DBMS PROJECT
Report

Project Title:
Electricity management and bill generation.

Synopsis:

This application can be a very good one when put into use because it allows users to manage the electricity for their company. . Bills are very important to make a note of each and every cost . so our application can generate the bill based on the predefined units and rates considering the hours of usage.This can reduce the effort of worrying about no of hours and bills. This application allows the user to add a new appliance for his company and view all the appliances available is his database. The user must be specific with his username and password as it is crucial for the database to map to his data.

To build this project we have used:

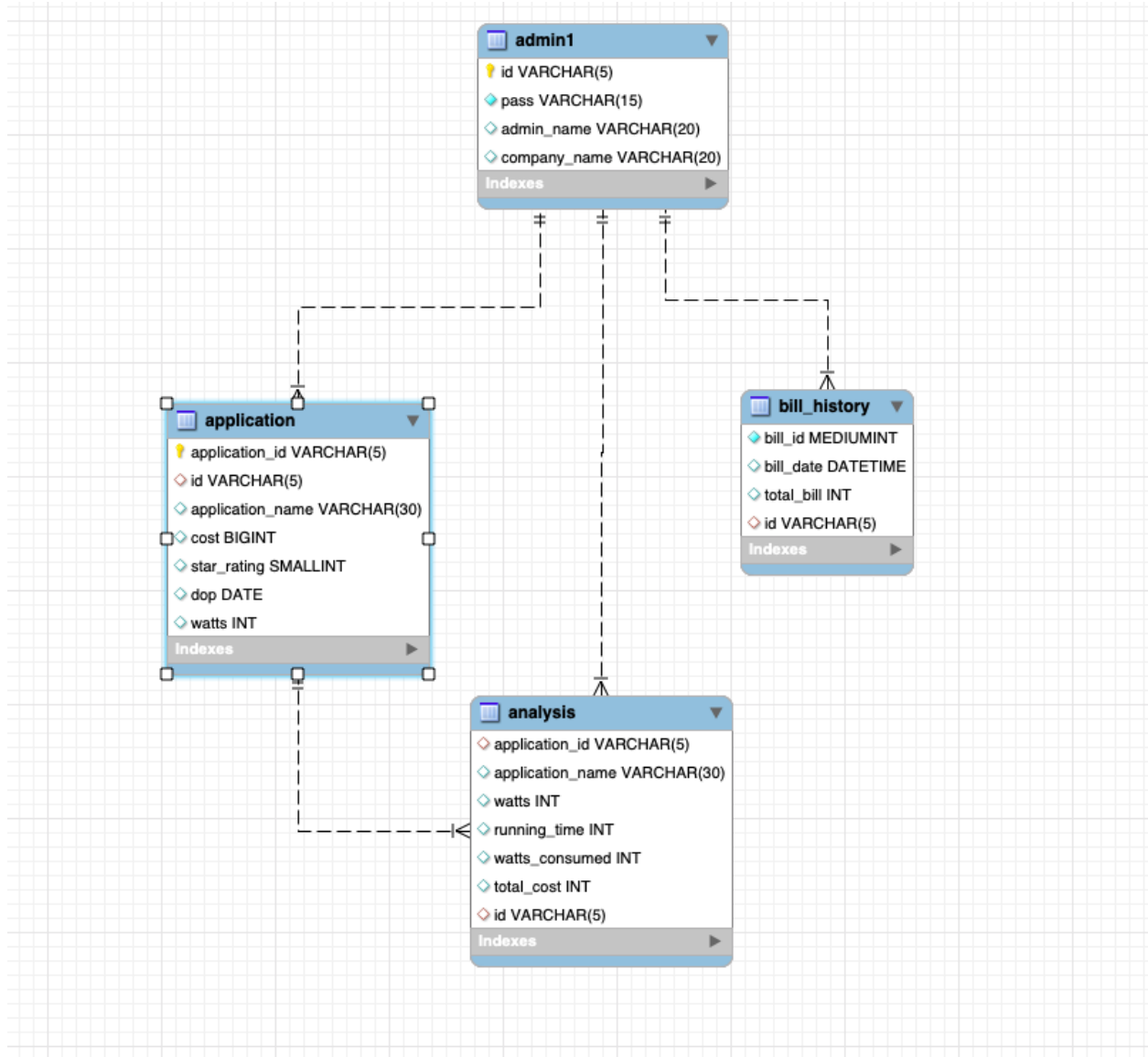**HTML , PHP , XAMPP server , MYSQL DATABASE**

