

API Documentation: Account Closure Batch Processing

1. Overview

This API handles the batch processing of user account closures, including scheduling and error handling. The main objective is to initiate and monitor the closure of multiple user accounts, providing feedback on successful and failed operations.

2. API Endpoint

URL: direct/close-accounts

Method: POST

Authentication: Required (via access token)

Security: Bearer Token

Request Body:

A JSON array of user UUIDs to be processed:

```
{  
  "userIds": ["uuid1", "uuid2", "uuid3"]  
}
```

3. Response

Success (200 Accepted):

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```
{  
  "status": "ACCEPTED",  
  "message": "Your request to close accounts has been received and will be processed shortly"  
}
```

Error (400 Bad Request):

```
{  
  "status": "FAILED",  
  "message": "The operation failed for all provided users",  
  "errors": [  
    {  
      "userId": "uuid1",  
      "message": "User not found"  
    },  
  ],  
}
```

```
{
  "userId": "uuid2",
  "message": "User already closed"
}
]
```

4. Error Handling

- **User Not Found:** The API returns an error when a user ID from the request list does not exist in the database.
 - **User Already Closed:** An error is returned if the user's account is already marked as closed.
 - **User Not Enrolled:** Returns an error if the user is not enrolled.
 - **Unauthorized Access:** An error is returned if the user performing the operation is not authorized to close the specified account.
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5. Batch Processing

Account closure is processed in batches through a scheduled task. The task runs every 5 seconds to close a batch of up to 10 accounts.

Batch Processing Logic:

1. Retrieve up to 10 pending or failed account closures.
2. Attempt to close the accounts and update their status.
3. Log successes and failures, and record errors in the database.
4. Notify via Slack on failure.

Error Handling During Batch Processing:

- If an exception is thrown during processing (e.g., `UserUnenrollmentException`, `VS3UnavailableException`), it will be logged and the error message stored.
 - Unexpected exceptions are also caught and logged, with a retry mechanism in place for up to 3 attempts.
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6. Scheduling Details

The batch closure process is scheduled to run at fixed intervals (every 5 seconds) to ensure timely processing of pending tasks.