WEB TECHNOLOGY

EXPENSE TRACKER PROJECT

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Overview

- Objective
- Technologies
- Architecture
- Codes
- Output
- References
- 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

Backend

PHP

Database

Server

HTML CSS

JavaScript jQuery MySQL

XAMPP

Architecture



- 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



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">
              <img src="https://static.vecteezy.com/system/resources/previews/012/906/644/original/expenses-icon-style-vector.jpg" class="img-responsive" alt="">
          </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>
       <a href="dashboard.php"><em class="fa fa-dashboard">&nbsp;</em> Dashboard</a>
          <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>
              <a class="" href="add-expense.php">
                     <span class="fa fa-arrow-right">&nbsp;</span> Add Expenses
```

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                                  <?php
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                                  session start();
∨ EXPENS... [‡ 📮 ひ 🗇
                                  error reporting(0);
                             3

✓ css

                                  include('includes/dbconnection.php');
                             4
  # styles.css
                                  if(isset($_POST['submit']))
                             5
 > fonts
                             6
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                                       $fname=$ POST['name'];

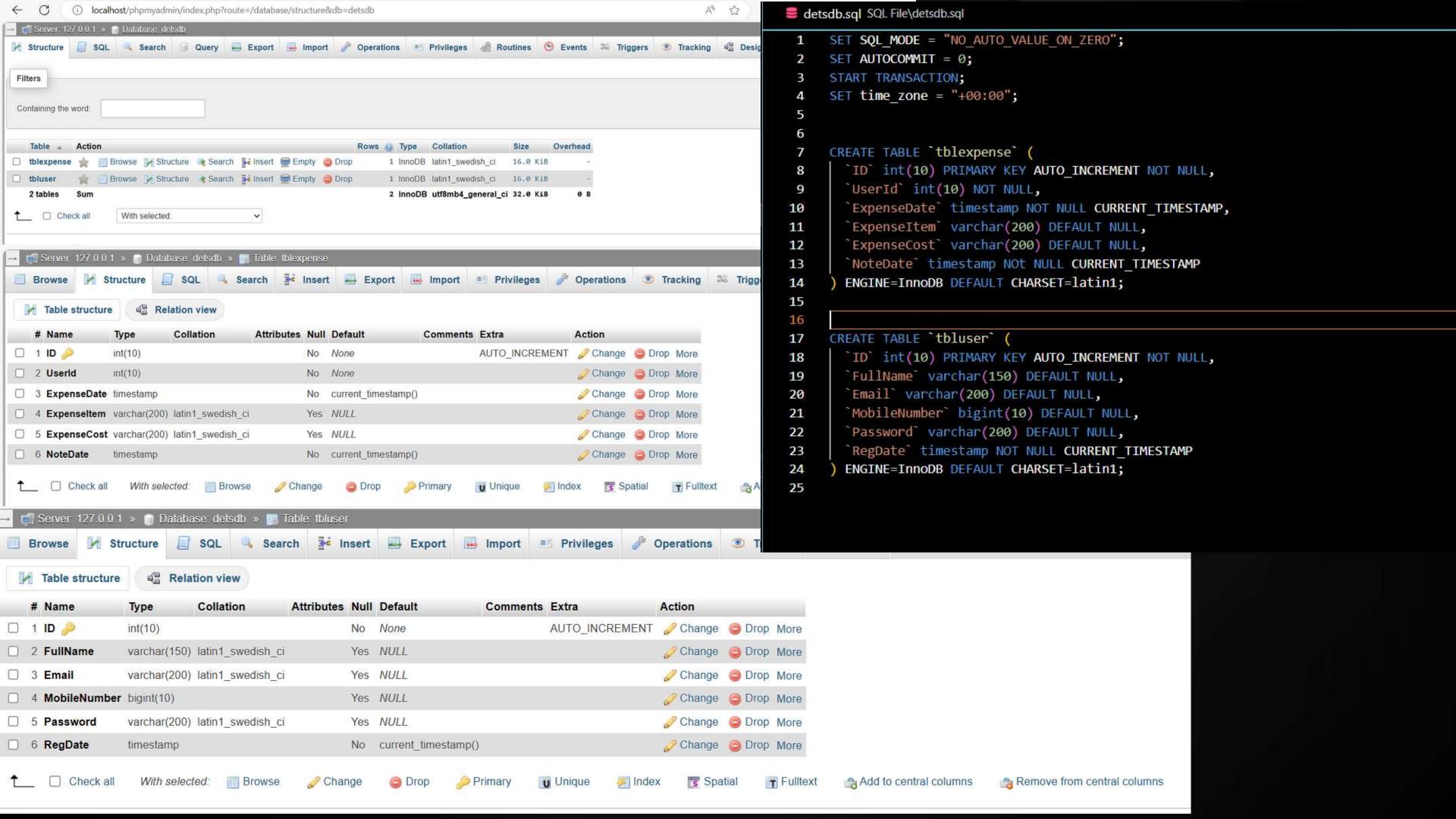
✓ includes

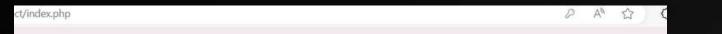
                                       $mobno=$ POST['mobilenumber'];
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  dbconnection.php
                                       $email=$ POST['email'];
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  neader.php
                                       $password=md5($ POST['password']);
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  sidebar.php
                            11
                                       $ret=mysqli query($con, "select Email from tbluser where Email='$email' ");
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                                       $result=mysqli fetch array($ret);
 SQL File
                            14
                                       if($result>0){
 > tables
                                  $msg="This email associated with another account";
 add-expense.php
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                            17
                                       else{
 change-password.php
                                       $query=mysqli query($con, "insert into tbluser(FullName, MobileNumber, Email, Password) value('$fname', '$mobno', '$email', '$password' )");
                            18
 dashboard.php
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                                       if ($query) {
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                                       $msg="You have successfully registered";
 expense-datewise-re...
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 expense-monthwise-r...
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                                     else
                            23
 expense-monthwise-r...
                                         $msg="Something Went Wrong. Please try again";
                            24
 💏 expense-reports-deta...
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                                                                                                                      <form role="form" action="" method="post" id="" name="signup" onsubmit="return checkpass();">
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 expense-reports.php
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                                                                                                         echo $msg;
 💏 expense-yearwise-rep...
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 expense-yearwise-rep...
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                                                                                                                            <input class="form-control" placeholder="Full Name" name="name" type="text" required="true">
 n forgot-password.php
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                                                                                                                            <div class="form-group">
 ndex.php
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 💏 logout.php
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 manage-expense.php
                                                                                                                            <input type="text" class="form-control" id="mobilenumber" name="mobilenumber" placeholder="Mobile Number" maxlength=</p>
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                                                                                                                            </div>
 register.php
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                                                                                                                            <input class="form-control" placeholder="Password" name="password" type="password" value="" required="true">
 m reset-password.php
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                                                                                                                            </div>
                                                                                                                            <div class="form-group">
                                                                                                   76
 💏 user-profile.php
                                                                                                   77
                                                                                                                            <input type="password" class="form-control" id="repeatpassword" name="repeatpassword" placeholder="Repeat Password"</pre>
                                                                                                   78
                                                                                                                            <div class="checkbox"> -
                                                                                                   79
                                                                                                   82
                                                                                                                            </div>

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                                                                                                                            </fieldset>
                                                                                                   84
  expenses-icon.jpg
```

