**Chapter VI**

INTRODUCTION

The Asian Development Foundation College (ADFC) Alumni Tracking System is a modern solution designed to streamline the management of alumni data and foster meaningful engagement with graduates. This system provides a centralized platform for tracking alumni achievements, maintaining updated records, and facilitating effective communication. By integrating features such as employment tracking, event promotion, and career development resources, the system aims to strengthen the bond between ADFC and its alumni while showcasing the institution’s impact and success through its graduates.

**Hardware Requirements**

The hardware requirements define the physical components needed to run the system efficiently.

* **Processor**: Intel Core i3 or equivalent (2.0 GHz or higher)  
  A processor is the brain of the computer that executes instructions and processes data. A Core i3 or equivalent ensures smooth performance for the system.
* **RAM**: Minimum 4 GB  
  RAM (Random Access Memory) temporarily stores data that your computer actively uses, allowing for quicker processing. At least 4 GB ensures efficient multitasking.

**Software Requirements**

The software requirements specify the applications and tools needed for developing, running, and accessing the system.

* **IDE (Visual Studio Code)**  
  An Integrated Development Environment (IDE) like Visual Studio Code provides tools for coding, debugging, and testing the system during development.
* **XAMPP (Server)**  
  XAMPP is a local web server that hosts the system during development. It includes Apache, MySQL, PHP, and other tools for creating and testing web applications.
* **Browser (Google Chrome)**  
  A web browser like Google Chrome is used to access the system's interface, test functionalities, and ensure compatibility across platforms

**Client Hardware and Software Requirements**

**Hardware**

* **Operating System**: Windows 10 or higher  
  A reliable platform to run web browsers and support system functionalities.
* **Web Browser**: Google Chrome (latest version) or other compatible browsers  
  Browsers that support modern web technologies to ensure smooth access to the alumni tracking system.
* **Device**: Laptop or smartphone  
  Enables flexible access to the system from various platforms.

**Software**

* **Operating System**: Windows 10 or or higher  
  Reliable operating systems to run browsers and access the system.
* **Web Browser**: Google Chrome (latest version), or other Browsers that support modern web technologies for accessing the alumni tracking system.

#### Summary

This study addressed the need for a comprehensive alumni tracking system at Asian Development Foundation College (ADFC) to overcome the limitations of manual and fragmented alumni management practices. The existing methods, characterized by physical records and sporadic updates, have proven insufficient in maintaining accurate data and fostering meaningful engagement with alumni.

The proposed system offers a centralized platform for managing alumni information, facilitating communication, and leveraging the achievements of graduates. It integrates features such as displaying alumni and batch details, tracking current employment, hosting job hubs, and promoting events. By implementing this system, ADFC aims to enhance its ability to connect with its alumni, improve operational efficiency, and strengthen its institutional network.

**Recommendation**

To effectively address the challenges in alumni management identified in this study, it is recommended that Asian Development Foundation College (ADFC) implement the proposed alumni tracking system. This system will provide a structured and efficient approach to managing alumni data and fostering engagement. Unlike the existing methods, the new system will centralize alumni information, enabling the college to track graduate achievements, support career development through job hubs, and promote events seamlessly. By adopting this solution, ADFC can not only enhance communication with its alumni but also build a more robust and dynamic alumni network, supporting both institutional growth and alumni success.

#### System Sample Interface



The **System Sample Interface of the homepage of the alumni tracking system** highlights a user-friendly and visually appealing design that ensures smooth navigation. The homepage includes the following key features:

* Homepage: A welcoming dashboard displaying quick summaries and navigation options.
* Batch: Allows users to browse alumni categorized by graduation year or batch.
* Job Hub: Features job postings and career opportunities for alumni.
* Events: Showcases upcoming events and activities, enabling alumni participation.
* Faculty: Provides information about current faculty members and their roles.
* Chat Hub: A communication platform where alumni and staff can connect and interact.