

## User Guide for Flask-Based Data Processing App

Welcome to the user guide for the ERGO data processor application. This guide will walk you through the features and usage of the application, ensuring you can make the most of its capabilities.

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### Overview

This application provides a streamlined process for checking ERGO result sheets, processing them to create the ERGO database format, and post-processing the converted sheets to check for duplicate entries. It is designed with three main tabs (Preprocess, Process, Postprocess), which are decoupled, meaning you can use them independently in any order based on your requirements.

The application also includes features for managing uploaded files and provides real-time updates through a web interface.

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### Usage Instructions

#### General Workflow

##### 1. Preprocessing Tab:

- Upload your source excel file which is your ERGO result sheet.
- The application validates the file and checks for any structural or content-related errors:
  - Ensures the result sheet conforms to the expected OEP/AEP type.
  - Validates that the peril type in line 3 matches the perils listed in row 6 in the result sheet.
  - Verifies correct alignment between rows 23 and 30 for original/adjusted type.
  - Ensures modelling IDs are consistent in rows 24 and 29.
  - Confirms that Year to be processed in rows 9 and 31 align column-wise.
- Errors, if any, will be displayed for your review.

##### 2. Processing Tab:

- Upload your source file and specify the year for processing.
- The application processes the ERGO result sheet into the ERGO database format.
- A downloadable processed file is generated upon completion.

### 3. Postprocessing Tab:

- Upload a processed file.
- The application checks for duplicate records and reports them:
  - Business Unit, Peril, Portfolio, original/adjusted, Modelling\_ID, Measure, Return Period, Value, NatCat Model, Model Version
- Details about the duplicates are displayed for review.

### Decoupled Tabs

The three tabs (Preprocess, Process, Postprocess) are **independent**. You can use them in any order or skip steps based on your needs. For instance:

- If you only need to check duplicates, you can directly use the **Postprocessing Tab**.
  - If you are confident about your data's structure, you can skip the **Preprocessing Tab** and start with **Processing**.
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### Additional Features

- **Help Tab:**
    - Provides access to a user guide (available in the /static/docs/ directory).
  - **Clear Cache:**
    - Clears old files from the upload and output directories.
    - Accessible via the **Clear Cache** button.
  - **End Process:**
    - Terminates ongoing operations.
    - Ensures no lingering tasks interfere with new requests.
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### Error Handling and Notifications

- Real-time updates are displayed with colored messages:
  - **Green:** Success
  - **Red:** Errors
  - **Orange:** Warnings
  - **Blue:** Informational updates
- All updates include timestamps for tracking progress.

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## Getting Started

1. Launch the application.
2. Access the web interface in your browser.
3. Use the tabs as per your requirements.
4. Download and review the processed outputs.

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For any additional help or troubleshooting, refer to the user guide available under the Help tab or contact:

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