

Open Badges for SlideWiki - Test Specification

This document describes the test specification for Open Badges for SlideWiki. This document has the information about the tests being carried out, the test cases and the test coverage.

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Historic

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1. Scope

The scope of the testing is to ensure quality in Open Badges for SlideWiki. This also describes test strategy, configuration used and the test cases developed. With the test cases, the quality of the feature is examined and be confident that the functionality of the feature is good as mentioned in the external specification.

2. References

The following are the reference document names:

- Open Badges for SlideWiki Requirement Specification
- Open Badges for SlideWiki Architecture Specification
- Open Badges for SlideWiki Test Case Strategy Presentation

3. Feature Description Summary

3.1. Existing Behavior

Learning happens everywhere. However, it is often difficult to be recognized for skills and achievements that are gained outside of school. SlideWiki allows creating richly structured presentations comprising slides, self-test questionnaires, illustrations and the like. Activities like self-test and translation are not recognized by others when a user puts more effort. When a user passes a self-assessment with full marks, the marks are just stored in his profile. The translation activity which is considered to be one of the most difficult tasks is not recognized. The user's efforts are not known to the outside world. Self-Assessment and Translation are treated as just activities and did not provide further motivation since there is a lack of recognition.

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3.2. Open Badges for SlideWiki Description

Badges are a digital representation for self-assessment and translation activity. Badges can represent competencies and involvements in SlideWiki. Each badge is associated with an image and some metadata. The metadata provides information about what the badge represents and the evidence used to support it. By this way, a user can show to the SlideWiki community about his progress and about the activities he is following sincerely. The badge is successfully issued for self-assessment activity when the user scores 100% in the self-assessment. Apart from this, the number of questions the user has answered and whose questions the user has answered needs to be checked in order to ensure quality for issuing a badge. As of now four conditions have been formed for this. In that, the first condition is the default one. They are:

- Test has exactly 10 questions and the test taker did not contribute any questions.
- Test has more than 10 questions and the test taker did not contribute any questions.
- Test has more than 10 questions and the test taker has contributed less than or equal to 10% questions of the total questions.
- Test has more than 10 questions and the test taker has contributed less than or equal to 5 questions of the total questions.

The badge is successfully issued for translation activity when the user translates 50, 100 or above 100 slides. When a user translates 50 slides he will be given Basic translation badge, Intermediate translation badge for 100 slides and Advance Badge for more than 100 slides. Hence, every user will claim Basic badge after 50 slides and when he reaches total of 100 then Intermediate Badge is issued. When the user crosses 100 in total then the Advance Badge is issued.

ROLES

EARNER

Earners are someone who earns a badge and in SlideWiki earners are users. The earner can use their Backpack to manage and share their badges.

ISSUER

Issuer is an organization or an individual who issues Open Badges to their community. Here Issuer is SlideWiki. The issuer is responsible for defining badges, making them available to earners and handling applications for them.

DISPLAYER

Displayer is a website, organization, or person who accesses publicly shared Open Badges and displays them for badge earners. Here Displayer is SlideWiki.

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TOOLS

MOZILLA BACKPACK

The core authorized data store and management interface of Mozilla's reference implementation of the Backpack. Each earner has own Backpack where their badge data is stored.

4. Test Strategy

4.1. Overall Test Strategy

- Creating Self-Assessment by the user
- Take Self-Assessment of another user
- Translation checked by translating up to 3 slides
- User must have Mozilla backpack account
- Different types of web browsers should be used

Theme	Specification coverage
Unit Testing	NO
Non-Functional Testing	YES
Functional Testing	YES

4.2. Software Requirements

- XAMPP (It includes Apache, MySQL, PHP)

Or can be installed separately:

- Apache
- MySQL
- PHP
- SlideWiki
- APIs
 - Issuer API
 - Displayer API

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5. Expected Tests

5.1. Non-Functional Test Cases

Test Name	Description	Status	Priority
01_Check XAMPP Working	Steps: ===== 1) Open XAMPP Control Panel. Expected Result: ===== 1) The XAMPP Control Panel should be opened without any errors.	Pass	P0
02_Start Apache Service	Steps: ===== 1) Click the Start Action button opposite to the module Apache in XAMPP Control Panel. Expected Result: ===== 1) The Apache service should start with no errors and the green light should be seen surrounding the Apache in XAMPP Control Panel.	Pass	P0
03_Start MySQL Service	Steps: ===== 1) Click the Start Action button opposite to the module MySQL in XAMPP Control Panel. Expected Result: ===== 1) The Apache service should start with no errors and the green light should be seen surrounding the Apache in XAMPP Control Panel.	Pass	P0
04_Open SlideWiki	Steps: ===== 1) Open a web browser and type the URL http://127.0.0.1/slideshow . 2) Press the Enter Key. Expected Result: ===== 1) The browser should display the homepage of SlideWiki correctly. 2) All the decks should be loaded	Pass	P0

