

Appendix

Key Features

- Reads user information from file (if available) on start-up
- Choice of category of interests
- Configuration of social media settings (with instructions)
- Ability to modify refresh and auto-posting frequency
- Retrieval and display of articles from the internet based on user's interests, including an image for the article
- Automatic refreshing of the news feed
- Posts to Facebook and/or Twitter
- Button opens article on default browser
- User can manually post to Facebook and/or Twitter with this application
- Auto-posting process determines trending topic and generates modifiable message containing link to article
 - Does this automatically or on press of "Auto-post" button
- Error messages resulting from improper social media configuration or message exceeding Twitter character restriction
- Prevents auto-posting the same article twice
- Saves to file on exit

Video Transcript

Hello and welcome to my demonstration of my social media manager application. To start off, we're going to run this executable jar file, which will open a window that prompts us to enter our name. This only happens on the first run of this program. We can either press this button or the keyboard shortcut of Alt+Enter.

Next, a settings window opens up where we can choose our interests. This is the news that we will see. My client specifically wanted to see sports news, but you could select any number of these. One thing to note is that if you try to continue without having selected one, it doesn't allow you to, so you must select at least one. This makes sure that your news feed isn't completely empty. Next is the configuration, we're going to go into this in more detail later. The last tab is the frequency settings. This is how frequent your news feed will refresh, and how frequently your program will automatically post to your preferred platforms. So I'm going to make this two hours... and save.

This next process takes a few seconds, as the program sends a request to the internet to get all the information sources, converts these from the JSON response into a java object. And then it has to get images for all these articles based on the image url that comes with the article. So this takes a few seconds.

Here we have our main window with the news feed, containing many different sources that were retrieved based on the interests that you selected. You have BBC sports, NBA, various sports news sources. We can view these articles by clicking this button here, which opens up your default browser to this article. You can also choose to post about this article on [click on "Post about it" button] either Facebook and/or twitter. If your social media settings aren't configured yet and you try to post, then it'll give you a configuration error. This error message then prompts you to open the settings window where you can configure your social media settings. [opens settings window] The instructions are given here, so the user knows what to do. I'm going to pause this and very

quickly input all the information. It takes a while, but the good thing is you only have to do this once.

I've inputted all my token and username information. With the Facebook token, this is an extended access token that will need to be renewed every two months, and I will need to input it again. But the rest of them you only need to input once. The checkbox indicating preference is for the auto-posting, so that if you were to leave your computer alone for how many hours, it would be able to post to one or both of your social media platforms. So I'm going to select Facebook and save.

Let's go to auto-posting. This would usually take two hours or whatever you set your auto-post to be, but there's also this handy button. [clicks on Auto-post button]. The auto-post process picks trending topics to post about. One useful feature about this posting window is that if your character count is too high and you want to post to twitter, it won't let you and it'll give you a "message too long" error. [fixes this and clicks "Post"]. Let's see that the first message did post to Facebook, because it was able to ... and it did! We can also post to twitter real quick, and we'll see it pop up in a second [posts about an article to twitter].

Whenever you close out of the program, it automatically saves into a file.

Extensibility of Product

This application is very flexible to the end-user's desires. This is done through the settings which allow the user to select their interests, input their social media login/token information, choose their preferred platform to auto-post to, and decide how often they want the news feed to refresh and auto-post. Users also have the choice to write and modify messages and select which platform they want them to be posted to.