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Design Document

The shutdown method sets the shutdown flag in the webserver to true. When the socket in the web server times out, the while loop checks the flag and ends the loop. The ExecutorService waits 5 seconds for the currently running threads to terminate and shut down any incoming threads. Following this, the program shuts down all the threads in the pool and closes the server socket to stop taking any requests from the user. Therefore, the server is shut down.