COUNTRY, CAR NO, EMPLOYEE NO, RENT PERIOD, END DATE, OVER COST (with a value of 0), RENT COST, REMARK, SETTLED, and REMAIN.

Fig 14: Rent form

This form manipulate the rent process information

5-Main form

The Main form is a simple navigation screen with five buttons: EMPLOYEE, CARS, EXIT, CUSTOMERS, and RENT.

Fig 15: Main form

This form navigate between the forms

6-Login form

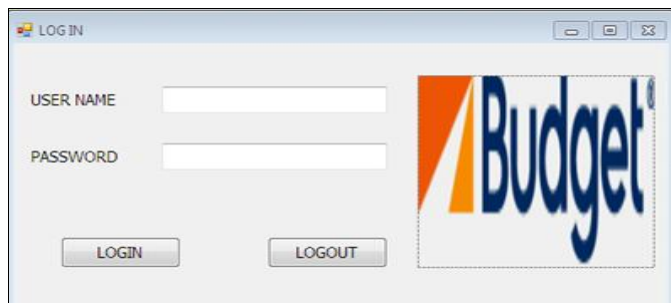


Fig 16: Login Form

This form apply the authentication to un authenticating persons

7-Output rent report

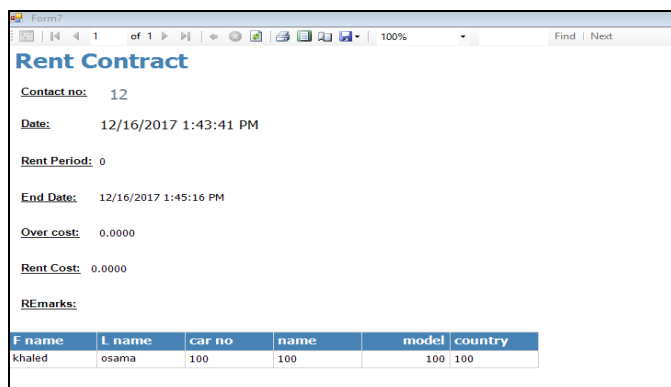


Fig 17: Output rent report

This form contain rent report to be printed

9. Acknowledgment

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