OPEN BADGES FOR SLIDEWIKI

USER MANUAL

Authors: **Amir Ansari, Nishananth Baskaran, Raghu Palakodety, Salman Siddiqui**

Mentor: **Darya Tarasowa**

Chapter 1

Introduction

1.1. Overview

Learning happens everywhere. However, it is often difficult to be recognized for skills and achievements that are gained outside of school. The purpose of badges is to recognize those achievements and skills in SlideWiki. Open Badges for SlideWiki is the new feature for SlideWiki that issues the badges to the user for the two types of activities. They are

- Self-Assessment Activity
- Translation Activity

The badges are issued by SlideWiki to the user with the help of Issuer API. The user can display the badges in their page using the Displayer API. The users can also share the badges to the social networking sites with the Mozilla Backpack which is connected to each user's account.

1.2. Basic Description

Open Badges for SlideWiki project solves the unrecognition of the skills and the experiences. The feature is introduced by making it easy for anyone anywhere to issue, earn, and display badges in the SlideWiki. Badges will be issued now for the self-assessment and translation activities. This is the initial step for the recognition of the activities of the SlideWiki users. Badges can be used to represent the competencies and involvements of the users in SlideWiki. Badges are a digital representation which is now used to indicate the user's performance in self-assessment and in translation activities. 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 and outside about his performance and about the activities he is following sincerely.

1.3. SlideWiki Badge Description Menu

Users will always have a curiosity to know about the new changes when a website is modified. Since the badges are introduced in SlideWiki, a new menu is placed right after the 'About' menu called 'SlideWiki Badges'. This menu will traverse the user to the badges description page. In this page, the user can see the badges that have been introduced newly in SlideWiki and the criteria to receive those badges. The following figures shows the newly introduced menu and the newly introduced badge description page.
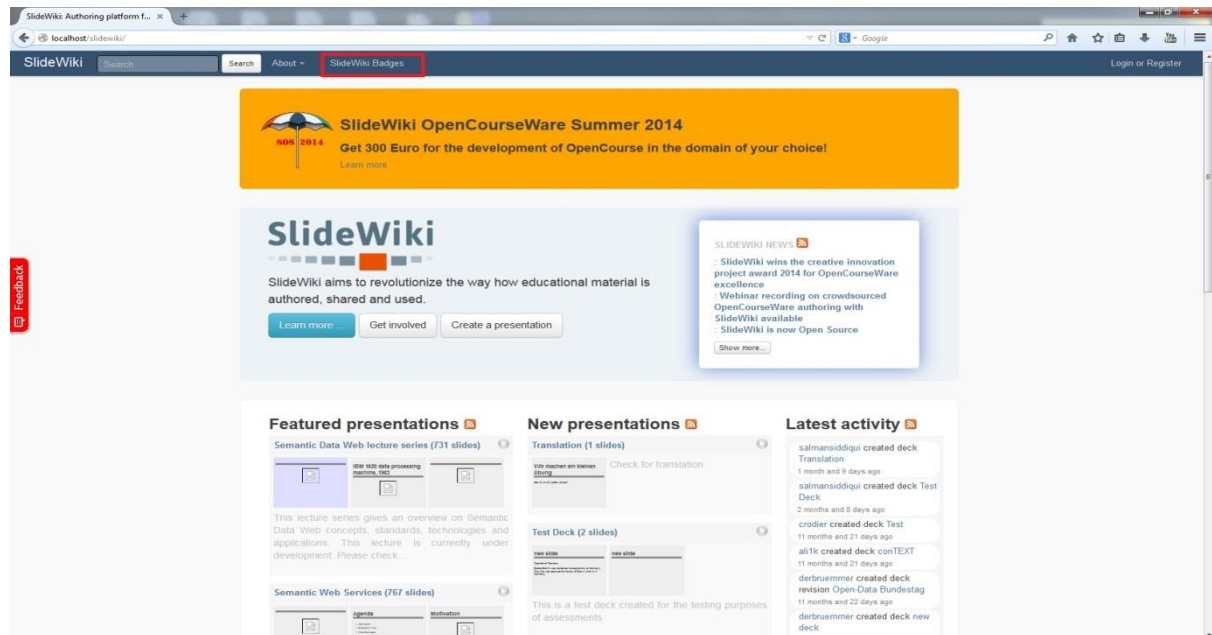