Project flow:

We Used XAMPP server to connect database and our html files using PHP.
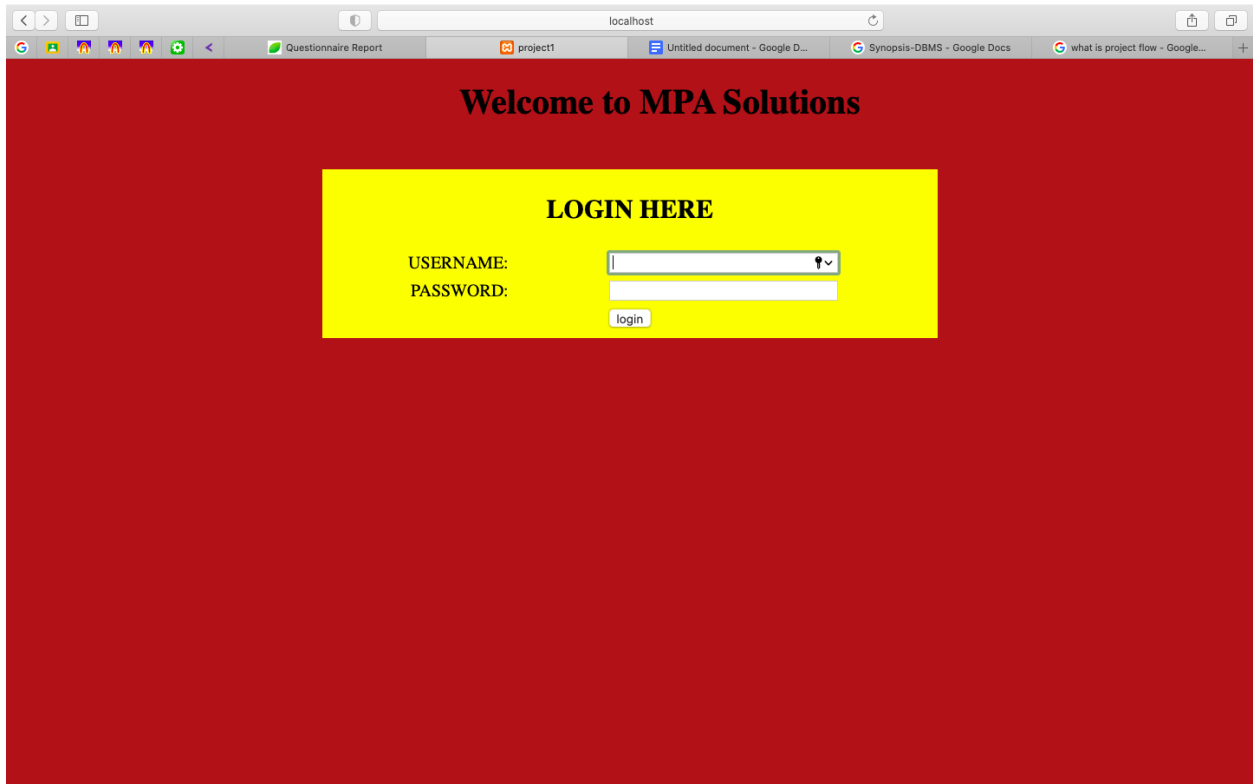
We have created 4 tables in the database:
- **_Admin1_**
  Here all the data of the customer will be stored
- **_Application_**
  In this data ,the customer can add appliances through our website and all the information will be stored here.
- **_Analysis_**
  In the analysis table we add the data analysed from the appliances like watts consumed etc.
- **_Bill_history_**

All the bills generated will be stored in this table for future verification

ERD DIAGRAM

admin1
- id VARCHAR(5)
- pass VARCHAR(15)
- admin_name VARCHAR(20)
- company_name VARCHAR(20)
- Indexes

application
- application_id VARCHAR(5)
- id VARCHAR(5)
- application_name VARCHAR(30)
- cost BIGINT
- star_rating SMALLINT
- dop DATE
- watts INT
- Indexes

bill_history
- bill_id MEDIUMINT
- bill_date DATETIME
- total_bill INT
- id VARCHAR(5)
- Indexes

analysis
- application_id VARCHAR(5)
- application_name VARCHAR(30)
- watts INT
- running_time INT
- watts_consumed INT
- total_cost INT
- id VARCHAR(5)
- Indexes

PREVIEW
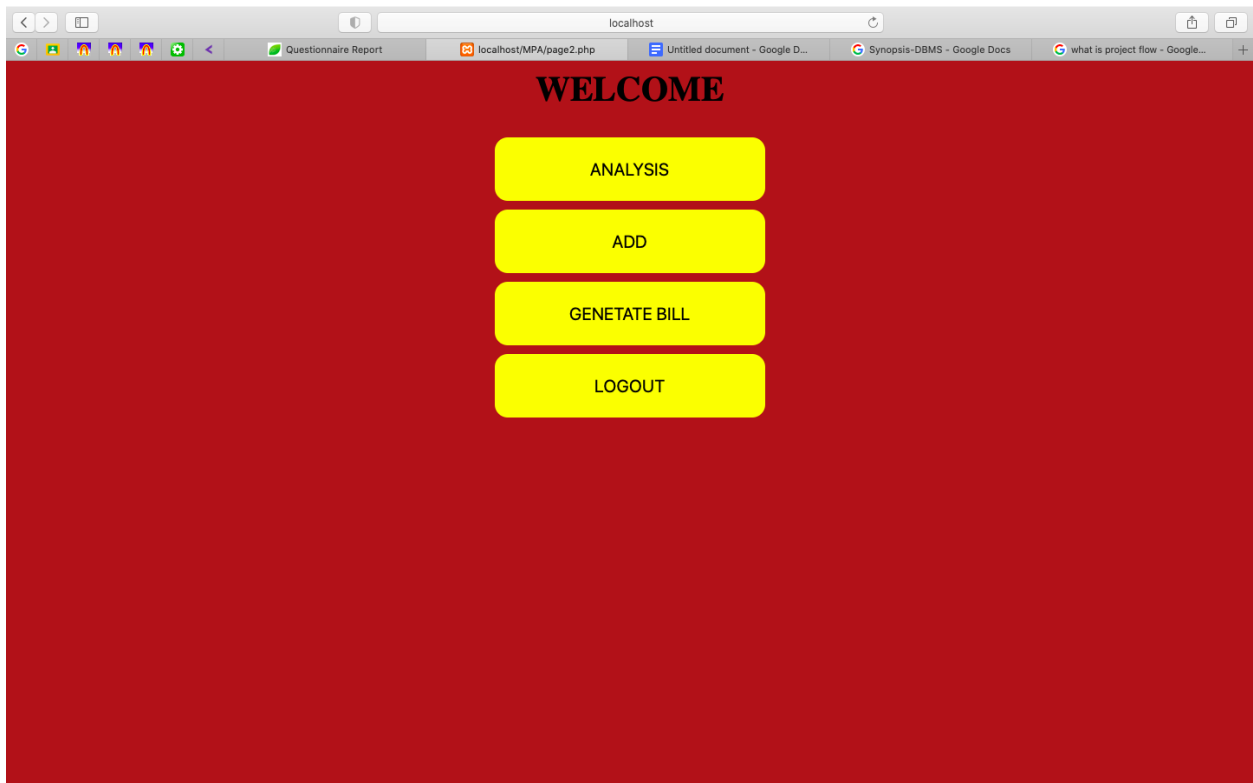
Welcome to MPA Solutions

LOGIN HERE

USERNAME:

PASSWORD:

login

WELCOME

ANALYSIS

ADD

GENETATE BILL

LOGOUT

ANALYSIS TABLE

PREVIOUS PAGE

APPLICATION NAME	APPLICATION ID	WATTS	RUNNING TIME	WATTS CONSUMED	TOTAL COST
television	mt010	600	79	47400	261
steam	mt221	800	12	9600	53
Alexa	mt453	3	15	0	0
vacuum cleaner	mt453	1000	34	0	0
grinder	mt870	750	34	0	0

ADD OR VIEW

PREVIOUS PAGE

ADD NEW   VIEW

APPLICATION NAME	APPLICATION ID	ID	COST	WATTS	STAR RATING	DATE OF PURCHASE
television	mt010	ap181	32000	600	4	2020-04-10
stream	mt221	ap181	2500	800	4	2020-11-01
alexa	mt453	ap181	5300	3	4	2020-11-21
Vacuum cleaner	mt603	ap181	3500	1000	2	2020-09-07
Grinder	mt870	ap181	7000	750	3	2020-08-03

PREVIOUS PAGE

GENERATE BILL

Schedule

total bill:314 rs

STORE

APPLICATION NAME	APPLICATION ID	CONSUMED WATTS	RUNNING TIME	TOTAL COST
television	mt010	47400	79	261
steam	mt221	9600	12	53
Alexa	mt453	0	15	0
vacuum cleaner	mt453	0	34	0
grinder	mt870	0	34	0

DATABASE PREVIEW

phpMyAdmin

Recent   Favorites

- New
- admin
- information_schema
- MPA
  - New
  - admin1
  - analysis
  - application
  - bill_history
- mysql
- performance_schema
- phpmyadmin
- test

Server: localhost » Database: MPA » Table: analysis

Browse   Structure   SQL   Search   Insert   Export   Import   Privileges   More

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25   Filter rows: Search this table   Sort by key: None

+ Options

application_id	application_name	watts	running_time ▼ 1	watts_consumed	total_cost	id
mt010	television	600	79	47400	261	ap181
it390	printer-scanner	500	56	28000	154	ap183
bc324	Leg massager	60	45	0	0	ap182
it562	cc camera	15	45	675	4	ap183
mt870	grinder	750	34	0	0	ap181
mt453	vacuum cleaner	1000	34	0	0	ap181
it932	cooler	1200	34	40800	224	ap183
it345	coffee machine	1000	34	3400	19	ap183
bc233	Refrigerator	1200	23	27600	152	ap182
it934	Central ac	3500	20	70000	385	ap183
mt453	Alexa	3	15	0	0	ap181
mt221	steam	800	12	9600	53	ap181
bc304	water purifier	240	12	2880	16	ap182
bc621	printer	400	4	1600	9	ap182
bc312	air conditioner	600	3	1800	10	ap182

Show all | Number of rows: 25   Filter rows: Search this table   Sort by key: None

Console

phpMyAdmin

Recent   Favorites

- New
- admin
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  - New
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  - application
  - bill_history
- mysql
- performance_schema
- phpmyadmin
- test

Server: localhost » Database: MPA » Table: application

Browse   Structure   SQL   Search   Insert   Export   Import   Privileges   More

+ Options

			application_id	id	application_name	cost	star_rating	dop	watts
Edit	Copy	Delete	bc233	ap182	Refrigerator	70000	5	2020-11-03	1200
Edit	Copy	Delete	bc304	ap182	water purifier	15000	3	2020-11-10	240
Edit	Copy	Delete	bc312	ap182	air conditioner	40000	4	2020-06-16	600
Edit	Copy	Delete	bc324	ap182	Leg massager	12000	4	2020-06-09	60
Edit	Copy	Delete	bc621	ap182	printer	10000	3	2020-11-02	400
Edit	Copy	Delete	it345	ap183	coffee machine	12000	3	2020-05-04	1000
Edit	Copy	Delete	it390	ap183	printr-scanner	23000	4	2020-11-17	500
Edit	Copy	Delete	it562	ap183	cc camera	4000	3	2020-11-09	15
Edit	Copy	Delete	it932	ap183	cooler	9000	4	2020-11-02	1200
Edit	Copy	Delete	it934	ap183	Central ac	45000	4	2020-07-14	3500
Edit	Copy	Delete	mt010	ap181	television	32000	4	2020-04-10	600
Edit	Copy	Delete	mt221	ap181	stream	2500	4	2020-11-01	800
Edit	Copy	Delete	mt453	ap181	alexa	5300	4	2020-11-21	3
Edit	Copy	Delete	mt603	ap181	Vacuum cleaner	3500	2	2020-09-07	1000
Edit	Copy	Delete	mt870	ap181	Grinder	7000	3	2020-08-03	750

Check all   With selected: Edit   Copy   Delete   Export

Console

Conclusion:

Electricity management and bill generation project is a very efficient one and further development can make it a good market product.