

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:

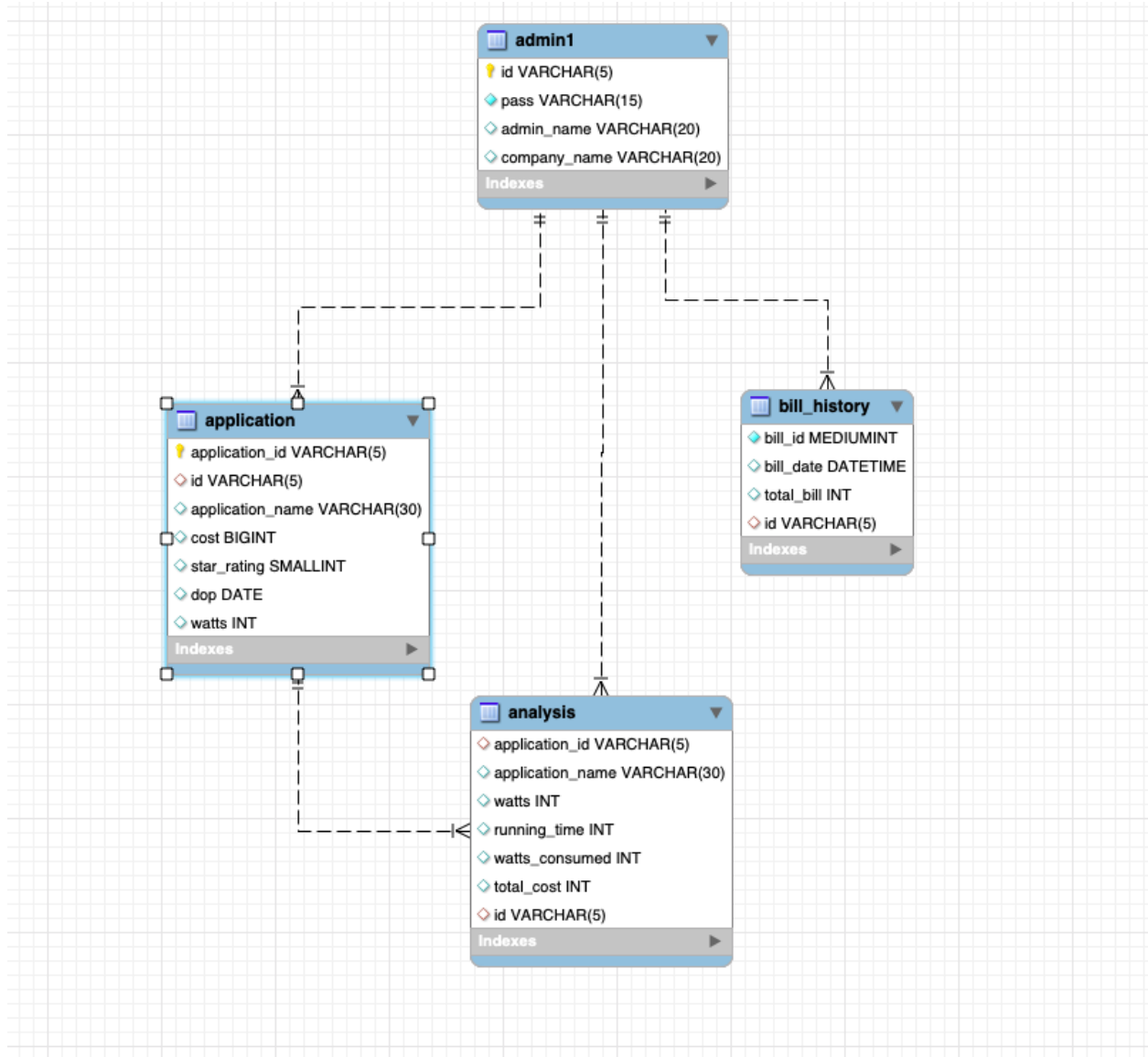
We Used XAMPP server to connect database and our html files using PHP.

