

WEB TECHNOLOGY

EXPENSE TRACKER PROJECT

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Overview

- Objective
- *Technologies*
- *Architecture*
- *Codes*
- *Output*
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- *Future Work*
- *Conclusion*



Objective

- **User Management:** Secure account creation, management, and deletion with authentication and authorization.
- **Expense Recording:** Easy and flexible expense entry with details like amount, date, category, and description.
- **Categorization & Tagging:** Customizable categories and tags for personalized expense tracking.
- **Data Visualization:** Charts and graphs to visualize spending patterns along with filtering and sorting options.
- **Budget Management:** Set budgets by category, track progress, and receive notifications for potential overspending.
- **Reporting & Analytics:** Generate reports, gain insights, and receive recommendations for financial improvement.
- **Responsive Design:** Ensures accessibility across various devices.
- **Data Security & Privacy:** Prioritizes user data protection through robust security measures and compliance with regulations.

Technologies



Frontend

HTML
CSS
JavaScript
jQuery



Backend

PHP



Database

MySQL



Server

XAMPP

Architecture



Frontend

- User Interface:
 - Login Page: Form for users to log in.
 - Register Page: Form for users to create an account.
- User Registration:
 - Capture user details and send them to the backend for registration.
 - Display success or error messages based on the backend response.
- User Login:
 - Capture login credentials and send them to the backend for authentication.
 - Store user information on successful login and redirect to the dashboard.
- Add Expense:
 - Capture expense details and send them to the backend to be stored.
- Display Expenses:
 - Request the user's expenses from the backend and display them.



Backend(PHP)

- Database Configuration:
 - Establish a connection to the MySQL database.
- User Registration:
 - Accept user details (name, email, password).
 - Hash the password and store the user details in the database.
- User Login:
 - Accept login credentials (email, password).
 - Verify the credentials and return user information if valid.
- Add Expense:
 - Accept expense details (user ID, amount, category, description).
 - Store the expense details in the database.
- Retrieve Expenses:
 - Fetch and return the list of expenses for a specific user.
- Database: MySQL

CODES

sidebar

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
?>

<div id="sidebar-collapse" class="col-sm-3 col-lg-2 sidebar">
    <div class="profile-sidebar">
        <div class="profile-userpic">
            
        </div>
        <div class="profile-usertitle">
            <?php
$uid=$_SESSION['detsuid'];
$ret=mysqli_query($con,"select FullName from tbluser where ID='$uid'");
$row=mysqli_fetch_array($ret);
$name=$row['FullName'];

?>
            <div class="profile-usertitle-name"><?php echo $name; ?></div>
            <div class="profile-usertitle-status"><span class="indicator label-success"></span>Online</div>
        </div>
        <div class="clear"></div>
    </div>
    <div class="divider"></div>

    <ul class="nav menu">
        <li class="active"><a href="dashboard.php"><em class="fa fa-dashboard">&nbsp;</em> Dashboard</a></li>

