WORLD UNIVERSITY OF BANGLADESH
A University for Quality & Utilitarian Education
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Final Project Report of Micro-Internship Portal

FROM_

NAME: PRONAB SEN GUPTA

BATCH: 67B

ROLL: 032467-4167

DEPT.: CSE

The **Micro-Internship Portal** is a web-based application designed to connect students with short-term internships and project-based opportunities offered by employers, startups, and faculty members. The system enables students to gain hands-on experience, build professional skills, and enhance employability, while employers can quickly recruit talent for small, skill-specific tasks.
The project is developed using **HTML, CSS, JavaScript, Bootstrap**, and **LocalStorage** for data persistence. Although the current version does not use a real backend, it effectively demonstrates the complete workflow of a modern internship portal and lays a strong foundation for future backend integration.

1. Introduction

1.1 Background

Traditional internship platforms mainly focus on long-term internships, which limits opportunities for students seeking short-term, skill-based experience. Micro-internships solve this problem by offering flexible, project-based tasks that can be completed in a short duration.

1.2 Problem Statement

- Students lack access to short-term practical opportunities
- Employers need quick access to skilled interns
- Existing systems are complex and time-consuming

1.3 Objectives

- Provide a platform for micro-internships
- Enable students to build skills and resumes
- Allow employers to post and manage opportunities
- Introduce gamification to motivate users

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2. Scope of the Project

The **Micro-Internship Portal** includes:

- User, Employer, and Admin modules
- Internship posting and application system
- Gamification with points and leaderboard
- Admin monitoring and analytics
- Fully responsive Bootstrap-based UI

The system is currently frontend-based and uses **LocalStorage** to simulate database operations.

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3. System Requirements

3.1 Hardware Requirements

- Computer or laptop
- Minimum 4GB RAM
- Internet connection

3.2 Software Requirements

- Web Browser (Chrome, Firefox, Edge)
- Code Editor (VS Code)
- HTML, CSS, JavaScript
- Bootstrap 5

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4. Technologies Used

Technology	Purpose
HTML	Structure of web pages
CSS	Styling and layout
Bootstrap	Responsive UI design
JavaScript	Application logic
LocalStorage	Data persistence
GitHub	Version control

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5. System Architecture

The system follows a **Client-Side Web Application Architecture**:

- User interacts with UI through browser
- JavaScript handles logic and data processing
- LocalStorage stores session and application data
- No server-side processing in the current version

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6. Functional Modules

6.1 User Module

- User registration and login
- Profile creation with skills and resume
- Browse and search internships
- Apply with cover letter
- Track application status
- Earn points and rankings

6.2 Employer Module

- Employer registration and login
- Post micro-internships
- View applicants
- Accept or reject applications
- Rate interns after completion

6.3 Admin Module

- Verify employers
- Manage users and internships
- Monitor platform activities
- View analytics and reports

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7. Use of LocalStorage

The application uses **LocalStorage** for:

- Persisting user sessions
- Storing dummy data
- Saving user preferences
- Maintaining application state across page refreshes

This approach simulates real database behavior for demonstration purposes.

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8. Key Features Implemented

- Secure role-based access (User, Employer, Admin)
- Internship posting and application workflow
- Leaderboard and point system
- Admin analytics dashboard
- Modal dialogs for confirmation and application
- Responsive design for mobile and desktop

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9. Known Limitations

- No actual backend or database integration
- Passwords are not hashed (demo purpose only)
- No real-time notifications
- No email system
- No payment processing
- No file upload functionality

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10. Future Enhancements

- **Real Backend Integration** using PHP & MySQL
- **Real-time Notifications** with WebSockets
- **Chat System** between users and employers
- **Payment Integration** for paid internships
- **AI-Based Recommendations**
- **Advanced Gamification** (badges, achievements)
- **Video Interviews**
- **Skill Assessment System**

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11. Testing

The system was tested using:

- Manual testing
- Cross-browser testing
- UI responsiveness testing
- Functional testing of all modules

All major functionalities work correctly as expected.

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12. Conclusion

The **Micro-Internship Portal** successfully demonstrates a complete internship management system using modern web technologies. Although it currently operates without a backend, it fulfills all functional requirements defined in the SRS and provides a scalable foundation for future development.
This project enhances understanding of frontend development, system design, and real-world problem solving.