We have created 4 tables in the database:

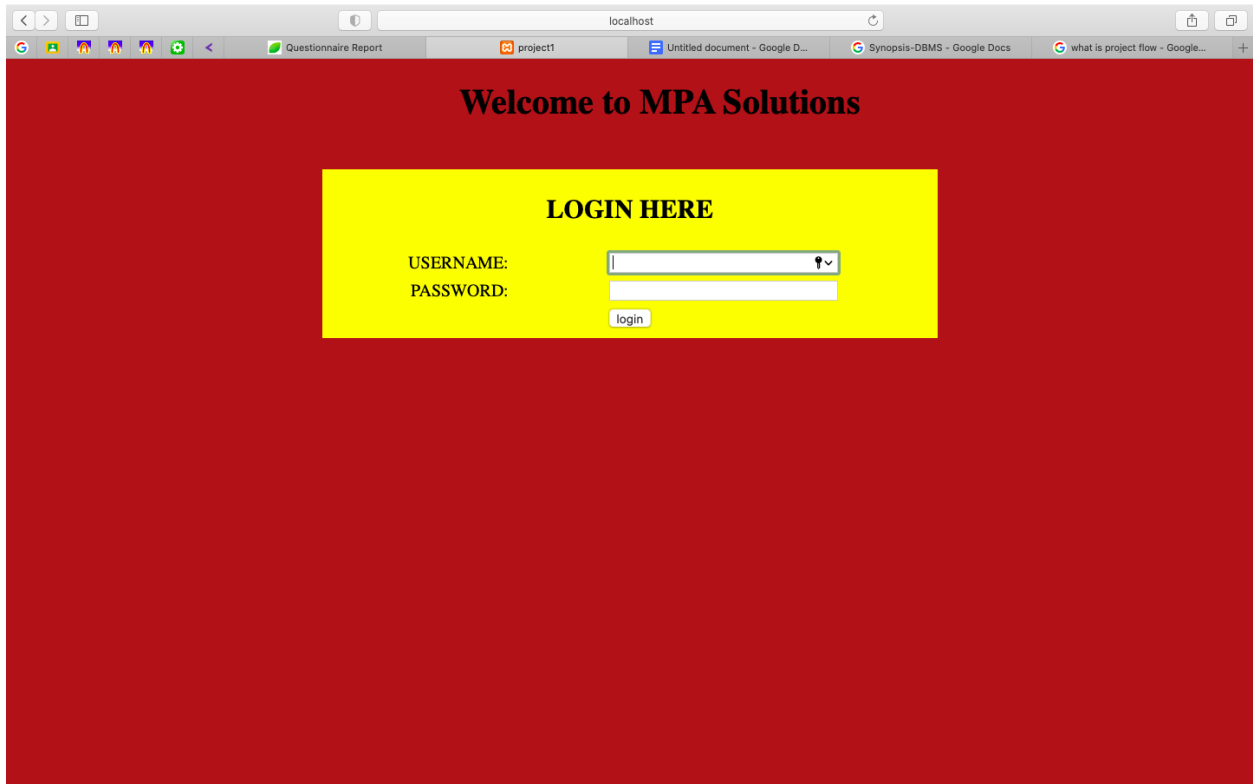
- **Admin1**
Here all the data of the customer will be stored
- **Application**
In this data ,the customer can add appliances through our website and all the information will be stored here.
- **Analysis**
In the analysis table we add the data analysed from the appliances like watts consumed etc.
- **Bill_history**

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

ERD DIAGRAM



PREVIEW



A screenshot of a web browser window displaying a login page. The browser's address bar shows 'localhost'. The page has a solid red background. At the top, the text 'Welcome to MPA Solutions' is centered in a bold, black, serif font. Below this, a yellow rectangular box is centered. Inside the box, the text 'LOGIN HERE' is centered in a bold, black, serif font. Underneath, the labels 'USERNAME:' and 'PASSWORD:' are aligned to the left. To the right of 'USERNAME:' is a text input field with a small dropdown arrow on its right side. To the right of 'PASSWORD:' is another text input field. Below the password field is a small, light gray button with the text 'login' in a lowercase, sans-serif font. The browser's tab bar shows several tabs, including 'Questionnaire Report', 'project1', 'Untitled document - Google D...', 'Synopsis-DBMS - Google Docs', and 'what is project flow - Google...'.

localhost

Questionnaire Report project1 Untitled document - Google D... Synopsis-DBMS - Google Docs what is project flow - Google...

