# AppTheme Scanner and Fixer for Flutter/Dart Files

This script scans your Flutter project directory for `.dart` files to check if `import 'package:kdp\_creator\_suite/theme/app\_theme.dart';` is defined. It categorizes files, performs syntax validation, and offers an option to automatically fix the 'not defined' files.

## Prerequisites

\* \*\*Python 3:\*\* Ensure Python 3 is installed on your Windows 10 system.

\* \*\*Flutter SDK:\*\* The Flutter SDK must be installed and configured correctly, with the `flutter` command available in your system's PATH.

\* \*\*Flutter Project Structure:\*\* The script expects the following directory structure:

```

mobile-app/

├── lib/

│ └── theme/

│ └── app\_theme.dart

├── scripts/

│ └── scan\_apptheme.py (This script will be located here)

└── ... (other project files)

```

## How to Use

1. \*\*Save the Script:\*\* Save the provided Python code as `scan\_apptheme.py` into the `mobile-app/scripts/` directory of your Flutter project.

2. \*\*Open Command Prompt/PowerShell:\*\* Navigate to the `mobile-app/scripts/` directory.

```bash

cd path\to\your\flutter\_project\mobile-app\scripts

```

3. \*\*Run the Script:\*\* Execute the script using Python:

```bash

python scan\_apptheme.py

```

\* \*\*Non-Interactive Mode:\*\* To skip all prompts and automatically fix files, use the `--yes` flag:

```bash

python scan\_apptheme.py --yes

```

## Script Functionality

Upon execution, the script will perform the following steps:

1. \*\*Initial Scan and Categorization:\*\*

\* Scans all `.dart` files in the project (excluding `app\_theme.dart`).

\* Creates a list of files that are \*\*already defined\*\* (have the import) and \*\*not defined\*\* (missing the import).

\* Prints the number of files in each list.

2. \*\*`app\_theme.dart` Currency Check and Fixing:\*\*

\* Checks the syntax of `lib/theme/app\_theme.dart` using `flutter analyze`.

\* If the file is not defined, it asks if you would like to fix the files in the 'not defined' list.

\* If `yes` is chosen, it inserts the correct import statement into each file and adds them to the \*\*defined fixed\*\* list. If `no` is chosen, it creates a file listing the 'not defined' files.

3. \*\*Full Syntax Validation:\*\*

\* Checks the syntax of \*all\* `.dart` files (including those that were already defined) to ensure they are using the correct syntax. It will report any non-trivial syntax errors.

4. \*\*Second Check and Comparison:\*\*

\* After the fixing attempt, it re-scans the entire directory to create a list of \*\*files still not defined\*\*.

\* It then compares this list with the initial 'not defined' list and reports the number of files that were initially 'not defined' and \*\*remain unfixed\*\* after the attempt.

## Important Notes

\* \*\*Backup Your Project:\*\* Always back up your project before running any script that modifies files.

\* \*\*Package Name:\*\* The script is hardcoded with `kdp\_creator\_suite` as the package name. If your project has a different package name, you must edit the `PACKAGE\_NAME` variable in the `scan\_apptheme.py` file.

\* \*\*Import Path:\*\* The script assumes the import path is `package:kdp\_creator\_suite/theme/app\_theme.dart`. If your project's structure differs, you must update the `APP\_THEME\_RELATIVE\_PATH` variable.