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	correctly.		
05_Check Issuer API and Displayer API	<p>Steps: =====</p> <p>1) Access the Issuer API and Displayer API outside SlideWiki. 2) Access the Issuer API and Displayer API inside SlideWiki</p> <p>Expected Result: =====</p> <p>1) Access outside SlideWiki should not be possible. 2) Access inside SlideWiki should be possible</p>	Pass	P1
06_Check Mozilla Backpack account	<p>Steps: =====</p> <p>1) Open a web browser and type the URL http://backpack.openbadges.org 2) Press the Enter Key. 3) Login with your email id.</p> <p>Expected Result: =====</p> <p>1) Navigation in the Mozilla backpack should be possible without any errors. 2) The login should be successful and you can be able to see the Badge collections webpage.</p>	Pass	P0
07_Log into SlideWiki	<p>Steps: =====</p> <p>1) Open a web browser and type the URL http://127.0.0.1/slideshow. 2) Press the Enter Key. 3) Click the Login/Register button and give your credentials.</p> <p>Expected Result: =====</p> <p>1) The browser should display the homepage of SlideWiki correctly. 2) All the decks should be loaded correctly. 3) Login should be successful and should be able to see the profile page.</p>	Pass	P0
08_Check Display badges page in SlideWiki	<p>Steps: =====</p> <p>1) After the login, click the option Earned Badges under the user name</p>	Pass	P0

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	<p>menu.</p> <p>Expected Result:</p> <p>=====</p> <p>1) The page should be directed to the Display Badges web page where you can see the list of badges that have been earned by the user.</p> <p>2) If no badge is earned by the user yet, or no badges has been imported by the user from Mozilla Backpack, or the user has not made the badges as public in Mozilla Backpack then he can see the message “No badges earned yet”.</p>		
09_Check Import Badge option in SlideWiki	<p>Steps:</p> <p>=====</p> <p>1) After the login, click the option Import Badges under the user name menu.</p> <p>Expected Result:</p> <p>=====</p> <p>1) The page should be directed to an interface is where the user can provide his Mozilla Backpack id, select his publicly shared group which will then be imported into SlideWiki.</p>	Pass	P0
10_Check Issue Badges for creating a deck	<p>Steps:</p> <p>=====</p> <p>1) In SlideWiki, login to a user account and create a new deck.</p> <p>Expected Result:</p> <p>=====</p> <p>1) The new deck should be created successfully.</p> <p>2) The user should not be issued badges for this activity.</p>	Pass	P2
11_Check SlideWiki Badges Description Menu	<p>Steps:</p> <p>=====</p> <p>1) Open SlideWiki webpage.</p> <p>2) Click the SlideWiki Badges Description menu.</p> <p>Expected Result:</p> <p>=====</p> <p>1) The SlideWiki Badges Description Menu should be visible.</p> <p>2) When the menu is clicked, the description about the badges should be</p>	Pass	P0

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	displayed in separate webpage.		
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5.2. Functional Test Cases

5.2.1. Issuing Badges Test Cases

Test Name	Description	Status	Priority
01_Take his own Self-Assessment	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) Create a new set of Self-Assessment. 2) Add the Self-Assessment to the Self-Assessment Catalogue. 3) Register for the Self-Assessment. 4) Take the Self-Assessment. <p>Expected Result: =====</p> <ol style="list-style-type: none"> 1) The user should be able to create a new set of Self-Assessment. 2) The user can successfully add it to the Self-Assessment Catalogue. 3) The user can successfully register for the Self-Assessment and can take the Self-Assessment successfully. 	Pass	P0
02_Take a Self-Assessment from the catalogue	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) Register for the Self-Assessment which is already present in the Self-Assessment Catalogue. 2) Take the Self-Assessment. <p>Expected Result: =====</p> <ol style="list-style-type: none"> 1) The user can successfully register for the Self-Assessment which was already present in the catalogue and can take the Self-Assessment successfully. 	Pass	P0
03_Check Issue Badges for scores less than 100	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) Finish the Self-Assessment. 2) Do not answer all questions correct. 	Pass	P1

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	<p>Expected Result:</p> <p>=====</p> <p>1) At the end of the Self-Assessment, the scores should be displayed to the user.</p> <p>2) Since the score is less than 100, the user should not be directed to Issue Badges web page.</p>		
04_Check Issue Badges for scores equals 100 and mismatching question criteria	<p>Steps:</p> <p>=====</p> <p>1) Finish the Self-Assessment.</p> <p>2) Answer all questions correct.</p> <p>Expected Result:</p> <p>=====</p> <p>1) At the end of the Self-Assessment, the scores should be displayed to the user.</p> <p>2) Even though the score is 100, the question criteria did not match. So do not issue the badge.</p>	Pass	P0
05_Check Issue Badges for scores equals 100 and matching question criteria	<p>Steps:</p> <p>=====</p> <p>1) Finish the Self-Assessment.</p> <p>2) Answer all questions correct.</p> <p>Expected Result:</p> <p>=====</p> <p>1) At the end of the Self-Assessment, the scores should be displayed to the user.</p> <p>2) Since the score is 100 and question criteria matches issue the badge.</p>	Pass	P0
06_Verify the Self-Assessment badges	<p>Steps:</p> <p>=====</p> <p>1) While claiming the badges for Self-Assessment verify the metadata of the badge.</p> <p>Expected Result:</p> <p>=====</p> <p>1) The metadata of the badges like the Issuer, Issued for and the Issuing criteria for the badge should be correct.</p>	Pass	P0
07_Push the badges into user's Mozilla Backpack	<p>Steps:</p> <p>=====</p> <p>1) Enter the user's mail id in the Issue badges web page in order to push the badge into Mozilla Backpack.</p>	Pass	P0