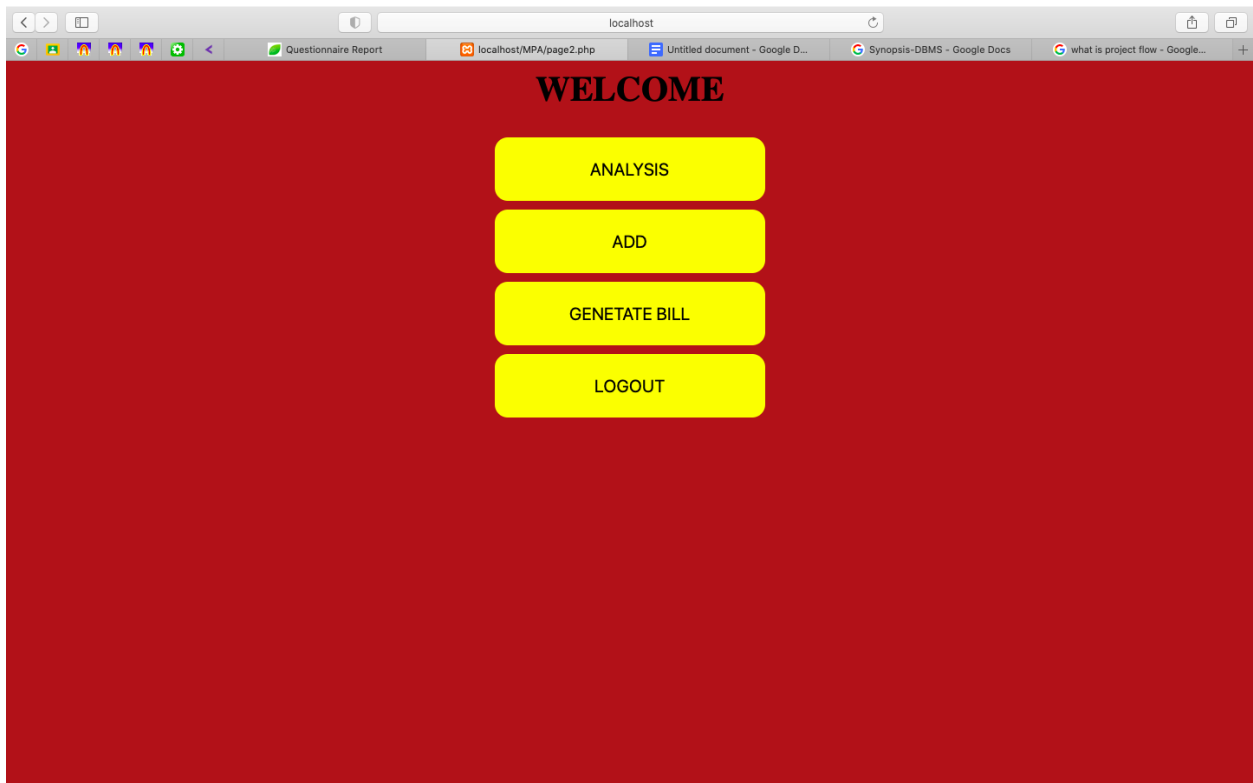
Welcome to MPA Solutions

LOGIN HERE

USERNAME:

PASSWORD:

login



A screenshot of a web browser window displaying a welcome page. The browser's address bar shows 'localhost'. The page has a solid red background. At the top, the text 'WELCOME' is centered in a bold, black, serif font. Below this, four yellow rectangular buttons are stacked vertically and centered. Each button contains text in a bold, black, sans-serif font: 'ANALYSIS', 'ADD', 'GENETATE BILL', and 'LOGOUT'. The browser's tab bar shows several tabs, including 'Questionnaire Report', 'localhost/MPA/page2.php', 'Untitled document - Google D...', 'Synopsis-DBMS - Google Docs', and 'what is project flow - Google...'.

localhost

Questionnaire Report localhost/MPA/page2.php Untitled document - Google D... Synopsis-DBMS - Google Docs what is project flow - Google...

