

BLOOD BANK MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted by

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Under the Guidance of

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In partial fulfilment of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

with a specialization in BIG DATA ANALYTICS



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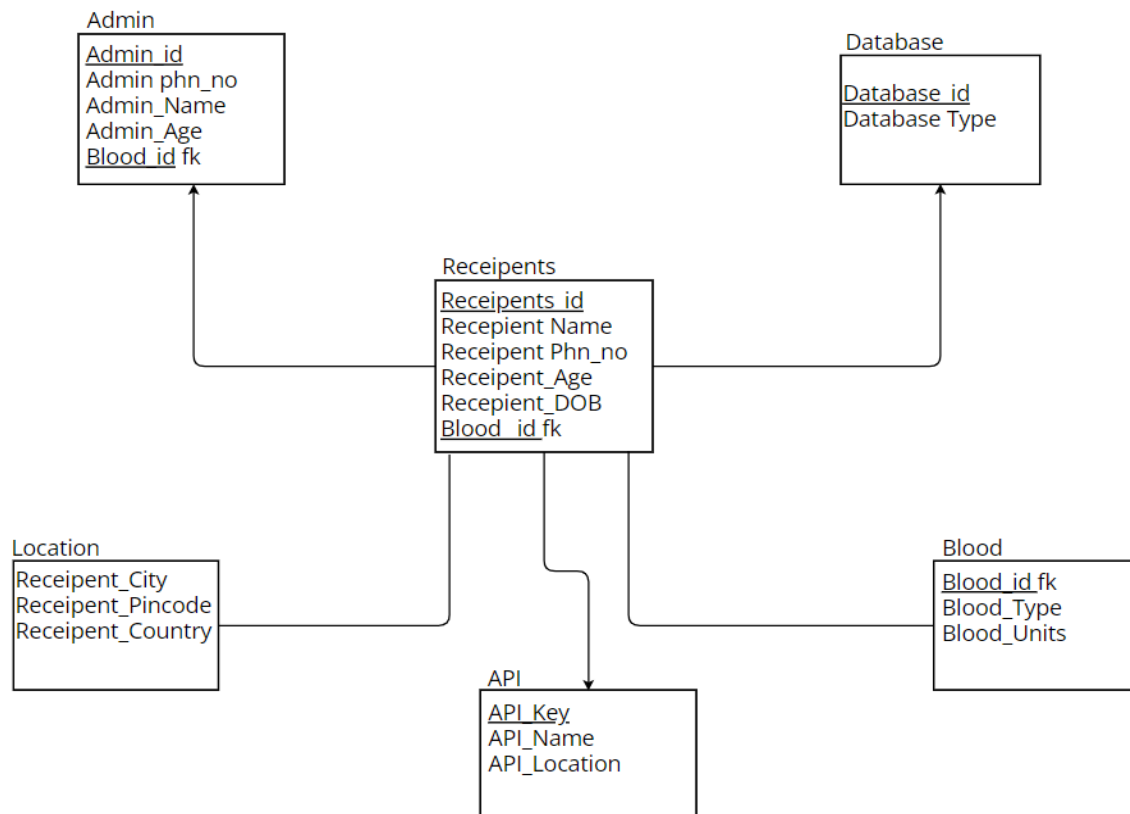
BONAFIDE CERTIFICATE

Certified that this B.Tech project report titled “**BLOOD BANK MANAGEMENT SYSTEM**” is the bonafide work of Mr.C.H.S.K.Gowtham [Reg. No.: RA2211027010149] and Ms. S.SaiCharani [Reg. No.RA2211027010186] who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion for this or any other candidate.

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Relational Schema



- Admin(Admin_id,First Name,Last Name,Address,Phone_no,Blood_id)
- Database(Database_id,Database Type)
- Receipt(Id,First Name,Last Name,Phn_no,DOB,Age,Blood_id)
- Blood(Blood_id,Blood Type)
- Location(City,Country,Pincode)
- API(API Name,API Key)

Data Base Tables

Admin Table:

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The left pane shows the 'Object Explorer' with the 'CHARANI-02\SQLEXPRESS (SQL Server 16.0)' server selected. The 'Database Explorer' shows the 'dbmsdb' database. The 'Tables' folder is expanded, showing the 'Admin' table. The 'SQLQuery1.sql' window shows the following SQL script:

```
UPDATE ADMIN SET BLOOD_ID = 1 WHERE ADMIN_ID IN (2, 4);
UPDATE ADMIN SET BLOOD_ID = 2 WHERE ADMIN_ID IN (1);
UPDATE ADMIN SET BLOOD_ID = 3 WHERE ADMIN_ID IN (3, 5, 6);

-- Modify the data in RECIPIENT Table to include BLOOD_ID
UPDATE RECIPIENT SET BLOOD_ID = 1 WHERE ID IN (102, 104);
UPDATE RECIPIENT SET BLOOD_ID = 2 WHERE ID IN (101);
UPDATE RECIPIENT SET BLOOD_ID = 3 WHERE ID IN (103, 105, 106);

select * from ADMIN;
```