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add-expense.php add-expense.php
            <?php
            session start();
           error reporting(0);
            include('includes/dbconnection.php');
           if (strlen($_SESSION['detsuid']==0)) {
                 header('location:logout.php');
  6
                 } else{
  7
  8
            if(isset($_POST['submit']))
  9
10
                      $userid=$_SESSION['detsuid'];
11
                      $dateexpense=$ POST['dateexpense'];
12
                        $item=$_POST['item'];
13
                       $costitem=$ POST['costitem'];
14
                      $query=mysqli_query($con, "insert into tblexpense(UserId,ExpenseDate,ExpenseItem,ExpenseCost) value('$userid','$dateexpense','$item','$costitem'
15
             if($query){
16
            echo "<script>alert('Expense has been added');</script>";
17
            echo "<script>window.location.href='manage-expense.php'</script>";
            } else {
19
            echo "<script>alert('Something went wrong. Please try again');</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>";</script>"
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                                                                                                                                                                                                                                   <div class="col-md-12">
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                                                                                                                                                                                                                                            <form role="form" method="post" action="">
             <?>
23
                                                                                                                                                                                                                                                      <div class="form-group">
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                                                                                                                                                                                                                                                               <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>
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```

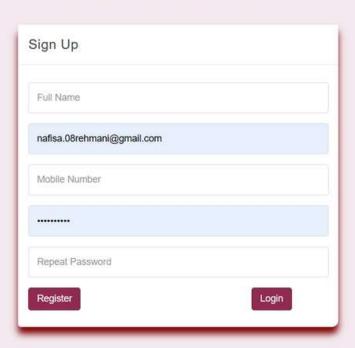




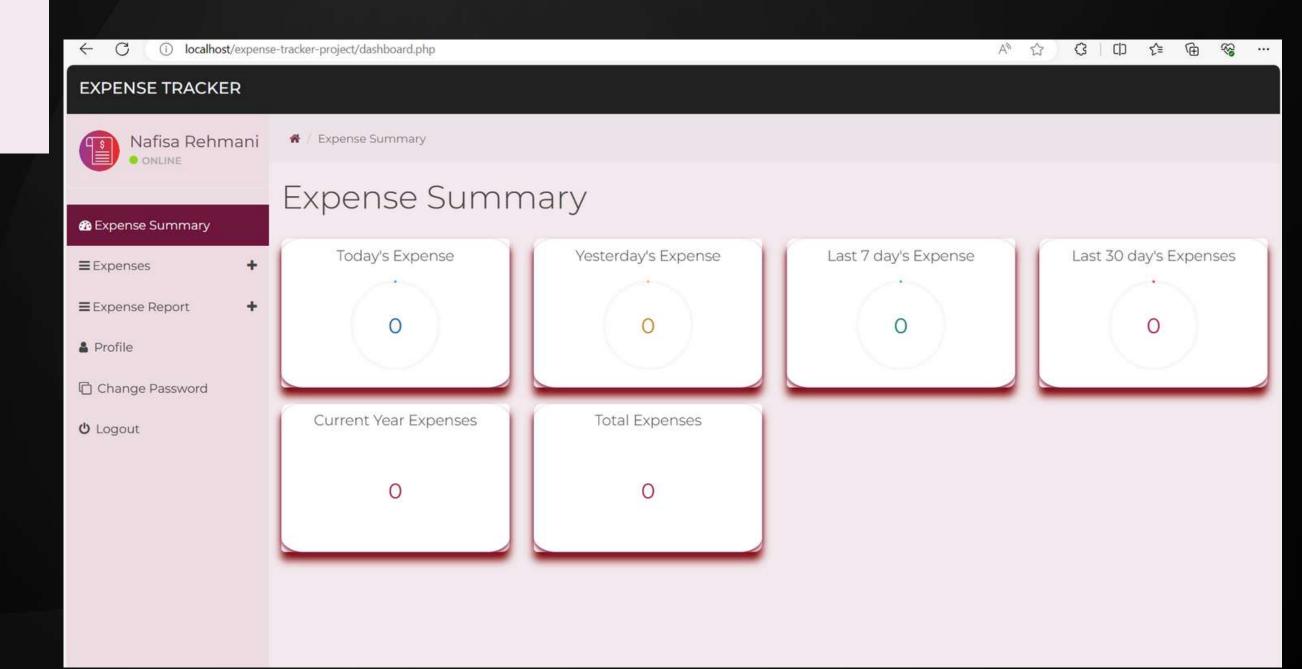
Daily Expense Tracker

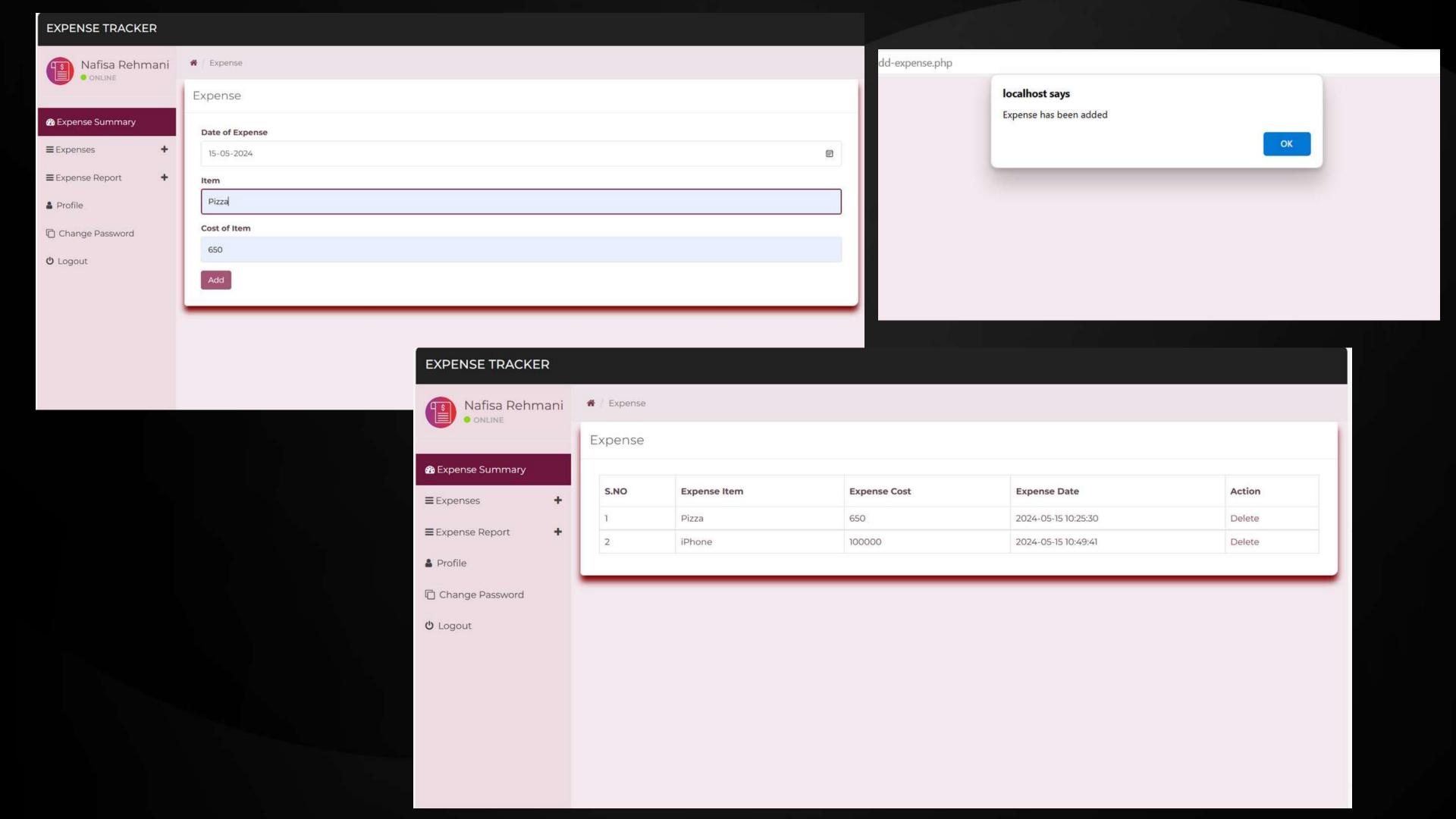


Daily Expense Tracker



OUTPUT







ChatGPT GitHub

Scribd.com

Bard.ai

PhpGurukul

SourceCodster.com

NevonProjects.com

Geeksforgeeks.org

Web.dev

getbootstrap.com

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