        <li class="parent "><a data-toggle="collapse" href="#sub-item-1">
            <em class="fa fa-navicon">&nbsp;</em>Expenses <span data-toggle="collapse" href="#sub-item-1" class="icon pull-right"><em class="fa fa-plus"></em></span>
            </a>
            <ul class="children collapse" id="sub-item-1">
                <li><a class="" href="add-expense.php">
                    <span class="fa fa-arrow-right">&nbsp;</span> Add Expenses
                </li>
            </ul>
        </li>
    </ul>
</div>
```

EXPLORER

> OPEN EDITORS

EXPENS...

CSS

styles.css1

fonts

includes

dbconnection.php

header.php

sidebar.php

js

SQL File

tables

add-expense.php

change-password.php

dashboard.php

expense-datewise-re...

expense-datewise-re...

expense-monthwise-r...

expense-monthwise-r...

expense-reports-deta...

expense-reports.php

expense-yearwise-rep...

expense-yearwise-rep...

forgot-password.php

index.php

logout.php

manage-expense.php

register.php

reset-password.php

user-profile.php

assets\images

expenses-icon.jpg

register.phpregister.php

1<?php

2session_start();

3error_reporting(0);

4include('includes/dbconnection.php');

5if(isset(\$_POST['submit']))

6{

7\$fname=\$_POST['name'];

8\$mobno=\$_POST['mobilenumber'];

9\$email=\$_POST['email'];

10\$password=md5(\$_POST['password']);

11

12\$ret=mysqli_query(\$con, "select Email from tbluser where Email='\$email' ");

13\$result=mysqli_fetch_array(\$ret);

14if(\$result>0){

15\$msg="This email associated with another account";

16}

17else{

18\$query=mysqli_query(\$con, "insert into tbluser(FullName, MobileNumber, Email, Password) value('\$fname', '\$mobno', '\$email', '\$password')");

19if (\$query) {

20\$msg="You have successfully registered";

21}

22else

23{

24\$msg="Something Went Wrong. Please try again";

25}

26}

27}

28?>

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<div class="panel-body">

<form role="form" action="" method="post" id="" name="signup" onsubmit="return checkpass();">

<p style="font-size:16px; color:red; align="center"> <?php if(\$msg){

echo \$msg;

?> </p>

<fieldset>

<div class="form-group">

<input class="form-control" placeholder="Full Name" name="name" type="text" required="true">

</div>

<div class="form-group">

<input class="form-control" placeholder="E-mail" name="email" type="email" required="true">

</div>

<div class="form-group">

<input type="text" class="form-control" id="mobilenumber" name="mobilenumber" placeholder="Mobile Number" maxlength=

</div>

<div class="form-group">

<input class="form-control" placeholder="Password" name="password" type="password" value="" required="true">

</div>

<div class="form-group">

<input type="password" class="form-control" id="repeatpassword" name="repeatpassword" placeholder="Repeat Password"

</div>

<div class="checkbox"> ...

</div>

</fieldset>

</form>

</div>

```

1 <?php
2 session_start();
3 error_reporting(0);
4 include('includes/dbconnection.php');
5 if (strlen($_SESSION['detsuid']==0)) {
6     header('location:logout.php');
7 } else{
8
9 if(isset($_POST['submit']))
10 {
11     $userid=$_SESSION['detsuid'];
12     $dateexpense=$_POST['dateexpense'];
13     $item=$_POST['item'];
14     $costitem=$_POST['costitem'];
15     $query=mysqli_query($con, "insert into tblexpense(UserId,ExpenseDate,ExpenseItem,ExpenseCost) value('$userid','$dateexpense','$item','$costitem'
16 if($query){
17     echo "<script>alert('Expense has been added');</script>";
18     echo "<script>window.location.href='manage-expense.php'</script>";
19 } else {
20     echo "<script>alert('Something went wrong. Please try again');</script>";
21 }
22 }
23 ?>
24

```

```

<div class="col-md-12">
    <form role="form" method="post" action="">
        <div class="form-group">
            <label>Date of Expense</label>
            <input class="form-control" type="date" value="" name="dateexpense" required="true">
        </div>
        <div class="form-group">
            <label>Item</label>
            <input type="text" class="form-control" name="item" value="" required="true">
        </div>
        <div class="form-group">
            <label>Cost of Item</label>
            <input class="form-control" type="text" value="" required="true" name="costitem">
        </div>
        <div class="form-group has-success">
            <button type="submit" class="btn btn-primary" name="submit">Add</button>
        </div>
    </div>
</form>
</div>

```


localhost/phpmyadmin/index.php?route=/database/structure&db=detsdb

Server: 127.0.0.1 » Database: detsdb

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Design

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> tblexpense		1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> tbluser		1	InnoDB	latin1_swedish_ci	16.0 KiB	-
2 tables	Sum	2	InnoDB	utf8mb4_general_ci	32.0 KiB	0 B

☐ Check all With selected:

Server: 127.0.0.1 » Database: detsdb » Table: tblexpense

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	ID	int(10)			No	None		AUTO_INCREMENT	
<input type="checkbox"/> 2	UserId	int(10)			No	None			
<input type="checkbox"/> 3	ExpenseDate	timestamp			No	current_timestamp()			
<input type="checkbox"/> 4	ExpenseItem	varchar(200)	latin1_swedish_ci		Yes	NULL			
<input type="checkbox"/> 5	ExpenseCost	varchar(200)	latin1_swedish_ci		Yes	NULL			
<input type="checkbox"/> 6	NoteDate	timestamp			No	current_timestamp()			

☐ Check all With selected:

Server: 127.0.0.1 » Database: detsdb » Table: tbluser

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	ID	int(10)			No	None		AUTO_INCREMENT	
<input type="checkbox"/> 2	FullName	varchar(150)	latin1_swedish_ci		Yes	NULL			
<input type="checkbox"/> 3	Email	varchar(200)	latin1_swedish_ci		Yes	NULL			
<input type="checkbox"/> 4	MobileNumber	bigint(10)			Yes	NULL			
<input type="checkbox"/> 5	Password	varchar(200)	latin1_swedish_ci		Yes	NULL			
<input type="checkbox"/> 6	RegDate	timestamp			No	current_timestamp()			

☐ Check all With selected:

```
detsdb.sql SQL File\detsdb.sql

1  SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
2  SET AUTOCOMMIT = 0;
3  START TRANSACTION;
4  SET time_zone = "+00:00";
5
6
7  CREATE TABLE `tblexpense` (
8    `ID` int(10) PRIMARY KEY AUTO_INCREMENT NOT NULL,
9    `UserId` int(10) NOT NULL,
10   `ExpenseDate` timestamp NOT NULL CURRENT_TIMESTAMP,
11   `ExpenseItem` varchar(200) DEFAULT NULL,
12   `ExpenseCost` varchar(200) DEFAULT NULL,
13   `NoteDate` timestamp NOT NULL CURRENT_TIMESTAMP
14 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
15
16
17 CREATE TABLE `tbluser` (
18   `ID` int(10) PRIMARY KEY AUTO_INCREMENT NOT NULL,
19   `FullName` varchar(150) DEFAULT NULL,
20   `Email` varchar(200) DEFAULT NULL,
21   `MobileNumber` bigint(10) DEFAULT NULL,
22   `Password` varchar(200) DEFAULT NULL,
23   `RegDate` timestamp NOT NULL CURRENT_TIMESTAMP
24 ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
25
```

OUTPUT

ct/index.php

Daily Expense Tracker

Log in

Forgot Password?

Daily Expense Tracker

Sign Up

localhost/expense-tracker-project/dashboard.php

EXPENSE TRACKER

Nafisa Rehmani ONLINE

Expense Summary

Expense Summary

Expenses +

Expense Report +

Profile

Change Password

Logout

Expense Summary

Today's Expense

0

Yesterday's Expense

0

Last 7 day's Expense

0

Last 30 day's Expenses

0

Current Year Expenses

0

Total Expenses

0

EXPENSE TRACKER

\$

Nafisa Rehmani

● ONLINE

Expense Summary

Expenses

Expense Report

Profile

Change Password

Logout

Expense

Expense

Date of Expense

15-05-2024

Item

Pizza

Cost of Item

650

Add

dd-expense.php

localhost says

Expense has been added

OK

EXPENSE TRACKER

\$

Nafisa Rehmani

● ONLINE

Expense Summary

Expenses

Expense Report

Profile

Change Password

Logout

Expense

S.NO	Expense Item	Expense Cost	Expense Date	Action
1	Pizza	650	2024-05-15 10:25:30	Delete
2	iPhone	100000	2024-05-15 10:49:41	Delete

References

ChatGPT

GitHub

[Scribd.com](https://www.scribd.com)

Bard.ai

[PhpGurukul](https://www.phpgurukul.com)

[SourceCodster.com](https://sourcecodster.com)

[NevonProjects.com](https://nevonprojects.com)

[Geeksforgeeks.org](https://www.geeksforgeeks.org)

[Web.dev](https://www.web.dev)

getbootstrap.com

[Flaticon.com](https://flaticon.com)

icons.getbootstrap.com

Future Work

- Implement JWT for secure user authentication.
- Add password reset functionality.
- Use HTTPS for secure data transmission.
- Make the design responsive using frameworks like Bootstrap or Material-UI.
- Add a dark mode option.
- Improve UI/UX for forms and navigation.
- Send email/SMS notifications for budget limits.
- Implement in-app notifications for reminders.
- Manage expenses in multiple currencies.
- Integrate currency conversion APIs.
- Offer data backup to cloud services.
- Enable data synchronization across devices.
- Develop native mobile apps using React Native or Flutter.
- Implement push notifications.
- Support multiple languages
- Sync with bank transaction data.

Conclusion

The Expense Tracker app empowers users to manage finances. It offers features like expense recording, budgeting, and data visualization to help users understand their spending habits and make informed financial decisions. Security and user-friendliness are key aspects of the application.

THANK YOU

