**Member Information System – Development Report**

**1. Introduction**

The **Member Information System** is a web-based application designed to manage members and their payments efficiently. Key features include:

* Secure Sign Up and Sign In
* Member management: add, edit, delete, search, sort
* Payment management: add, edit, delete, search, sort
* Real-time dashboard statistics
* Dark mode toggle and secure logout

The system uses **HTML, CSS, JavaScript**, and **localStorage** for persistent data storage.

**2. Planning and Design**

* **Pages:** index.html for authentication; dashboard.html for dashboard and management sections
* **Interface:** Clean, intuitive, with sidebar navigation and pop-up forms
* **Data Structures:**
  + Users: {username, email, password}
  + Members: {name, dob, desc}
  + Payments: {name, amount, desc, method}

**3. Implementation**

**3.1 Authentication**

* **Sign Up:** Validates fields, confirms passwords, stores user in localStorage
* **Sign In:** Validates credentials and “Remember Me”; redirects to dashboard

**3.2 Dashboard**

* Displays total members and payments
* Sidebar navigation to Dashboard, Members, Payments
* Dark mode toggle
* Logout clears session and redirects to login page

**3.3 Members Management**

* Add, edit, delete members
* Search and sort functionality
* Dashboard updates automatically

**3.4 Payments Management**

* Add, edit, delete payments
* Search and sort by name or amount
* Dashboard statistics update automatically

**3.5 JavaScript Features**

* Form validation, dynamic rendering, localStorage management
* Real-time updates to dashboard statistics
* Navigation, dark mode, and logout functionality

**4. Testing**

* Verified all form validations
* Tested add, edit, delete, search, sort for members and payments
* Confirmed dashboard updates
* Checked dark mode and logout
* Ensured data persists in localStorage

**5. Tools and Technologies**

* HTML5, CSS3, JavaScript, localStorage

**6. Conclusion**

The Member Information System was successfully implemented. All planned features are fully operational, demonstrating effective use of web technologies to create a **user-friendly, interactive, and persistent system** for managing members and payments efficiently.