Wikipedia Article Recommendation User Manual

To use our program Wikipedia Article Recommendation, run ArticleRecommender.java. Refer to Figure 1 for how the program should look upon running ArticleRecommender.java (may look slightly different depending on IDE).
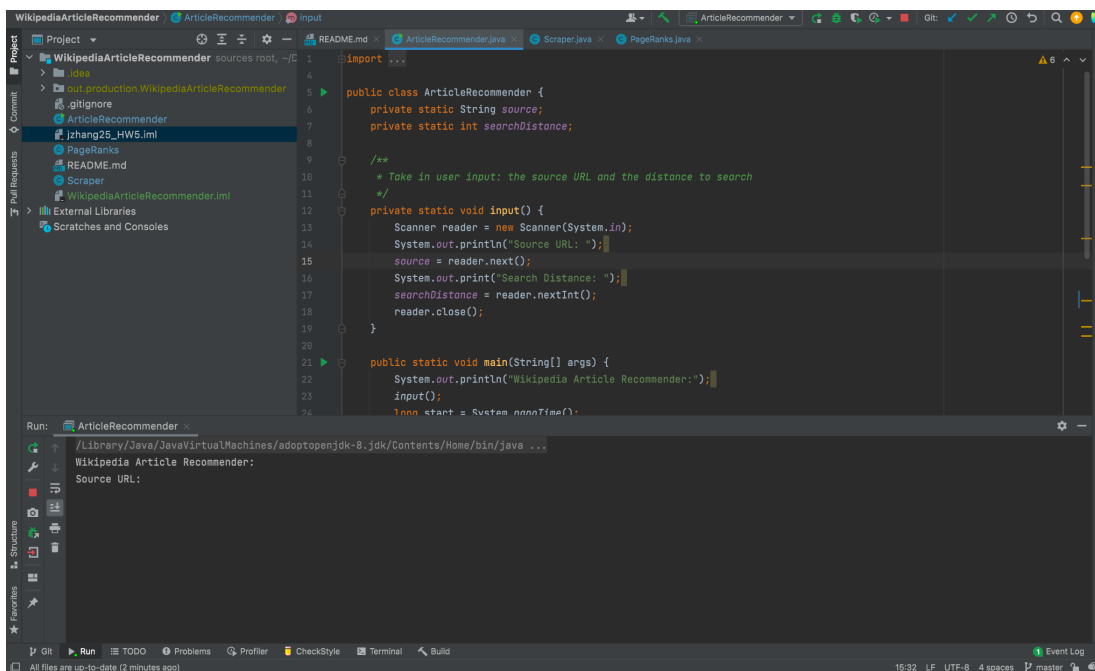

Figure 1. The initial start screen of the program.

Then input any source URL from Wikipedia of your choice. The source URL entered will determine the articles the program recommends to the user. An example valid source URL is
https://en.wikipedia.org/wiki/2022_Russian_invasion_of_Ukraine.

Afterwards, input a search distance k, and the number of links you wish to sample per Wikipedia page n. Because visiting each link on each Wikipedia page would take too long, we randomly sample n links on each page instead, and we continue this process on each page until we have hit k links away from the source URL. A recommended number for k is between 2 and 4, and a recommended number for n is between 5 and 20.

Finally, input a number of recommended articles r that you want the program to output to you. After this, the program will visit Wikipedia pages and calculate the PageRank of all of them, and then print out the r articles with the highest PageRank. Refer to Figure 2 for a sample output.
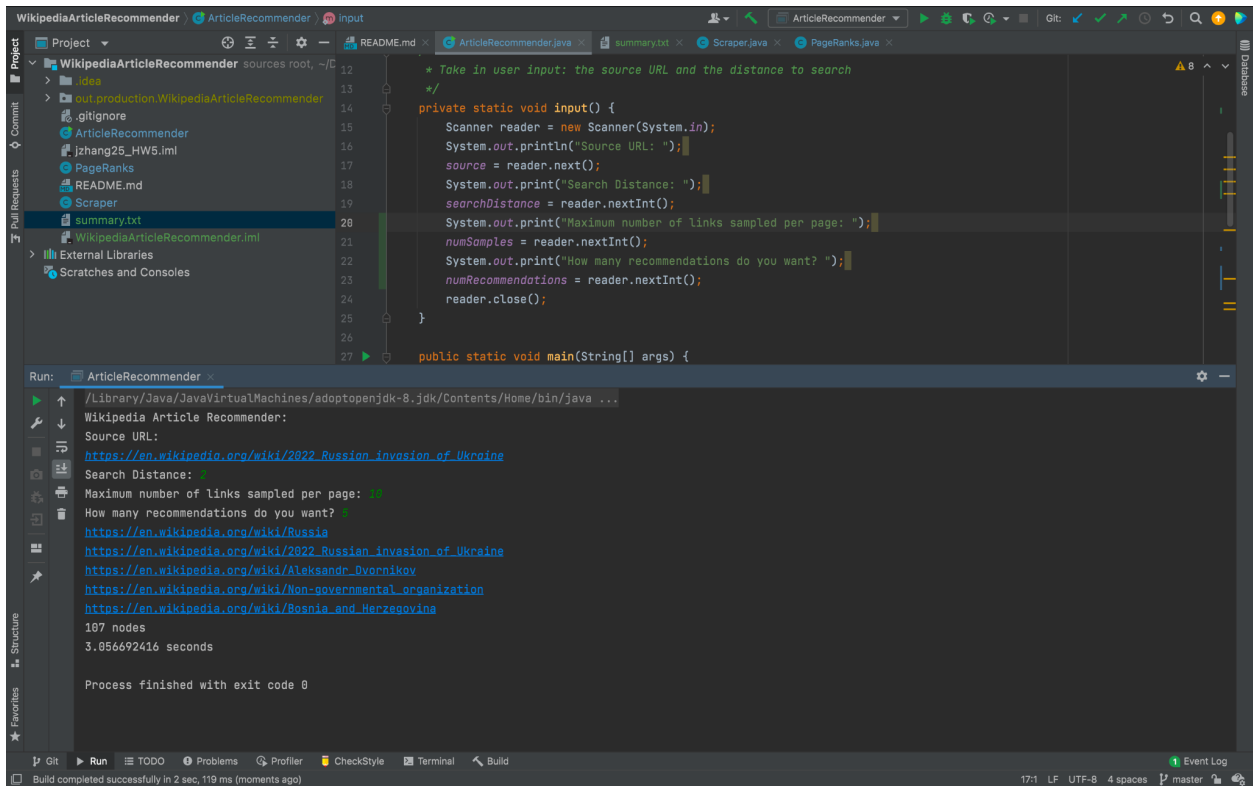
Figure 2. Sample output for the source URL provided above, a search distance of 2, max number of links sampled being 10, and 5 recommendations.