- Test plan identifier

TPNOISLI#01

- Introduction

This is a test plan document for Noisli - a sound generation service that provides a possibility to mix different sounds or listen to one of them. This plan describes the testing activities for a web site Noisli only, excluding iOS, Android apps and Chrome extension.

- Test items

Sign Up
Log In using account from main page
Log In using Google+ from 'Welcome Back :)'
Log In using Google+ from 'Sign Up, it's free' dialog
Log In using Facebook from 'Welcome Back :)'
Log In using Facebook from 'Sign Up, it's free' dialog
Log In from 'Welcome Back :)'
Log In from 'Sign Up, it's free' dialog
Log Out
Create an account using 'Sign up' button from the main page
Create an account using 'Create My Profile' button from 'New Features To Help You Boost Your Productivity' dialog
Create an account using 'Create an Account' button from 'Welcome Back :)' dialog
Return to main page
Pass tutorial
Disable overall volume
Enable overall volume
Increase overall volume
Decrease overall volume
Disable volume of a specific sound
Enable volume of a specific sound
Increase volume of a specific sound
Decrease volume of a specific sound
Create a combination
Duplicated combination
Save the combination
Rename the combination
Activate the combination
Reorder the combinations
Share the combination using Google+

Share the combination using Facebook
Share the combination using Twitter
Random combination
Productivity combination
Relax combination
Imprint
Apps
Jobs
Blog
Features
Terms & Privacy
Contact
Set timer
Start timer
Pause timer
Cancel timer
Resume timer
Fade out
Settings
Update basic information (user name, first name, email, last name)
Change password
Delete account
Confirm deleting of account
Cancel deleting of account
Subscribe (Sign Up)
Stop Background
Resume Background
Favorites
Write into Text Editor
Copy into Text Editor
Preview Markdown
Save text as txt
Save text on DropBox
Tutorial
Links to the external apps
Download iOS app
Download Android App
Download Chrome Extension
Copyright
Return to main page
Sound via computer audio

Sound via headset
Sound via headphones
Sound via loudspeakers
Supported browsers

- Features to be tested

* Functional testing *
Sign Up with valid (…) name and password
Sign Up for free from Features tab
Sign Up, it's free from Features tab
Email with confirmation link after account creation
Attempt to create an account that already exists
Attempt to sign up with empty user name
Attempt to sign up with empty password
Attempt to sign up with invalid (…) user name
Attempt to sign up with invalid (…) password
Log In using custom profile
Log In using Google+
Log In using Facebook
Attempt to log in without account link confirmation
Attempt to log in with incorrect password
Attempt to log in with non-existing login name
Attempt to log in without providing of the password
Log Out
Recover forgotten password
Attempt to change a password to same like the existing one
Attempt to change a password to the empty one
Attempt to change a password to the incorrect one
Being logged in via Noisli account, change password from another
device and try to use the logged in session
Being logged in via Google+ account, change password from another
device and try to use the logged in session
Being logged in via Facebook account, change password from another
device and try to use the logged in session
Creating of Account
Attempt to create the same account
Deleting of account
Confirmation of an account deleting
Cancelling of account deleting
Attempt to log in after deletion

Sign up with the same credentials after account deletion
Tutorial
Interruption of tutorial

Subscribe using Sign Up button putting being logged in
Subscribe using Sigh Up button putting being not logged in with an empty email in the field
Subscribe using Sigh Up button putting being not logged in with a valid email in the field
Subscribe using Sigh Up button putting being not logged in with an invalid by syntax email in the field

Settings opens user profile
Update user name to valid (…)
Update user name to invalid (…)
Update user name to the same
Update user email to valid (…)
Update user email to invalid (…)
Update user email to the same

Update last name to valid (…)
Update last name to invalid (…)
Update last name to the same

Stopping Background
Resuming Background

Favorites opens saved combinations
Timer opens timer settings

Correspondence of each sound item

Random combination
Repeated attempt of the random combination
Disable volume of all sounds by button in the top right corner
Enable volume of all sounds by button in the top right corner
Disable one sound from the random combination by the volume bar under the sound sign
Disable all sounds from the random combination by the volume bar under the sound signs
Enable additional sound item in the random combination

Disable some sound item in the random combination
Increase volume of some of the sounds in the random combination by the volume bar under the sound sign
Decrease volume of some of the sounds in the random combination by the volume bar under the sound sign
Increase volume of all sounds by button in the top right corner
Decrease volume of all sounds by button in the top right corner
Save default random combination and check
Save random combination modified by sound item and check
Save random combination modified by sound volume and check