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	<p>Expected Result:</p> <p>=====</p> <p>1) The user's Mozilla Backpack should be authenticated successfully and the corresponding badge should be pushed.</p>		
08_Issue Basic Translation Activity Badge	<p>Steps:</p> <p>=====</p> <p>1) Translate one slide and save the slide.</p> <p>Expected Result:</p> <p>=====</p> <p>1) SlideWiki should notice the user that he is eligible for the Basic badge and should be redirected to Issue Badges web page.</p> <p>Note:</p> <p>=====</p> <p>Usually when a user translates 50 slides he will be notified about Basic Badge.</p>	Pass	P0
09_Issue Intermediate Translation Activity Badge	<p>Steps:</p> <p>=====</p> <p>1) Translate one more slide and save the slide.</p> <p>Expected Result:</p> <p>=====</p> <p>1) SlideWiki should notice the user that he is eligible for the Intermediate badge and should be redirected to Issue Badges web page.</p> <p>Note:</p> <p>=====</p> <p>Usually when a user translates 100 slides he will be notified about Intermediate Badge.</p>	Pass	P0
10_Issue Advance Translation Activity Badge	<p>Steps:</p> <p>=====</p> <p>1) Translate one more slide and save the slide.</p> <p>Expected Result:</p> <p>=====</p> <p>1) SlideWiki should notice the user that he is eligible for the Advanced badge and should be redirected to Issue Badges web page.</p> <p>Note:</p> <p>=====</p>	Pass	P0

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	Usually when a user translates more than 100 slides he will be notified about Advance Badge.		
11_Verify the Basic Translation badge	Steps: ===== 1) While claiming the basic badge for Translation Activity verify the metadata of the badge. Expected Result: ===== 1) The metadata of the badges like the Issuer, Issued for and the Issuing criteria for the badge should be correct.	Pass	P0
12_Verify the Intermediate Translation badge	Steps: ===== 1) While claiming the intermediate badge for Translation Activity verify the metadata of the badge. Expected Result: ===== 1) The metadata of the badges like the Issuer, Issued for and the Issuing criteria for the badge should be correct.	Pass	P0
13_Verify the Advance Translation badge	Steps: ===== 1) While claiming the advance badge for Translation Activity verify the metadata of the badge. Expected Result: ===== 1) The metadata of the badges like the Issuer, Issued for and the Issuing criteria for the badge should be correct.	Pass	P0

5.2.2. Display Badges Test Cases

Test Name	Description	Status	Priority
01_Group the badges	Steps: ===== 1) Go to the user account in Mozilla backpack. 2) Click My Collections option. 3) Drag and drop the badges that had	Pass	P0

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	<p>earned and form groups. Expected Result: =====</p> <ol style="list-style-type: none"> 1) The user should be able to login successfully into Mozilla Backpack. 2) The user can see all the badges earned in the Self-Assessment and in the Translation Activity. 3) The user can be able to group the badges according to his wish. 		
02_Import the badges into SlideWiki	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) In SlideWiki, click the option Import Badges under the user name menu. 2) Import a group containing one badge or a group containing more than one badge from the Mozilla Backpack. <p>Expected Result: =====</p> <ol style="list-style-type: none"> 1) The page should be directed to the Mozilla Backpack of the current user. 2) The user can successfully import the badges from the Backpack and store it in the SlideWiki database. 	Pass	P0
03_Display the badges in SlideWiki	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) In SlideWiki, click the option Display Badges under the user name menu. <p>Expected Result: =====</p> <ol style="list-style-type: none"> 1) The page should be directed to the Display Badges web page of the current user. 2) The user can see the badges that have been imported from Mozilla Backpack. 	Pass	P0
04_Display the badges in the Social Networking sites	<p>Steps: =====</p> <ol style="list-style-type: none"> 1) Go to the user account in Mozilla backpack. 2) Click My Collections option. 3) Drag and drop the badges that had earned and form groups. 4) Make the collection as public and click the share button. 5) Then click the Share the badges in 	Pass	P1

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	Twitter/Facebook/Google+. 6) Login to the respective Social Networking site and share the badge. Expected Result: ===== 1) The user should be able to login successfully into Mozilla Backpack. 2) The user can see all the badges earned in the Self-Assessment and in the Translation Activity. 3) The user can be able to group the badges according to his wish. 4) Now the user can share his collection in the selected social networking site.		
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6. Test Coverage

Name of the Project	Total #Tests	Tests #Passed	Tests #failed	Validation coverage
Open Badges for SlideWiki	28	28	0	100 %

Test coverage rate = $[(0 + 28) / 28] \times 100 = 100 \%$

7. Problem Reports

NA

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