The 'Results' pane shows the data for the 'Admin' table:

ADMIN_ID	FIRST_NAME	LAST_NAME	ADDRESS	PHONE_NO	BLOOD_ID
1	Mythri		123 ABC Street	9876543210	2
2	Charani		123 ABC Street	9876543210	1
3	Chinnmayee		789 PQR Street	7894321098	3
4	Govdham		101 MNO Street	6543210987	1
5	Chetan		202 JKL Street	5432109876	3
6	Srikar		303 QH Street	4321098765	3

The status bar at the bottom indicates 'Query executed successfully.' and 'CHARANI-02\SQLEXPRESS (16.0.0000.0) CHARANI-02\chara (53) dbmsdb 00:00:00 6 rows'.

Recipient Table:

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The left pane shows the 'Object Explorer' with the 'CHARANI-02\SQLEXPRESS (SQL Server 16.0)' server selected. The 'Database Explorer' shows the 'dbmsdb' database. The 'Tables' folder is expanded, showing the 'Recipient' table. The 'SQLQuery1.sql' window shows the following SQL script:

```
UPDATE ADMIN SET BLOOD_ID = 1 WHERE ADMIN_ID IN (2, 4);
UPDATE ADMIN SET BLOOD_ID = 2 WHERE ADMIN_ID IN (1);
UPDATE ADMIN SET BLOOD_ID = 3 WHERE ADMIN_ID IN (3, 5, 6);

-- Modify the data in RECIPIENT Table to include BLOOD_ID
UPDATE RECIPIENT SET BLOOD_ID = 1 WHERE ID IN (102, 104);
UPDATE RECIPIENT SET BLOOD_ID = 2 WHERE ID IN (101);
UPDATE RECIPIENT SET BLOOD_ID = 3 WHERE ID IN (103, 105, 106);

select * from ADMIN;
select * from RECIPIENT;
```

The 'Results' pane shows the data for the 'Recipient' table:

ID	NAME	PHONE_NO	DOB	AGE	BLOOD_ID
101	Mythri	9876543210	1995-03-15	27	2
102	Charani	9876543210	1990-08-20	32	1
103	Chinnmayee	8765432109	2000-05-12	21	3
104	Govdham	8765432109	1985-11-10	36	1
105	Chetan	8765432109	1998-07-25	23	3
106	Srikar	4321098765	1980-04-18	42	3

The status bar at the bottom indicates 'Query executed successfully.' and 'CHARANI-02\SQLEXPRESS (16.0.0000.0) CHARANI-02\chara (53) dbmsdb 00:00:00 6 rows'.

Blood Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'CHARANI-02\SQLEXPRESS (SQL Server 1)'. The main query window contains the following SQL code:

```
UPDATE ADMIN SET BLOOD_ID = 1 WHERE ADMIN_ID IN (2, 4);
UPDATE ADMIN SET BLOOD_ID = 2 WHERE ADMIN_ID IN (1);
UPDATE ADMIN SET BLOOD_ID = 3 WHERE ADMIN_ID IN (3, 5, 6);

-- Modify the data in RECIPIENT Table to include BLOOD_ID
UPDATE RECIPIENT SET BLOOD_ID = 1 WHERE ID IN (102, 104);
UPDATE RECIPIENT SET BLOOD_ID = 2 WHERE ID IN (101);
UPDATE RECIPIENT SET BLOOD_ID = 3 WHERE ID IN (103, 105, 106);

select * from ADMIN;
select * from RECIPIENT;
select * from BLOOD;
```

The Results pane at the bottom shows the output of the 'select * from BLOOD;' query:

BLOOD_ID	BLOOD_TYPE
1	A+
2	B-
3	O+
4	A-
5	B+
6	AB+
7	AB-
8	O-

The status bar at the bottom indicates 'Query executed successfully.' and 'CHARANI-02\SQLEXPRESS (16.0. CHARANI-02\chara (53) dbmsdb 00:00:00 8 rows'.

Location Table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'CHARANI-02\SQLEXPRESS (SQL Server 1)'. The main query window contains the following SQL code:

```
UPDATE LOCATION SET CITY = 'CityC', COUNTRY = 'CountryZ', PINCODE = '33333' WHERE CITY = 'CityA' AND PINCODE = '11111';

select * from ADMIN;
select * from RECIPIENT;
select * from LOCATION;
```

The Results pane at the bottom shows the output of the 'select * from LOCATION;' query:

CITY	COUNTRY	PINCODE
CityA	CountryX	11111
CityB	CountryY	22222
CityC	CountryZ	33333
Cityville	Countryland	12345

The status bar at the bottom indicates 'Query executed successfully.' and 'CHARANI-02\SQLEXPRESS (16.0. CHARANI-02\chara (53) dbmsdb 00:00:00 4 rows'.

API Table:

