

# Kigo Requirements Spreadsheet

Tuesday, December 3, 2024 8:47 PM

CLASS 3300-003 or 4											
Intro to Software Engineering											
TEAM: Kigo											
REQ Lead: Kelly											
DATE: 3-Dec-24											
Project Final Presentation - Requirements Spreadsheet											
ID	REQUIREMENT	CONFIGURATION MANAGEMENT			TEST					Final DELIVERY Date	Comments
		Team Member	INC/Ver	Date Delivered	Test Method	Team Member	Date Tested	# Flags	Flags Resolved		
								# of issues	# of issues resolved		
NFR-016	Ensure reliable file operations	Kelly	Increment 1	10/20/2024	Simulated various input file issues (missing, empty, corrupt) to test error handling.	Kelly	10/22/2024	1	1	10/22/2024	Error messages refined to be more user-friendly and clear.
FR-007	Test syllable counting against reference	Kelly	Increment 1	10/25/2024	Created testingSyllableCounter class to generate output.txt and compare with reference data for 1000 common words.	Kelly	10/26/2024	1	1	10/28/2024	Mismatches logged and resolved; introduced better edge case handling for rare word structures.
FR-005	Implement algorithm to count syllables. End goal is >= 95% accurate.	Kelly	Increment 2	10/25/2024	Created testingSyllableCounter class which produces output.txt, correct_syllables.txt for comparing	Kelly	10/24/2024	1- Still missing some diphthong cases.	1		Still not accurate enough. Roughly 90% accurate.
NFR-017	Support extensibility in processing rules	Kelly	Increment 1	10/26/2024	Added regex patterns for vocable detection and tested for performance impacts during lyric processing.	Noah	10/26/2024	0	0	10/28/2024	Successfully extended regex rules without significant performance degradation.
FR-005	Implement algorithm to count syllables. End goal is >= 95% accurate.	Kelly	Increment 1	10/26/2024	TestingSyllableCounter against list a few lyric files.	Kelly	21-Oct	1	1		Still not accurate enough. Roughly 84% accurate.
FR-005	Implement algorithm to count syllables.	Kelly	Increment 3	10/26/2024	Song with Complex Words, acronyms, and slang words	Kelly	10/26/2024	1	0		Struggled slightly with unique word structures. Hyphenated words and acronyms pose a
FR-005	Additional diphthongs added to increase accuracy of Syllable Counter	Kelly	Increment 4	10/27/2024	Created testingSyllableCounter class which produces output.txt and correct_syllables.txt for comparing syllable count of thousands of words	Kelly	10/27/2024	link	1		Everything working as expected
FR-005	Improve diphthong and triphthong handling for syllableCounter	Kelly	Increment 1	10/27/2024	Tested additional rules for syllable counting in SyllableCounter1 Using diphthong- and triphthong-heavy	Kelly	10/28/2024	0	0	10/29/2024	Accuracy improved by 5% with added cases for less common diphthongs and triphthongs.
FR-006	Save haikus to structured text files	Kelly	Increment 1	11/12/2024	Validated haiku output format and directory creation in haikus folder.	Kelly	11/14/2024	0	0	11/14/2024	Output files saved correctly and verified for format and readability.
FR-015	Handle incorrect arguments in HaikuFinder	Kelly	Increment	11/16/2024	Passed invalid arguments to verify error handling and fallback behavior.	Kelly	11/17/2024	0	0	11/17/2024	HaikuFinder now handles invalid inputs gracefully and logs errors appropriately.

FR-015	Handle incorrect arguments in HaikuFinder	Kelly	Increment	11/16/2024	Passed invalid arguments to verify error handling and fallback behavior.	Kelly	11/17/2024	0	0	11/17/2024	HaikuFinder now handles invalid inputs gracefully and logs errors appropriately.
FR-009	Error Handling for incorrect argument passed to HaikuFinder.	Kelly	Increment 1	11/17/2024	Allows command line to pass arguments (file names) to HaikuFinder	Kelly, Sam	Tested initially on 11/3/24 and ensured correct rendering for each <del>every build</del>	0	0	11/17/2024	No significant issues.
FR-005	Implement algorithm to count syllables	Kelly	Increment 2.1	11/17/2024	SyllableCounter1 with a curated list of lyric files; compared results to manual counts	Kelly	11/17/2024	0	0	11/17/2024	Accuracy improved from 84% to 95% with refined rules for diphthongs, triphthongs, and silent 'e'.
FR-001	User Spotify Authentication	Noah	Increment 1	10/20/2024	Tested with my spotify account to verify I was able to login and retrieve data.	Noah	10/21/2024	0	0	10/21/2024	While there were no "flags" this step took me a long time to understand. I was attempting to retrieve the wrong token and use it for user authentication.
FR-002	Pull user's listening history	Noah	Increment 2	10/24/2024	Signing in with spotify account and verifying the returned songs are my top tracks	Noah	10/24/2024 thru 10/25/2024	1 - Would return saying it could not locate <del>these three</del>	0	10/25/2024	Went smoothly, the code returned all the songs by song name and artist.
FR-002	Pull user's listening history. Fixed bug causing code to return an error	Noah	Increment 2.1	10/30/2024	Signing in with Spotify account and verifying returned songs are correct and do not include error message	Noah	10/30/2024	0	1 - Code no longer returns error when returning top songs	10/30/2024	To complete validation you need to get a code from the url after the user signs in. I do not know how to get the code at this point.
FR-002	Pull song lyrics for one song	Noah	Increment 3	11/4/2024	Tested by manually entering names of songs. To verify lyric API data I input popular track names as well as niche	Noah	11/4/2024	1 - no error handling for when song lyrics cannot be located	0	11/7/2024	This API setup went much smoother than the spotify API did. Using Lyrics.ovh API to collect song lyrics
FR-008	Pull song lyrics for user's most-listened songs	Noah	Increment 3.1	11/12/2024	Used my spotify account to pull my top tracks, then feed them into the lyrics.ovh api to return the lyrics of all the songs	Noah	11/14/2024	0	0	11/14/2024	lyrics.ovh API does not have lyrics for all songs, niche, less popular songs are less likely to have lyrics available through the API.
FR-008	Pull song lyrics for multiple tracks	Noah	Increment 3.1	11/16/2024	Tested code by having it read a list of song names and attempted to retrieve and print lyrics.	Noah	11/16/2024 thru 11/18/2024	0	1 - now has error handling for songs without lyrics available.	11/20/2024	Added error handling for when song lyrics could not be located.
FR-008	Pull song lyrics for user's most-listened songs	Noah	Increment 3.2	11/19/2024	Checked files after running program. Only created files for songs which had lyrics.	Noah	11/20/2024	0	0	11/21/2024	Previous iteration of collecting song lyrics just output to terminal. Implemented file outputting system for song lyrics. A decent proportion 11/20 of my most listened to song did not have available lyrics
FR-008	Pull song lyrics for user's most-listened songs	Noah	Increment 3.3	11/24/2024	Validated files outputted in the new correct format	Noah	11/25/2024	0	0	11/26/2024	Files now include song name and artist name instead of just being in the file's name.
FR-018	Compile lyrics	Noah	Increment 4	11/26/2024	Ensure all components can work together to	Noah	11/26/2024	0	0	11/27/2024	Code that combines, user authentication, top song retrieval, lyrics

