```
In [1]: import pandas as pd
 import os
 # Base directory
 base dir = '/Users/Dell/Documents/TASK1/WikiArt'
 wikiart_dir = os.path.join(base_dir, 'wikiart')
 # Load metadata
 metadata = pd.read csv(os.path.join(base dir, 'artist train.csv'), header=None)
 metadata.columns = ['file_info', 'label']
 print("First few rows of metadata:")
 print(metadata.head())
 # Parse file info
 metadata[['sTyle', 'artist_image']] = metadata['file_info'].str.split('/', n=1, expand=True)
 metadata[['artist', 'image_name']] = metadata['artist_image'].str.split('_', n=1, expand=True)
 # Generate correct image paths (flat structure: <style>/<artist> <image name>)
 metadata['image_path'] = metadata.apply(
     lambda row: os.path.join(wikiart dir, row['style'], f"{row['artist']} {row['image name']}"),
     axis=1
 # Debug: Show sample paths
 print("Sample image paths:")
 print(metadata['image path'].head())
 # Filter valid paths
 valid rows = []
     _, row in metadata.iterrows():
     if os.path.exists(row['image_path']):
         valid_rows.append(row)
     else:
         print(f"Missing: {row['image_path']}")
 if not valid rows:
     raise FileNotFoundError("No valid images found. Check wikiart folder structure and ensure images match artis
 labels = pd.DataFrame(valid rows)[['image path', 'label']]
 labels.to_csv(os.path.join(base_dir, 'labels.csv'), index=False)
 print(f"Found {len(valid_rows)} valid images.")
 print("labels.csv created successfully!")
 print(labels.head())
First few rows of metadata:
                                           file info label
0 Realism/vincent-van-gogh pine-trees-in-the-fen...
1 Baroque/rembrandt the-angel-appearing-to-the-s...
2 Post_Impressionism/paul-cezanne_portrait-of-th...
                                                         16
3 Impressionism/pierre-auguste-renoir young-girl...
                                                         17
        Romanticism/ivan-aivazovsky_morning-1851.jpg
Sample image paths:
0
    /Users/Dell/Documents/TASK1/WikiArt/wikiart/Re...
     /Users/Dell/Documents/TASK1/WikiArt/wikiart/Ba...
     /Users/Dell/Documents/TASK1/WikiArt/wikiart/Po...
     /Users/Dell/Documents/TASK1/WikiArt/wikiart/Im...
    /Users/Dell/Documents/TASK1/WikiArt/wikiart/Ro...
4
Name: image_path, dtype: object
Found 13346 valid images.
labels.csv created successfully!
                                          image_path label
0 /Users/Dell/Documents/TASK1/WikiArt/wikiart/Re...
                                                         22
1 /Users/Dell/Documents/TASK1/WikiArt/wikiart/Ba...
                                                         20
2 /Users/Dell/Documents/TASK1/WikiArt/wikiart/Po...
                                                         16
3 /Users/Dell/Documents/TASK1/WikiArt/wikiart/Im...
                                                         17
4 /Users/Dell/Documents/TASK1/WikiArt/wikiart/Ro...
                                                          9
```