UNIVERSITY OF BARISHAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT PROPOSAL

MESS REGULATOR

CSE-2210 : Web Engineering Lab

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1. Introduction

Managing mess accounts manually is difficult and time-consuming. Monthly calculations, member deposits, expenses, and utility bills often create confusion and mistakes. To solve these problems, we propose a Full Stack Web Application named "Mess Regulator", which will manage all mess-related activities in a digital and organized way.

2. Motivation of the Project

The motivation behind this project comes from real-life mess management problems. Which are :

- ✓ Manual record keeping is messy and error-prone
- ✓ Paper-based systems are not safe and hard to maintain
- ✓ Lack of transparency creates misunderstandings among members
- ✓ Previous month records are difficult to track
- ✓ A simple and centralized system is needed for mess management

This project aims to make mess accounting easy, clear, and transparent for everyone.

3. Objectives of the Project

The main objectives of this project are:

- ✓ To manage monthly mess accounts efficiently
- ✓ To track deposits, expenses, and utility bills
- ✓ To store records month-wise for better organization
- ✓ To allow viewing of current and previous month data
- ✓ To maintain complete information of all mess members

4. Scope of the Project

The scope of the **Mess Regulator** project includes the following:

- ✓ Managing mess members and their details

- ✓ Creating separate records for each month
- ✓ Viewing current and past month accounts
- ✓ Managing member deposits and expenses
- ✓ Tracking bazar and utility costs
- ✓ Displaying mess rules through a dedicated page
- ✓ The system will be web-based and admin-controlled

5. Features of the Project

5.1 Member Management

- ✓ Add new mess members
- ✓ Delete existing members
- ✓ View complete member information

5.2 Monthly Account Management

- ✓ Month-wise database tables
- ✓ View current month accounts
- ✓ Access previous month records

5.3 Financial Management

- ✓ Track member deposits
- ✓ Track daily and monthly expenses
- ✓ Track bazar expenses
- ✓ Automatic total and balance calculation

5.4 Utility Bill Management

- ✓ House rent
- ✓ Electricity bill
- ✓ Water bill
- ✓ WiFi bill

5.5 Mess Rules Page

- ✓ Separate link for mess rules
- ✓ Easy access for all members

6. Requirements of the Project

6.1 Functional Requirements

- ✓ Admin login system
- ✓ Add, update, and delete members
- ✓ Store member information
- ✓ Create and manage month-wise records
- ✓ Add deposits and expenses
- ✓ Manage utility bills
- ✓ View reports for any month
- ✓ Display mess rules
- ✓

6.2 Non-Functional Requirements

- ✓ User-friendly interface
- ✓ Secure data storage
- ✓ Fast system response
- ✓ Reliable performance
- ✓ Browser compatibility

6.3 Software Requirements

- ✓ Operating System: Windows
- ✓ Frontend: HTML, CSS, JavaScript, Bootstrap
- ✓ Backend: PHP
- ✓ Database: MySQL
- ✓ Web Server: Apache (XAMPP)

6.4 Hardware Requirements

- ✓ Computer or Laptop
- ✓ Minimum 4 GB RAM
- ✓ Internet connection

7. System Workflow

1. Admin logs into the system
2. A new month starts and a new table is created
3. Members are added or removed
4. Deposits and expenses are recorded
5. Utility bills are added
6. System calculates total cost and balance
7. Reports for any month can be viewed

8. Advantages of the Project

- ✓ Saves time
- ✓ Reduces calculation errors
- ✓ Ensures transparency
- ✓ Easy access to old records
- ✓ Centralized data management

9. Future Enhancements

- ✓ Mobile application support
- ✓ PDF report generation
- ✓ Individual member dashboards
- ✓ Notification system

10. Conclusion

"Mess Regulator" is a practical and real-life Full Stack web project. It solves common mess management problems and is suitable for a Web Engineering course project as well as real-world use.