FR-008	Pull song lyrics for user's most-listened songs	Noah	Increment 3.2	11/19/2024	Checked files after running program. Only created files for songs which had lyrics.	Noah	11/20/2024	0	0	11/21/2024	Previous iteration of collecting song lyrics just output to terminal. Implemented file outputting system for song lyrics. A decent proportion 11/20 of my most listened to song did not have available lyrics.
FR-008	Pull song lyrics for user's most-listened songs	Noah	Increment 3.3	11/24/2024	Validated files outputted in the new correct format	Noah	11/25/2024	0	0	11/26/2024	Files now include song name and artist name instead of just being in the file's name.
FR-018	Compile lyrics	Noah	Increment 4	11/26/2024	Ensure all components can work together to create song lyrics	Noah	11/26/2024	0	0	11/27/2024	Code that combines, user authentication, top song retrieval, lyric retrieval, and file outputting.
FR-010	Implement user interface layout and appropriate buttons.	Sam	Increment 1	10/24/2024	Verified functionality of all buttons, including "Connect Spotify" and "Generate Haiku," ensuring they triggered appropriate actions and page transitions.	Sam	10/24/2024	0	0	10/25/2024	Resolved UI alignment issues during testing; adjusted CSS for better layout and responsiveness.
FR-009	GUI display and navigation.	Sam	Increment 1	10/27/2024	Tested page transitions (e.g., "Home", "About", and "Preferences") and button interactions (e.g., "Generate Haiku"). Ensured smooth navigation and proper rendering of all pages.	Sam	10/27/2024	2	2	10/29/2024	Verified proper navigation through live testing; adjusted UI layout for responsiveness.
NFR-003	Design visuals for GUI (app background, cursor design)	Sam	Increment 1	11/3/2024	Visuals are stored in docs>src>visual and all relevant code points to this location. Ensured that visuals rendered correctly for every build of the webpage.	Sam	11/3/2024	0	0	11/3/2024	Verified proper navigation through live testing; adjusted UI layout for responsiveness.
NFR-004	Store user preferences locally.	Sam	Increment 1	11/3/2024	Tested storing user preferences such as "Allow Explicit Content" via toggles in local storage and verified persistence across sessions.	Sam	10/24/2024	0	0	10/24/2024	Our team ended up not needing this preference because Spotify already has an age verification check when users sign up. It will need to be removed in future versions.
NFR-005	Functionality to clear user data.	Sam	Increment 1	11/3/2024	Tested the "Clear Local Data" button to ensure it deleted all locally stored user preferences such as the "Allow Explicit Content" preference.	Sam	11/3/2024	0	0	11/4/2024	Same as above- Our team ended up not needing this preference because Spotify already has an age verification check when users sign up. It will need to be removed in future versions.
NFR-006	Functionality to toggle certain preferences.	Sam	Increment 1	11/3/2024	Tested toggling preferences such as explicit content filtering. Verified UI updates and preference persistence.	Sam	11/3/2024	0	0	11/4/2024	All toggles worked as intended.
NFR-007	Dynamic data display (for user-specific data such as Spotify username, profile image, etc).	Sam	Increment 1	11/26/2024	Tested rendering of user-specific data obtained from Spotify API, such as usernames and profile images.	Sam	11/26/2024	0	0	11/26/2024	User-specific data displayed accurately. No issues.
FR-011	Spotify authentication and haiku generation	Sam	Increment 1	11/26/2024	Tested full authentication flow,	Sam	11/26/2024	3	3	11/26/2024	Spotify authentication and haiku generation

FR-011	Spotify authentication and haiku generation flow.	Sam	Increment 1	11/26/2024	Tested full authentication flow, including redirection to Spotify's login page and returning to Kigo for haiku generation and display.	Sam	11/26/2024	3	3	11/26/2024	Spotify authentication and haiku generation worked as intended.
FR-012	Implement routes for executing certain tasks such as authorizing Spotify, fetching lyrics, and generating haikus.	Sam	Increment 1	11/27/2024	Tested backend routes /login, /callback, /fetch-lyrics, and /generate-haiku independently and in combination with frontend interactions. Verified correct data flow.	Sam	11/27/2024	5	5	11/29/2024	All routes worked as intended, handling requests and responses accurately.
FR-013	Run JAR files built from the Java source code to perform the above tasks.	Sam	Increment 1	11/27/2024	Tested execution of JAR files for Spotify data retrieval, lyrics fetching, and haiku generation. Verified inputs and outputs through backend processes and validated final outputs.	Sam	11/27/2024	3	3	11/29/2024	JAR files were executed successfully via Node.js backend. Ensured proper input handling and output formatting.
FR-014	Implement developer-facing error handling and logging.	Sam	Increment 1	11/27/2024	Verified presence of detailed logging for debugging purposes (e.g., API errors, authentication issues, and HTTP status codes).	Sam	11/27/2024	0	0	11/29/2024	Developer-facing error messages and logs provided sufficient detail for debugging.