



Adama
Science and Technology University
CSEC-ASTU



Development Division
Division Entrance Project Requirement

2016 E.C / 2023 G.C

Club Members Management System Project

Requirements

Introduction

This document outlines the requirements and expectations for the development of the Club Members Management System. This system is intended to streamline the management of club activities and member data. Participants can choose to develop the system as a web app, mobile app, desktop application, or a Telegram bot.

1. Project Overview:

- **Purpose:** Develop a system for managing club members, events, and related data.
- **Scope:** The system should include features like member database management, event management, user authentication, a member's area, role-based access, and a reporting dashboard.

2. Technical Requirements:

→ Platform Choice:

- ◆ Web Application
- ◆ Mobile Application
- ◆ Desktop Application
- ◆ Telegram Bot (Suggested Technologies: Python, Node.js)

→ Version Control:

- ◆ Mandatory use of Git (GitHub/GitLab/Bitbucket).
- ◆ Regular commits with clear messages.

→ Database Management:

- ◆ SQL (e.g., MySQL, PostgreSQL) or NoSQL (e.g. MongoDB) databases.

→ Security:

- ◆ Secure user authentication.
- ◆ Data encryption and validation.

→ Hosting (for Web and Bot Applications):

- ◆ NB: this is a plus point, it's not mandatory.
- ◆ Deployment on a cloud platform (e.g., AWS, Heroku, Firebase).

3. Functional Requirements:

- **Members Database:** Add, edit, remove, and list functionalities.
- **Event Management:** Tools to manage club events.
- **Reporting Dashboard:** Generate reports on membership statistics.
- **User Authentication:** Secure login system for different user roles.
- **Members Area:** Personalized area for members to view and manage their information.
- **Role-Based Access Control:** Different access levels for administrators and members.
- **Additional Feature (Optional):** Implementation of a password reset and recovery system.

4. Evaluation Criteria:

- Functionality as per requirements.
- Effective use of Git for version control.
- User interface and overall user experience.
- Application security and data handling.
- Code quality and documentation.
- Online accessibility of the final project (for web and bot applications).

5. Project Timeline:

- Suggested Duration: **1 week**.
- Final submission deadline: **November 27 – 2023**.

6. Submission Guidelines:

- Provide access to the Git repository containing the project.
- Include a README file with detailed instructions on how to set up and run the project.
- For web and bot applications, provide the URL to the hosted application.

7. Contact Information:

- For any queries or assistance, reach out to Development Division Head:
<https://t.me/BiniTech>.