

Color Mixing Program

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graph TD; Title[Color Mixing Program]; Title --- SQL[SQL Database]; Title --- Python[Python Interface]; Title --- Arduino[Arduino Base Mixing Control];
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SQL Database

Python
Interface

Arduino Base
Mixing Control

SQL Database

Color Table			
SrNo	Base Color	Stock	Date
1	Blue		27 Sep 2024
2	Green		27 Sep 2024
3	Red		27 Sep 2024
4	Yellow		27 Sep 2024
5	Pink		27 Sep 2024
6	Black		27 Sep 2024
7	White		27 Sep 2024
8	Clear		27 Sep 2024
9	Orange		27 Sep 2024
10	Mixer 1		27 Sep 2024
11	Mixer 2		27 Sep 2024

BOM Heading		
SrNo	Final Color	Date
1	Sky Blue	27 Sep 2024
2	Leave Green	27 Sep 2024
3	Student Green	27 Sep 2024
4	Coffee Brown	27 Sep 2024

Bom Detail				
SrNo	Final Color	Base Color	Percentage	Date
1	Sky Blue	Blue	35	27 Sep 2024
2	Sky Blue	White	35	27 Sep 2024
3	Sky Blue	Clear	30	27 Sep 2024
4	Sky Blue	Mixer 1	30	27 Sep 2024
5	Leave Green	Blue	25	27 Sep 2024
6	Leave Green	Green	25	27 Sep 2024
7	Leave Green	Yellow	50	27 Sep 2024
8	Leave Green	Mixer 1	50	27 Sep 2024
9	Student Green	Yellow	40	27 Sep 2024
10	Student Green	Blue	40	27 Sep 2024
11	Student Green	White	20	27 Sep 2024
12	Student Green	Mixer 2	50	27 Sep 2024
13	Coffee Brown	Red	45	27 Sep 2024
14	Coffee Brown	Yellow	45	27 Sep 2024
15	Coffee Brown	Black	10	27 Sep 2024
16	Coffee Brown	Mixer 2	50	27 Sep 2024

Dispensing Heading					
SrNo	Final Color	Batch No	Quantity	Date	Duration
1	Sky Blue	X001	100	27 Sep 2024	
2	Leave Green	X002	200	27 Sep 2024	
3	Student Green	X003	150	27 Sep 2024	
4	Coffee Brown	X004	50	27 Sep 2024	

Dispensing Detail						
SrNo	Final Color	Batch No	Base Color	Percentage	Actual	Date
1	Sky Blue	X001	Blue			27 Sep 2024
2	Sky Blue	X001	White			27 Sep 2024
3	Sky Blue	X001	Clear			27 Sep 2024
4	Sky Blue	X001	Mixer 1			27 Sep 2024
5	Leave Green	X002	Blue			27 Sep 2024
6	Leave Green	X002	Green			27 Sep 2024
7	Leave Green	X002	Yellow			27 Sep 2024
8	Leave Green	X002	Mixer 1			27 Sep 2024
9	Student Green	X003	Yellow			27 Sep 2024
10	Student Green	X003	Blue			27 Sep 2024
11	Student Green	X003	White			27 Sep 2024
12	Student Green	X003	Mixer 2			27 Sep 2024
13	Coffee Brown	X004	Red			27 Sep 2024
14	Coffee Brown	X004	Yellow			27 Sep 2024
15	Coffee Brown	X004	Black			27 Sep 2024
16	Coffee Brown	X004	Mixer 2			27 Sep 2024

SQL Database

Stock Record				
SrNo	Base Color	Batch Number	In	Date
1	Blue	A001	100	27 Sep 2024
2	Green	A002	100	27 Sep 2024
3	Red	B001	100	27 Sep 2024
4	Yellow	B002	100	27 Sep 2024
5	Pink	C001	100	27 Sep 2024
6	Black	C002	100	27 Sep 2024
7	White	D001	100	27 Sep 2024
8	Clear	D002	100	27 Sep 2024
9	Orange	D002	100	27 Sep 2024

Microsoft SQL Server Management Studio

Connect to Server

SQL Server

Server type: Database Engine

Server name: DESKTOP-AQELM4S\SQLEXPRESS

Authentication: Windows Authentication

User name: DESKTOP-AQELM4S\User

Password:

☐ Remember password

Connect Cancel Help Options >>

Python Interface

Main Screen

Color Entry

Bom Entry

Stock Entry

Dispensing

Color Entry

SrNo

Base Color

Date

Submit

Edit

Bom Entry

SrNo

Final Color

Date

SrNo	Base Color	Percentage
1	Blue	35
2	White	35
3	Clear	30
4	Mixer 1	30

Submit

Edit

Stock Entry

SrNo

Base Color

Batch No

Date

Submit

Edit

Dispensing

SrNo

Final Color

Quantity

Date

Duration

Sky Blue



100

100

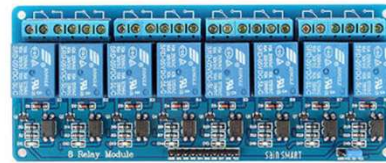
SrNo	Base Color	Percentage	Actual
1	Blue	35	
2	White	35	
3	Clear	30	
4	Mixer 1	30	

Dispense

Edit

Data From
Bom
Heading
Final Color

Arduino Base Mixing Control



Pump
X 9



Flow Meter
X 9



Stepper Motor
X 2