# PD Users Import and CSV Processing - Documentation

## Overview

This document explains the PD\_Users\_Main class and the associated HTML/PHP form that allow network administrators to upload and import users into a WordPress Multisite environment via a CSV file. The system supports both immediate processing and batch-based creation using WordPress cron jobs for larger files.

## Key Features

* Upload and import users from a CSV file.
* Automatically assign users to multiple sites and roles.
* Support for Super Admin creation across all network sites.
* Background processing via WordPress cron job for large files.
* Progress tracking and detailed logging.

## Admin UI (HTML/PHP Form)

The admin interface is available in the WordPress Network Admin area. It allows uploading a CSV file of users, displays progress, and shows success or error messages dynamically. Bootstrap styling ensures a responsive design.

* Bootstrap-based responsive layout.
* Conditional alerts for various upload statuses (success, exists, long\_file).
* Secure upload handling with nonce verification.
* Progress tracking for total vs. created users.

## Class: PD\_Users\_Main

This PHP class is responsible for handling the user import logic, scheduling, file upload, and cron-based background processing.

### \_\_construct()

Registers WordPress hooks for:  
- Adding admin menu items.  
- Handling file upload POST requests.  
- Scheduling and processing user import cron jobs.

### pd\_register\_import\_users\_settings()

Registers a menu page under Network Admin > Users to manage CSV user import.

### pd\_register\_import\_users\_settings\_page()

Loads the main admin page template `pd-users-settings.php` containing the upload form and progress UI.

### process\_csv\_file()

Main function to read, validate, and process CSV uploads. Handles both small (immediate) and large (cron-based) files.

* Verifies nonce and security checks.
* Uploads and moves CSV files to `/uploads/csv\_uploads/`.
* Iterates through the CSV, creating or updating users.
* Tracks created users and progress in WordPress options.
* Schedules additional cron jobs if needed.

### create\_user\_from\_csv($user\_data)

Creates or updates a user record using data parsed from the CSV. Handles Super Admin assignment across all network sites and regular user assignment per provided site IDs and roles.

### schedule\_users\_csv\_creation()

Schedules or stops a WordPress cron event (`process\_users\_csv\_file\_cron\_event`) based on user creation progress. Ensures background jobs only run while necessary.

### upload\_user\_csv\_file()

Validates and uploads the provided CSV file. Ensures correct format and moves it to a safe directory for later processing. If the file has more than 10 rows, it triggers deferred cron processing.

### pd\_users\_log($msg)

Handles logging of events and errors into a timestamped text log (`users-log.txt`) stored in the plugin directory. Useful for debugging and monitoring user creation progress.

## Security and Performance Notes

* Nonce validation prevents CSRF and unauthorized uploads.
* Large files are handled asynchronously using cron jobs to avoid timeouts.
* Logging ensures traceability and debugging.
* Duplicate users are prevented via pre-checks using `username\_exists()` and `email\_exists()`.

## Summary

The PD\_Users\_Main class provides a scalable, secure, and automated solution for importing users from CSV files into a WordPress Multisite environment. It offers detailed logging, real-time status updates, and efficient background processing.