Productivity combination
Repeated attempt of the productivity combination
Enable additional sound item in the productivity combination
Disable some sound item in the productivity combination
Save default productivity combination and check
Save productivity combination modified by sound item and check
Save productivity combination modified by sound volume and check

Relax combination
Repeated attempt of the relax combination
Enable additional sound item in the productivity combination
Disable some sound item in the productivity combination
Save default relax combination and check
Save relax combination modified by sound item and check
Save relax combination modified by sound volume and check

Custom combination
Repeated attempt of the custom combination
Enabling of additional sound item in the productivity combination
Disabling of some sound item in the productivity combination
Saving of default custom combination and check
Saving of custom combination modified by sound item and check
Saving of custom combination modified by sound volume and check

Saving of different combinations with the same name
Renaming of the combination
Activating of the combination
Reordering of the combinations

Sharing the combination using Google+

Sharing the combination using Facebook
Sharing the combination using Twitter

Set timer
Start timer
Pause timer
Fade out
Each of available fade outs
Zero seconds timer

Returning to the main page by Noisli in bottom left corner

Text entered from keyboard to the text editor in ASCII
Text entered from keyboard to the text editor in Unicode
Text tried to be pasted to the text editor
Picture tried to be pasted to the text editor
Saving within the browser
Saving to the file
Saving to the DropBox
Preview Markdown
Attempt to save to read-only location
Attempt to save to non-existing location

Simultaneous combinations creation using the same account from different connections
Simultaneous combinations deletion using the same account from different connections
Simultaneous combinations renaming using the same account from different connections
Simultaneous combinations reordering using the same account from different connections

Sound quality per each item
Sound consistency per each item
Sound realism per each item

Sound via computer audio
Sound via headset
Sound via headphones
Sound via loudspeakers

Links to each external app from the main page`

Imprint link shows valid well-readable information
Apps link shows valid well-readable information
Jobs link points to alive site with a correspondent content
Blog link points to alive site with a correspondent content
Features shows valid well-readable information
Terms of Use from Features tab
Terms & Privacy shows valid well-readable information
Contact opens form with the email set

Security
Impossibility to log in without a confirmation of link from email
Impossibility to log in with wrong password
Resistance to XSS
Resistance to SQL-injections
Notification email regarding password change
Password policy

Non-functional testing
Copyright
Response time under high load
Number of users with high load
Size of user accounts database
Size of the text file
Web site stability under high load
Sound consistency under high load

Usability testing
Easiness of use
Fonts
Colors

Downloads testing
Downloadability of iOS app
Downloadability of Android app
Downloadability of Chrome extension
Installation to iPod
Installation to iPad
Installation to iPhone
Installation to phone

Installation to tablet

Compatibility testing
With supported OSs
With supported browsers
With supported browser versions
With supported Java versions
With supported Adobe Flash Player versions

- Features not to be tested

Noisli-related external sources
iOS, Android apps and Google Chrome extension
Unsupported browsers

- Approach

Test scenarios will be written with Gherkin.
Scenarios which are reasonable to automate will be automated using Python (Behave).
Results of automated tests execution basing on features breakdown will be posted to the dashboard.
Performance, load and stress testing will be done using locust on a separate machine.
XSS scripts and SQL-queries for vulnerabilities testing will be written.
Functional testing and security testing will be executed both manually and in automated way.
Usability, static, downloads testing will be executed manually.
Performance testing will be executed in an automated way.
Testing will be executed on all supported web browsers are their versions.
Testing progress, risks are blocker will be discussed at the regular meetings.
Bugs will be reported into bug tracking system. Bugs will be triaged on a regular basis.
Automated suite will be re-run after bug fixing.
Manual testing will be re-executed after bug fixing in the related areas.
Results of manual testing will be documented during all testing period.

- Item pass/fail criteria

All manual and automated tests are executed. Results are documented.
Tests are considered as failed if the expected results differ from actual.
For the automation tests failure or pass will be reported by automation

tool.
Bugs are submitted if any and triaged.
No release blockers remain neither unfixed not untested.

- Suspension criteria and resumption requirements

Testing will be paused if test for Critical Path fails.
Testing will be paused if 25% of manual or automated tests fail.
Testing will be paused if severity 1 (Critical) or 2 (Major) security issue is found.
Testing will be resumed when all severity 1 (Critical) bugs are fixed if any, and/or when number of failing tests after bug fixing becomes less than 25% .

