BioTime Integration App

Overview

The BioTime Integration App seamlessly connects BioTime server functionalities with ERPNext, facilitating the synchronization of employee logs, check-ins, and device data between the two systems.

Features

1. Automatic Token Retrieval
- **Effortless Authentication:** The app streamlines the process of obtaining authentication tokens from the BioTime server, eliminating manual token retrieval efforts.
- **Secure Storage:** Tokens retrieved are securely stored within ERPNext, ensuring confidentiality and integrity during API calls.
- **Token Expiry Handling:** The app handles token expiration gracefully by automatically refreshing tokens when needed, ensuring uninterrupted data synchronization.

2. Data Synchronization
- **Real-time Data Updates:** The app enables real-time synchronization of employee logs and check-ins between BioTime and ERPNext, ensuring up-to-date data across both systems.
- **Customizable Synchronization:** Users can customize synchronization intervals and data parameters to meet specific business requirements, enhancing flexibility and efficiency.
- **Batch Processing:** Data fetching and processing occur in batches, optimizing performance and reducing server load for seamless integration.

3. Employee ID Management
- **Consistent Data Mapping:** The app maintains consistency by updating the employee_id_on_system field in tabBioTime Device Log based on corresponding employee data in ERPNext.
- **Error Handling:** Robust error handling mechanisms are in place to manage discrepancies and ensure accurate data mapping, minimizing data integrity issues.

4. Monitoring and Reporting
- **Sync Logs:** Comprehensive sync logs in ERPNext track all synchronization activities, including successful syncs, errors, and timestamps, enabling thorough monitoring and auditing.

BioTime Settings Setup in ERPNext
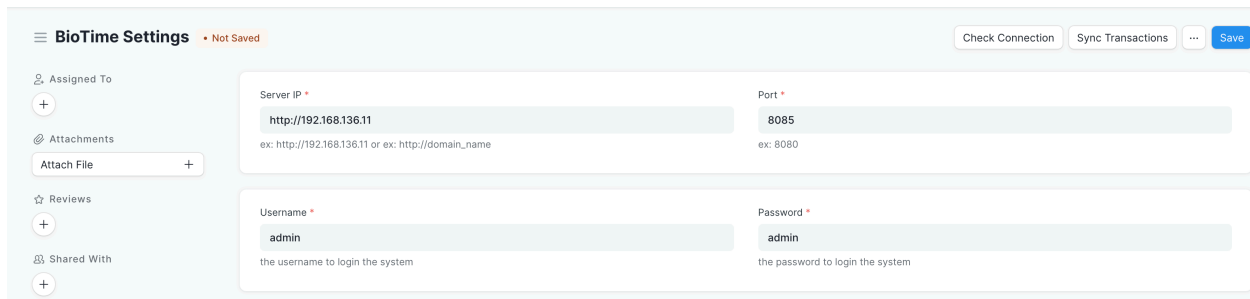
1. **Access BioTime Settings:**
   o Navigate to the BioTime Settings section within your ERPNext instance.

2. **Enter BioTime Server Details:**
   o Input the following BioTime server information:
      ▪ IP address: [Your BioTime server's IP address]
      ▪ Port number: [BioTime server's port number]
      ▪ Username: [Your BioTime server username]
      ▪ Password: [Your BioTime server password]

3. **Save Settings:**
   o After entering the required details, save the settings to finalize the BioTime integration setup in ERPNext.

BioTime Settings

Monitoring the synchronization process and checking the status after syncing on the BioTime Device Log in ERPNext involves following these steps:

1. **Access BioTime Device Log:**
   o Navigate to the BioTime Device Log section within ERPNext. This can usually be found under the BioTime module or a related section where device logs are managed.

2. **View Synced Data:**
   o Look for the synced data entries in the BioTime Device Log. These entries should reflect the employee logs, check-ins, or device data that were synchronized from the BioTime server.

3. **Check Timestamps:**
   o Verify the timestamps associated with the synced data entries to ensure they correspond to the latest synchronization process. This helps in confirming the data's freshness and accuracy.

4. **Review Employee IDs:**
   o Verify that the employee_id_on_system field in the BioTime Device Log is updated correctly based on the employee data from ERPNext. This ensures proper mapping and integration between the systems.

5. **Troubleshoot Errors (If Any):**
   o If there are any errors or discrepancies identified during monitoring, refer to the Sync Logs or error logs within ERPNext for troubleshooting. Address any issues promptly to maintain data accuracy and system reliability.

BioTime Device Log

Sync Logs

After the synchronization process:

if an employee is linked with a device log, the system will automatically add an Employee Checkin document with the log data in ERPNext. This ensures that the employee's check-in information is accurately recorded and associated with the corresponding device log entry. Here's how this process works:

1. Synced Employee Data:
   o After the synchronization process between BioTime and ERPNext, if an employee's data (such as logs or check-ins) is updated or added in the BioTime Device Log, ERPNext captures this information.

2. Automatic Employee Checkin Creation:
   o If the synced data includes a check-in event for an employee linked to a device log, ERPNext automatically generates an Employee Checkin document.

Employee Checkin