



SDJ INTERNATIONAL
COLLEGE

Bachelor of Computer Applications (BCA)
Programme

Project Report
BCA SEM VI
AY 2019-20

Car Rental System
By

Exam No	Name of Student
2527	Tolat Chirag Pinalkumar
2488	Patel Shivam Dharmeshbhai

AGENDA

- **Introduction**
- Objective
- Scope
- H/W Requirements
- S/W Requirements
- Database Design
- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- References

INTRODUCTION

- Our website provide cars on rent. A Rental service is a service in which customers arrive to request for rent a car. It is more convenient than carrying the cost of owning and maintaining the car.
- Our website helps customers to find a car in affordable prices.
- In short, It is a system design specially for large, premium and small car rental service.

3

AGENDA

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- Scope
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- S/W Requirements
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- UML Diagram
- Screenshot
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- References

4

OBJECTIVE

- To transform the manual process of hiring car to a online system.
- Customers who are not having enough money to buy a car then this website will helps them.
- Allow customers to rent a car online.
- Customers can rent a car for multiple days.

5

AGENDA

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- **Scope**
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- S/W Requirements
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- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- References

6

SCOPE

- To provide an user friendly system.
- To provide car rental service in as many as possible cities.
- User can book a car in a fingertip from anywhere and anytime.
- Admin can manage their work with more efficiency.

7

AGENDA

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- Objective
- Scope
- **H/W Requirements**
- S/W Requirements
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- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- References

8

H/W REQUIREMENTS

RAM	4 GB or Higher
Hard disk	500 GB or Higher
I/O Device	Standard I/O Device

9

AGENDA

- Introduction
- Objective
- Scope
- H/W Requirements
- **S/W Requirements**
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- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- References

10

S/W REQUIREMENTS

Frontend Languages	ASP C#, JavaScript, Bootstrap, CSS, JQuery
Database Backend	Microsoft SQL Server 2008
Operating System	Windows 10 Ultimate
Office Tools	Microsoft Office 2010
Technology	Web base application

11

AGENDA

- Introduction
- Objective
- Scope
- H/W Requirements
- S/W Requirements
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- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- References

12

DATABASE DESIGN

1) tbl_Admin

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
AdminID	int	PK	Admin ID
Username	nvarchar(50)	Unique Key	Username
Password	nvarchar(50)	Not Null	Password
Email	nvarchar(50)	Not Null	Email ID
Mobile	numeric(10,0)	Not Null	Mobile No
Image	nvarchar(50)	Not Null	Admin Image
IsSuper	int	Not Null	Admin Type

13

DATABASE DESIGN

2) tbl_User

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
UserID	int	PK	User ID
UserName	nvarchar(50)	Unique Key	Username
Password	nvarchar(50)	Not Null	Password
FName	nvarchar(50)	Not Null	First Name
LName	nvarchar(50)	Not Null	Last Name
Email	nvarchar(50)	Not Null	Email ID
Mobile	numeric(10,0)	Not Null	Mobile No
DOB	date	Not Null	Date of Birth

14

DATABASE DESIGN

3) tbl_Brand

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
BrandID	int	PK	Brand ID
BrandName	nvarchar(50)	Unique Key	Brand Name

4) tbl_Category

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
CategoryID	int	PK	Category ID
CategoryName	nvarchar(50)	Unique Key	Category Name

15

DATABASE DESIGN

5) tbl_Model

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
ModelID	int	PK	Model ID
BrandID	int	FK	Brand ID
CategoryID	int	FK	Category ID
ModelName	nvarchar(50)	Unique Key	Model Name
ModelImage	nvarchar(50)	Not Null	Model Image

16

DATABASE DESIGN

6) tbl_ModelDetails

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
MDetailsID	int	PK	Model Detail ID
ModelID	int	FK	Model ID
Seats	int	Not Null	No of Seats
BagSpace	int	Not Null	Bag Space
GearID	int	FK	Gear ID
FuelID	int	FK	Fuel ID
AirCondition	nvarchar(50)	Not Null	Air Condition
Airbag	int	Not Null	No of Airbag
StateID	int	FK	State ID
CityID	int	FK	City ID
Price	int	Not Null	Price
IsActive	int	Not Null	Active Status

17

DATABASE DESIGN

7) tbl_State

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
StateID	int	PK	State ID
StateName	nvarchar(50)	Unique Key	State Name

8) tbl_City

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
CityID	int	PK	City ID
StateID	int	FK	State ID
CityName	nvarchar(50)	Unique Key	City Name

18

DATABASE DESIGN

9) tbl_Fuel

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
FuelID	int	PK	Fuel ID
FuelType	nvarchar(50)	Unique Key	Fuel Type

10) tbl_Gear

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
GearID	int	PK	Gear ID
GearType	nvarchar(50)	Unique Key	Gear Type

19

DATABASE DESIGN

11) tbl_Booking

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
BookingID	int	PK	Booking ID
UserID	int	FK	User ID
BookingDate	datetime	Not Null	Booking Date
MDetailsID	int	FK	Model Detail ID
PickUpDate	date	Not Null	Pick Up Date
DropOffDate	date	Not Null	Drop Off Date
LicenseNum	nvarchar(50)	Not Null	License No
Address	nvarchar(MAX)	Not Null	Address

20

DATABASE DESIGN

12) tbl_Payment

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
PaymentID	int	PK	Payment ID
BookingID	int	FK	Booking ID
Rate	int	Not Null	Rate
Qty	int	Not Null	Quantity
Amount	int	Not Null	Amount
Discount	int	Not Null	Discount
CGST	Int	Not Null	CGST
SGST	Int	Not Null	SGST
Total	Int	Not Null	Total
PMethod	nvarchar(50)	Not Null	Payment Method
PStatus	nvarchar(50)	Not Null	Payment Status

21

DATABASE DESIGN

13) tbl_ContactUs

ATTRIBUTE	DATATYPE	CONSTRAINT	DESCRIPTION
ContactUsID	int	PK	Contact Us ID
FName	nvarchar(50)	Not Null	First Name
LName	nvarchar(50)	Not Null	Last Name
Email	nvarchar(50)	Not Null	Email ID
Mobile	numeric(10,0)	Not Null	Mobile No
Message	nvarchar(MAX)	Not Null	Message

22

AGENDA

- Introduction
- Objective
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- H/W Requirements
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- **ER Diagram**
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- References

23

DFD, Use Case Diagram, ER Diagram, Screenshot

- DFD
- Use Case Diagram
- ER Diagram
- Screenshot

24

AGENDA

- Introduction
- Objective
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- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- **Conclusion**
- References

25

CONCLUSION

- All in all, this website will help customers to find various cars with class which they can rent easily.
- We built this website for several purpose. Which is,
 - 1) Customers don't need to buy a car.
 - 2) Customer can easily rent a car.
 - 3) Customer even can rent at any available place.
 - 4) This website also helps to tourist who's purpose of travelling is collection of memories.

26

AGENDA

- Introduction
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- Scope
- H/W Requirements
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- Database Design
- DFD
- Use Case Diagram
- UML Diagram
- Screenshot
- Conclusion
- **References**

27

REFERENCES

- <https://www.revv.co.in>
- <https://www.zoomcar.com>
- <https://www.stackoverflow.com>
- <https://www.codeproject.com>
- <https://www.aspsnippets.com>
- <https://www.w3schools.com>

28



Thank You!

29