

'Fennec' Test Plan

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<https://www.cs.purdue.edu/homes/xyzhang/cs408spring16/testplan.htm>

Severity Scale

- 1 - Critical
- 2 - Major
- 3 - Minor
- 4 - Usability

Server

Identification and Classification	Instructions	Expect Results
PARSING 01, User link adding, Severity 1	Give the server a youtube link	Ensure the link is converted for embedding correctly
PARSING 02, User link adding, Severity 1	Give the server a soundcloud link	Ensure the link is converted for embedding correctly
PARSING 03 User link adding, Severity 1	Give the server an invalid url	The server rejects the link without adding it to the queue
MEDIA 01, Next in station queue, Severity 1	Request for the next item in queue for a specified station	A JSON request is returned with the URL for the next media item enqueued for the station
MEDIA 02, Next in empty station queue, Severity 2	Request for the next item in an empty queue for a specified station	A JSON request is returned with error code for no playable media
STATION 01, User station creation, Severity 1	Request the creation a new station	The server instantiates the station and adds the user to a queue for that station
STATION 02, User station join, Severity 1	Request a new user joins a channel	The server adds that user to the station
STATION 03, User station empty, Severity 1	Request the last user in a station disconnects	The station data should no longer be reachable
STATION 04, Empty username join, Severity 3	Request to join a station with a user with an empty username	The request is denied, user is not added to the station
STATION 05, Duplicate	Request to join a station	The request is denied, user

username join, Severity 3	with a user with a username already in use	is not added to the station
REMOVE 01, Single video removal, Severity 2	A request is sent to remove a single video from a specified station	The video is removed from the queue
REMOVE 02, User removal, Severity 2	A request is sent to remove a user from a specified station	The user is removed from the station
REMOVE 03, Non existent video removal, Severity 3	A request is sent to remove a video which is not currently in the specified station's queue	An error is returned stating the video did not exist in the specified station's queue
REMOVE 04, Non existent user removal, Severity 3	A request is sent to remove a user who is not currently connected to the specified station	An error is returned stating the user was not connected to the specified station
CRAWLER 01, YouTube results, Severity 2	Call the search endpoint with a proper search string for YouTube search results	The JSON output should contain a list of results containing essential video metadata.
CRAWLER 02, SoundCloud results, Severity 1	Call the search endpoint with a proper search string for SoundCloud search results	The JSON output should contain a list of results containing essential music metadata.
CRAWLER 03, empty search string for YouTube, Severity 3	Call the search endpoint with an empty search string for YouTube search results	Crawler should not crawl anything, and just return an empty JSON directly.
CRAWLER 04, empty search string for SoundCloud, Severity 3	Call the search endpoint with an empty search string for SoundCloud search results	Crawler should not crawl anything, and just return an empty JSON directly.
CRAWLER 05, search string containing weird symbols for YouTube, Severity 3	Call the search endpoint with an emoji for YouTube search results	Crawler should crawl YouTube with the emojis ignored, and return the JSON output properly.
CRAWLER 06, search string containing weird symbols for SoundCloud, Severity 3	Call the search endpoint with an emoji for SoundCloud search results	Crawler should crawl SoundCloud with the emojis ignored, and return the

		JSON output properly.
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Web Client

Identification and Classification	Instructions	Expect Results
STATION 06, User connect to station, Severity 1	Attempt to join a station	The station is shown to be joined in the UI, random nickname is assigned
STATION 07, User create station, Severity 1	Attempt to create a station	The stations is shown to be created in the UI
STATION 08, check UI, Severity 2	Attempt to display video/music queue	The media and nickname that added it is shown to be in the UI
STATION 09, User connect to station, Severity 2	Attempt to set a nickname	Ensure nickname displays correctly (including unicode)
SEARCH 01, User searches, Severity 2	Search something in the search bar	The UI components are formatted correctly for both youtube and soundcloud
MESSAGING 01, User send message, Severity 1	Send a message	Ensure message is received on the server
MESSAGING 02, User receive sent message, Severity 1	Receive a message	Ensure message is received by client
BROWSE 01, View homepage, Severity 1	Attempt to load the home page	A station browser is shown listing available stations
VOTE 01, Single video removal, Severity 2	A request is sent to remove a single video from a specified station	The video is removed from the queue
VOTE 02, User removal, Severity 2	A request is sent to remove a user from a specified station	The user is removed from the station
VOTE 03, Non existent video removal, Severity 3	A request is sent to remove a video which is not currently in the specified	An error is returned stating the video did not exist in the specified station's queue

	station's queue	
VOTE 04, Non existent user removal, Severity 3	A request is sent to remove a user who is not currently connected to the specified station	An error is returned stating the user was not connected to the specified station

IRC

Identification and Classification	Instructions	Expect Results
MESSAGING 01, User send message, Severity 1	Send a message	Ensure message is received on the server
MESSAGING 02, User receive sent message, Severity 1	Receive a message	Ensure message is received by client
MESSAGING 03, User vote kick, Severity 2	Vote to kick a user from IRC	Ensure that the user is removed from the IRC
MESSAGING 04, Media skip, Severity 2	Vote to skip the currently playing media	Current media is removed, next media is started if any
MESSAGING 05, Vote kick result, Severity 2	Display the result of a vote kick	Result of a vote shows up in IRC
MESSAGING 06, Media skip result, Severity 2	Display the result of a media skip	Result of a media skip vote shows up in IRC