**Auto Attendance Transfer WinForms Application Documentation**

**1. Introduction**

The Auto Attendance Transfer WinForms application is designed to facilitate the seamless transfer of attendance records, manage location details, clean up data, and generate log reports. The application includes various forms that allow users to interact with the system efficiently.

**2. Features Overview**

**a. Home Page**

* Serves as the main dashboard for navigating different features.
* Provides access to log reports, data cleanup, location management, and settings.

**b. Log Report Form**

* Generates reports for attendance logs based on selected criteria.
* Allows filtering logs by location and date range.
* Supports the selection of all locations or specific locations.
* Provides an option to filter records with employee codes containing junk characters.

**c. Data Cleanup Window**

* Allows users to delete old log records based on a specified date range.
* Ensures efficient data management by preventing log accumulation.

**d. Location Master Form**

* Enables users to add, edit, and delete location details.
* Stores location data in an Access database (user\_details.MDB).

**e. Settings Form**

* Configures application settings such as database connection parameters and default filters.

**f. Machine Type Form**

* Manages machine types used for attendance tracking.

**3. System Requirements**

* **Operating System:** Windows 10/11
* **Framework:** .NET Framework 4.8 or later
* **Database:** Microsoft Access (user\_details.MDB)
* **IDE:** Visual Studio

**4. Database Schema**

Microsoft Access is used for database table handling and maintaining data for the records of the windows app.

**5. Application Flow**

1. **User logs into the application** and navigates to the desired section from the home page.
2. **Location Management:** Users can add, edit, or delete locations in the Location Master form.
3. **Data Cleanup:** Users can delete logs older than a selected date range via the DataCleanupWindow.
4. **Log Reports:** Users can generate attendance reports based on filters in the LogReportForm.
5. **Settings Configuration:** Users can modify system settings via the Settings form.
6. **File Transfer Execution:** The application processes and transfers attendance records.

**6. Error Handling and Logging**

* All errors encountered during execution are logged in a text file to facilitate debugging.
* The log file is regularly cleaned up to prevent excessive storage usage.

**7. Future Enhancements**

* Implementing database encryption for secure data storage.
* Adding export functionality for log reports (CSV, Excel, PDF).
* Integrating an API for real-time attendance data retrieval.