

Documentation

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Submitted to:

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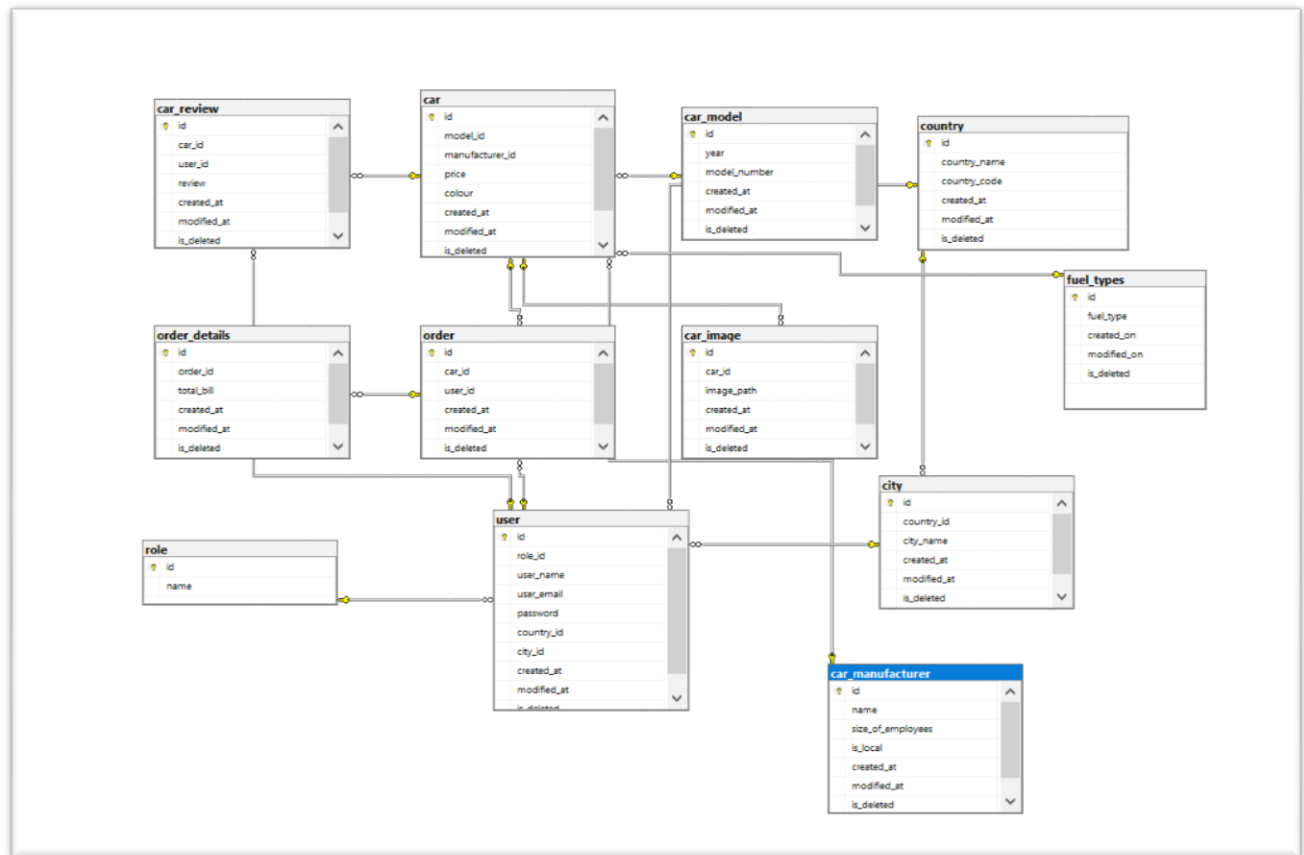
Showroom Management System

Introduction

This system has been developed to override the problems prevailing in the practical manual system. This software is supported to eliminate and in some cases reduce the hardships faced by existing system

This software automates major car processes for customer satisfaction like searching for cars online rather than manually. The database can be controlled and modified by admin

DB- Diagram



API's

APIs are needed to bring applications together in order to perform a designed function built around sharing data and executing pre-defined processes. They work as the middle man,

```
Server response
Code Details
200 Response body
{
  "id": 1,
  "fuelType": "Diesel",
  "createdAt": null,
  "modifiedAt": null,
  "isDeleted": false
},
{
  "id": 1,
  "fuelType": "Petrol",
  "createdAt": null,
  "modifiedAt": null,
  "isDeleted": false
},
{
  "id": 1001,
  "fuelType": null,
  "createdAt": null,
  "modifiedAt": null,
  "isDeleted": null
}
```

```
Curl
curl -d '{"modelId": 1001, "fuelType": "Petrol", "price": 250000, "colour": "Red", "createdAt": null, "modifiedAt": null, "isDeleted": false}' -X POST https://localhost:7027/api/users
Request URL: https://localhost:7027/api/users
Server response
Code Details
201
Response body
{
  "id": 1001,
  "fuelType": "Petrol",
  "price": 250000,
  "colour": "Red",
  "createdAt": null,
  "modifiedAt": null,
  "isDeleted": false
}
```

```
{
  "id": 1,
  "modelId": 1,
  "manufacturerId": 1,
  "price": 250000,
  "colour": "Red",
  "createdAt": null,
  "modifiedAt": null,
  "isDeleted": false,
  "fuelTypeId": 1,
  "carImages": [
    {
      "id": 1,
      "carId": 1,
      "imagePath": null,
      "createdAt": null,
      "modifiedAt": null,
      "isDeleted": null,
      "car": null
    }
  ],
  {
    "id": 2,
    "carId": 1,
    "imagePath": null,
    "createdAt": null,
    "modifiedAt": null,
    "isDeleted": null,
    "car": null
  }
}
```