WELCOME

ANALYSIS

ADD

GENETATE BILL

LOGOUT

localhost

Questionnaire Reportlocalhost/MPA/analysispage.p...Untitled document - Google D...Synopsis-DBMS - Google Docswhat is project flow - Google...

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

localhost

Questionnaire Reportlocalhost/MPA/addpage.php?Untitled document - Google D...Synopsis-DBMS - Google Docswhat is project flow - Google...

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

localhost

localhost/MPA/generate.php?

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

The screenshot shows the phpMyAdmin interface in a Safari browser. The left sidebar displays the database structure with 'admin1' selected under the 'MPA' database. The main panel shows the 'Browse' view of the 'admin1' table. A green status bar indicates 'Showing rows 0 - 2 (3 total, Query took 0.0008 seconds.)'. The SQL query is 'SELECT * FROM `admin1`'. Below the query, there are controls for 'Show all', 'Number of rows' (set to 25), 'Filter rows' (Search this table), and 'Sort by key' (None). The table data is displayed with columns: id, pass, admin_name, and company_name. The data rows are:

id	pass	admin_name	company_name
ap181	company1	Mohan	Miniature
ap182	1company1	Parthu	broad-com
ap183	21company	Avinash	Info-Tech

Below the table, there are 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view. The bottom of the screen shows the macOS dock with various application icons.

The screenshot shows the phpMyAdmin interface in a Safari browser. The left sidebar displays the database structure with 'bill_history' selected under the 'MPA' database. The main panel shows the 'Browse' view of the 'bill_history' table. A green status bar indicates 'Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)'. The SQL query is 'SELECT * FROM `bill_history`'. Below the query, there are controls for 'Show all', 'Number of rows' (set to 25), 'Filter rows' (Search this table), and 'Sort by key' (None). The table data is displayed with columns: bill_id, bill_date, total_bill, and id. The data row is:

bill_id	bill_date	total_bill	id
493	2020-11-29 00:00:00	187	ap182

Below the table, there are 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view. At the bottom, there is a 'Bookmark this SQL query' section with a checkbox 'Let every user access this bookmark'. The bottom of the screen shows the macOS dock with various application icons.

Safari File Edit View History Bookmarks Window Help

localhost

Launch Meeting - Zoom

localhost / localhost / admin | phpMyAdmin 5.0.3

localhost / localhost / MPA / analysis | phpMyAdmin 5.0.3

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	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

Safari File Edit View History Bookmarks Window Help

localhost

Launch Meeting - Zoom

localhost / localhost / admin | phpMyAdmin 5.0.3

localhost / localhost / MPA / application | phpMyAdmin 5.0.3

phpMyAdmin

Recent Favorites

- New
- admin
- information_schema
- MPA
 - New
 - admin1
 - analysis
 - 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
bc233	ap182	Refrigerator	70000	5	2020-11-03	1200
bc304	ap182	water purifier	15000	3	2020-11-10	240
bc312	ap182	air conditioner	40000	4	2020-06-16	600
bc324	ap182	Leg massager	12000	4	2020-06-09	60
bc621	ap182	printer	10000	3	2020-11-02	400
it345	ap183	coffee machine	12000	3	2020-05-04	1000
it390	ap183	printn-scanner	23000	4	2020-11-17	500
it562	ap183	cc camera	4000	3	2020-11-09	15
it932	ap183	cooler	9000	4	2020-11-02	1200
it934	ap183	Central ac	45000	4	2020-07-14	3500
mt010	ap181	television	32000	4	2020-04-10	600
mt221	ap181	stream	2500	4	2020-11-01	800
mt453	ap181	alexa	5300	4	2020-11-21	3
mt603	ap181	Vacuum cleaner	3500	2	2020-09-07	1000
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.