INTERACTIVE SINGLE-CELL UMAP VIEWER WITH SHINY FOR PYTHON

Overview:

This application permits the user to load .zip files containing .h5ad files including Cell types and other attributes and creates an UMAP plot.

Features:

- Unzips the .zip file uploaded by the user.
- Processes the data.
- Renders the plot created using scanpy.

Requirements:

- 1. Python 3x
- 2. Libraries:

```
from
           import
import
import
import
import
import
import
import
t0start =
               .time()
import
import
import
import
import
import
  l.rcParams['figure.dpi'] = 70
import
                            import
from
             import
from
                 import
import
from
               import plot
               import cluster
               import filter
               import unzip_file
import
```

Usage:

1. Copy the repository:

https://github.com/serayyucetin/shiny.git

2. Library installation:

By using the code "pip install -r requirement.txt" make sure you install the libraries. Otherwise the app is not going to work.

3. Run the App:

Run the codes and click on the Run Shiny App button.

Then add your zip file. The process can be observed on the terminal while you wait for the clustering and other operations to be concluded.

4. Preview(Before-After):