Stored Procedures

```
GO

DECLARE @return_value int

EXEC @return_value = [dbo].[SearchCars]
    @carModelIds = N'1',
    @carMakerIds = N'1,2',
    @fuelTypeIds = N'1'

SELECT 'Return Value' = @return_value

GO
```

100 %

	id	model_id	manufacturer_id	price	colour	created_at	modified_at	is_deleted	fuel_type_id	Car Maker	Model Number
1	1	1	1	250000	Red	NULL	NULL	0	1	Toyota	ABCDEFG
2	2	1	1	30000	Blue	NULL	NULL	0	1	Toyota	ABCDEFG

```
JSE [Sem-4]
GO

DECLARE @return_value int

EXEC @return_value = [dbo].[SearchCars]
    @carModelIds = N'1,2',
    @carMakerIds = N'1'

SELECT 'Return Value' = @return_value

GO
```

100 %

	id	model_id	manufacturer_id	price	colour	created_at	modified_at	is_deleted	fuel_type_id	Car Maker	Model Number
1	1	1	1	250000	Red	NULL	NULL	0	1	Toyota	ABCDEFG
2	2	1	1	30000	Blue	NULL	NULL	0	1	Toyota	ABCDEFG
3	1003	2	1	450000	Black	NULL	NULL	NULL	1	Toyota	NULL
4	1004	2	1	650000	Blue	NULL	NULL	NULL	2	Toyota	NULL
5	1010	2	1	950000	White	NULL	NULL	NULL	1	Toyota	NULL
6	1012	2	1	599999	Red	NULL	NULL	NULL	2	Toyota	NULL

```
JSE [Sem-4]
GO

DECLARE @return_value int

EXEC @return_value = [dbo].[SearchCars]
    @carModelIds = N'1',
    @carMakerIds = N'1',
    @fuelTypeIds = N'1'

SELECT 'Return Value' = @return_value

GO
```

100 %

	id	model_id	manufacturer_id	price	colour	created_at	modified_at	is_deleted	fuel_type_id	Car Maker	Model Number
1	1	1	1	250000	Red	NULL	NULL	0	1	Toyota	ABCDEFG
2	1	1	1	30000	Blue	NULL	NULL	0	1	Toyota	ABCDEFG

Search Procedures

```
ALTER PROCEDURE [dbo].[SearchCars] (@carModelIds  
NVARCHAR(MAX) = null, @carMakerIds NVARCHAR(MAX) =  
null, @fuelTypeIds NVARCHAR(MAX) = null  
, @minPrice INT = 0, @maxPrice INT = 0)
```

```
AS
```

```
BEGIN
```

```
SET NOCOUNT ON;
```

```
DECLARE @tempCarModelTable AS TABLE (id INT);
```

```
DECLARE @tempCarMakerTable AS TABLE (id INT);
```

```
DECLARE @tempFuelTypeTable AS TABLE (id INT);
```

```
-- Split the comma-separated string into temporary tables
```

```
IF (@carModelIds IS NOT NULL AND @carModelIds != '')
```

```
BEGIN
```

```
INSERT INTO @tempCarModelTable
```

```
SELECT value
```

```
FROM STRING_SPLIT(@carModelIds, ',')
```

END

IF (@carMakerIds IS NOT NULL AND @carMakerIds != '')

BEGIN

INSERT INTO @tempCarMakerTable

SELECT value

FROM STRING_SPLIT(@carMakerIds, ',')

END

IF (@fuelTypeIds IS NOT NULL AND @fuelTypeIds != '')

BEGIN

INSERT INTO @tempFuelTypeTable

SELECT value

FROM STRING_SPLIT(@fuelTypeIds, ',')

END

SELECT c.*, cm.name AS [Car Maker], cmdl.model_number as
[Model Number]

FROM car c

Left JOIN car_manufacturer cm ON c.manufacturer_id = cm.id

Left JOIN car_model cmdl ON c.model_id = cmdl.id

```
Left JOIN fuel_types ft ON c.fuel_type_id = ft.id
WHERE
(@carModelIds IS NULL OR @carModelIds = '' OR cmdl.id IN
(SELECT id FROM @tempCarModelTable))
AND
(@carMakerIds IS NULL OR @carMakerIds = '' OR cm.id IN
(SELECT id FROM @tempCarMakerTable))
AND
(@fuelTypeIds IS NULL OR @fuelTypeIds = '' OR ft.id IN (Select
id from @tempFuelTypeTable))
AND
(@minPrice= 0 OR c.price >= @minPrice )
AND
(@maxPrice = 0 OR c.price <= @maxPrice)
END
```