- Test deliverables

Test Plan
Test scenarios using Cucumber writing
Manual test cases
XSS scripts and SQL-queries for vulnerabilities testing
Automated tests
Performance tests
Load tests
Stress tests
Test Execution Report

- Testing tasks

Analyzing system requirements
Analyzing product requirements
Test plan creation
Performance testing plan development
Test scenarios using Cucumber writing
Manual test cases writing for the rest of the scenarios
XSS scripts and SQL-queries for vulnerabilities testing developing
Test environments set up
Automated tests creation
Manual functional testing (features testing)
Automated functional testing (features testing)
Security testing
Performance tests creation
Automated non-functional testing (performance testing)
Automated non-functional testing (load testing)
Automated non-functional testing (stress testing)

Manual compatibility testing
Automated compatibility testing
Manual static testing
Usability testing
Downloads testing
Bug fixes testing if needed
Regression testing if bug fixing took place
Results documenting

- Environmental needs

Separate machine for performance, load, stress testing
Machines with supported OSs according to the system requirements,
    including iOS, Android to ensure the downloaded package can be
    installed
Supported browsers installed according to the system requirements,
    including Chrome to ensure the downloaded extension can be
    installed
Java according to the system requirements
Adobe Flash Player according to the system requirements
Neural network to verify that the sounds are appropriate, i.e. icon 'forest'
    generates 'forest' sound (can be done by human)
Equipment to analyze the volume of the sound
Equipment to analyze the quality of the sound
Audio output devices listed above (headset, headphone)

- Responsibilities

Analyzing system requirements - Test Manager
Analyzing product requirements - Test Manager, Test Engineer
Test plan creation - Test Manager
Performance testing plan development - Test Engineer
Test scenarios using Cucumber writing - Test Engineer / Test
Automation Engineer
Manual test cases writing for the rest of the scenarios - Test Engineer
XSS scripts and SQL-queries for vulnerabilities testing developing - Test
Engineer
Equipment provision for testing - Finances
Test environments set up - Test Engineer / System Administator
Automated tests creation - Test Engineer / Test Automation Engineer
Manual functional testing (features testing) - Test Engineer
Automated functional testing (features testing) - Test Engineer / Test
Automation Engineer

Testing of sound quality - Test Engineer
Testing of sound correspondence - Test Engineer
Testing of sound realism - Test Engineer
Testing of sound consistency - Test Engineer
Security testing - Test Engineer
Performance tests creation - Test Automation Engineer
Automated non-functional testing (performance testing) - Test Engineer / Test Automation Engineer
Automated non-functional testing (load testing) - Test Engineer / Test Automation Engineer
Automated non-functional testing (stress testing) - Test Engineer / Test Automation Engineer
Manual compatibility testing - Test Engineer
Automated compatibility testing - Test Engineer / Test Automation Engineer
Manual static testing - Test Engineer
Usability testing - Test Engineer
Downloads testing - Test Engineer
Bug fixes testing if needed - Test Engineer / Test Automation Engineer
Regression testing if bug fixing took place - Test Engineer / Test Automation Engineer
Risks assessments - Test Manager, Project Manager
Results documenting - Test Engineer
Release sign off - Test Manager, Product Manager

- Staffing and training needs

Training regarding external equipment is needed for the sounds analyzing and volume analyzing.

- Schedule

3 months for testing activities for Test Engineer and Test Automation Engineer.
2 weeks of preconditions
Involved: Test Manager, Product Manager, Finances, System Administrator
Requirements analyzing
Test plan creation
Equipment provisioning
Equipment set up
Training regarding the equipment
Month 1

Involved: Test Engineer, Test Automation Engineer, Product Manager, Test Manager
Test environments set up
Test scenarios using Cucumber writing
Performance testing plan development
Manual sanity testing
Manual test cases writing for the rest of the scenarios
Automated tests creation
Month 2
Involved: Test Engineer, Test Automation Engineer, Product Manager, Test Manager
Manual functional testing (features testing)
Automated functional testing (features testing)
Manual compatibility testing
Automated compatibility testing
XSS scripts and SQL-queries for vulnerabilities testing developing
Security testing
Usability testing
Bug fixes testing if needed
Regression testing if bug fixing took place
Results documenting
Month 3
Involved: Test Engineer, Test Automation Engineer, Product Manager, Test Manager
Performance tests creation
Automated non-functional testing (performance testing)
Automated non-functional testing (load testing)
Automated non-functional testing (stress testing)
Manual static testing
Downloads testing
Bug fixes testing if needed
Regression testing if bug fixing took place
Results documenting
Release sign-off

- Risks and contingencies
Bug fixes: Confirmation testing and regression testing, including manual
Unplanned times off: Sick days and days off
Test equipment unavailability: Delays in schedule, test activities replanning, release delay
Test equipment delay: Delays in schedule, test activities replanning,

release delay

- Approvals
Product Manager