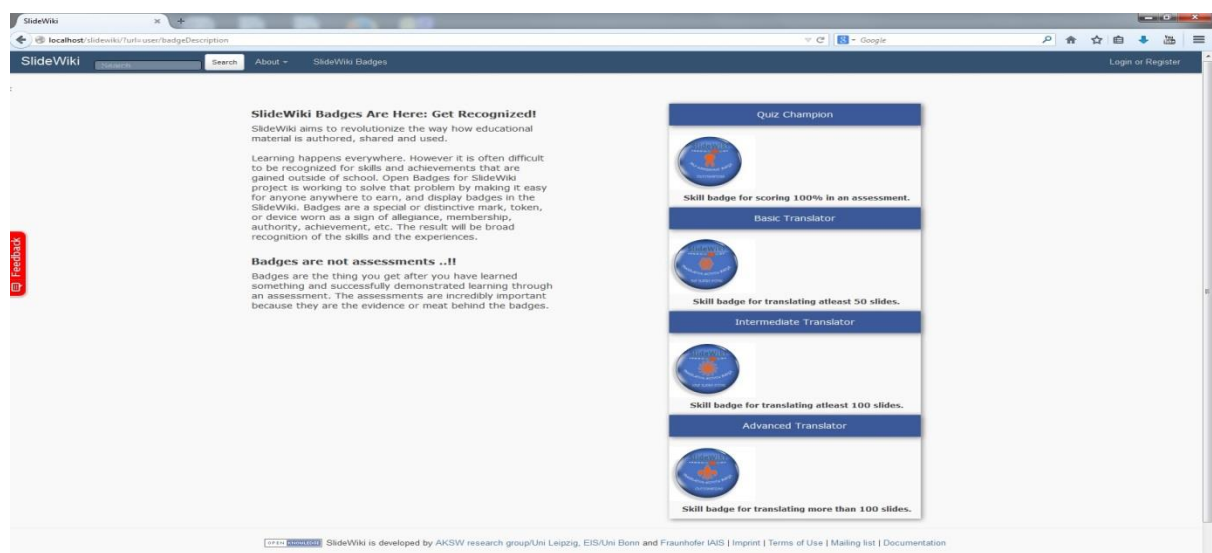*Figure 1.1*: SlideWiki Badges Menu

Figure 1.2 SlideWiki Badges Description Page

1.4. SlideWiki New User Profile Menus

Issuing of the Badges from SlideWiki to the user happens only when the above mentioned two activities take place. Apart from this, when a user generally login to SlideWiki he/she will notice two new options under their profile menu. The figure 1.3 shows the newly added options in the profile menu. The new options added are:

- Earned Badges
- Import Badges

The 'Earned Badges' option will navigate the user to the page where the user can view the badges. The user has an option to select what are the badges he can display in the user profile. The 'Import Badges' option will allow the user to import his earned badges from Mozilla Backpack to SlideWiki database. The detailed explanation about these two can be seen in the following section.
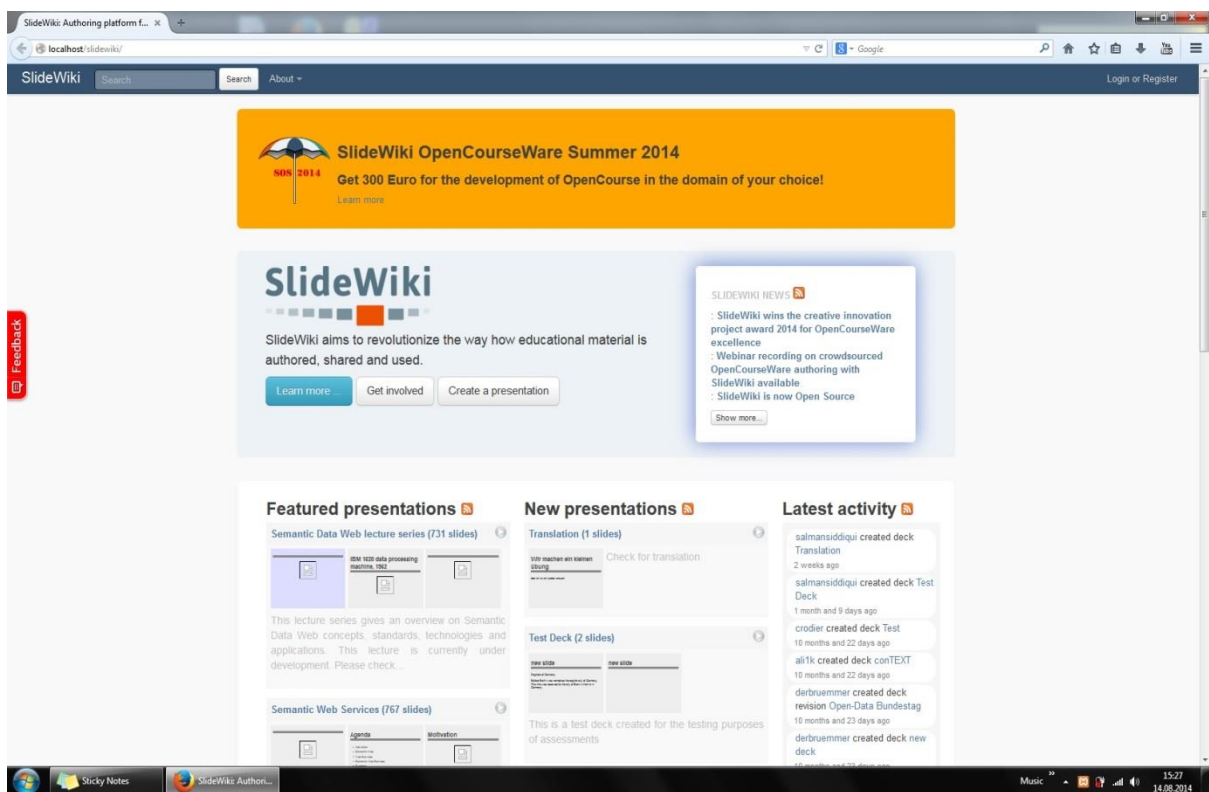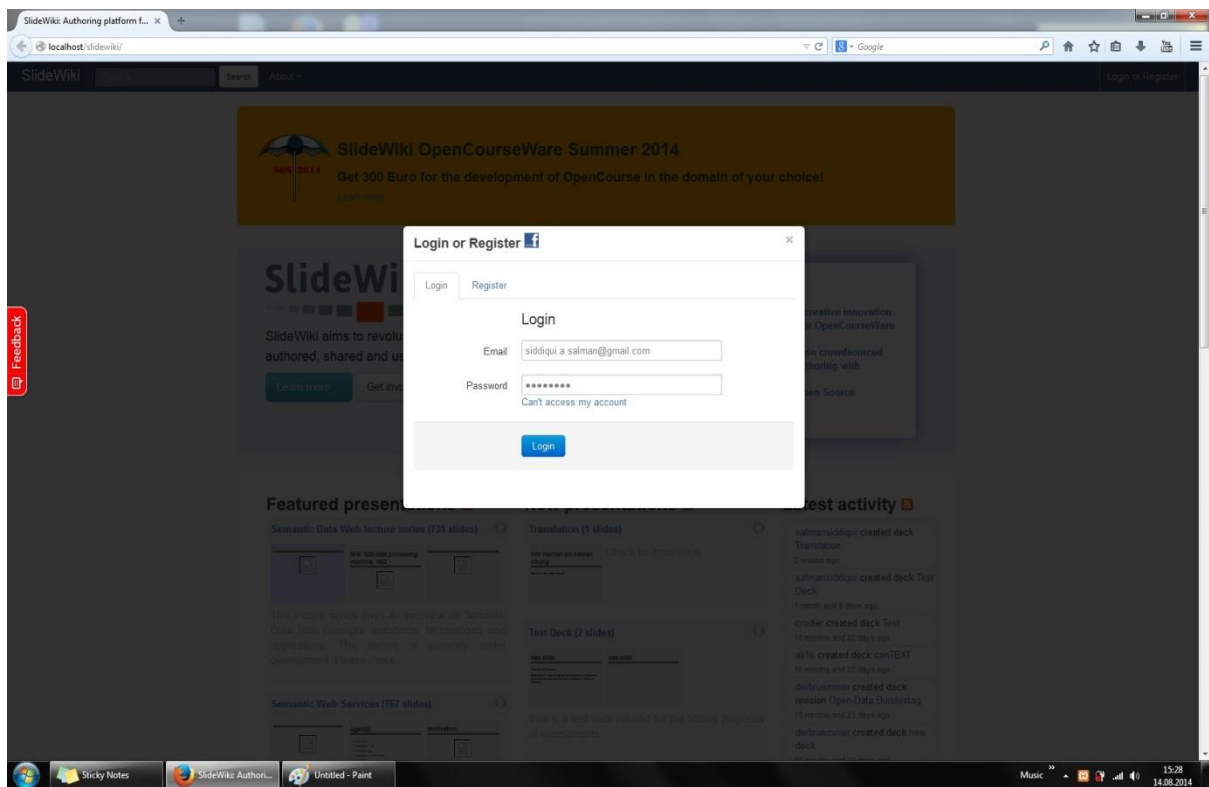

Figure 1.3: SlideWiki Homepage

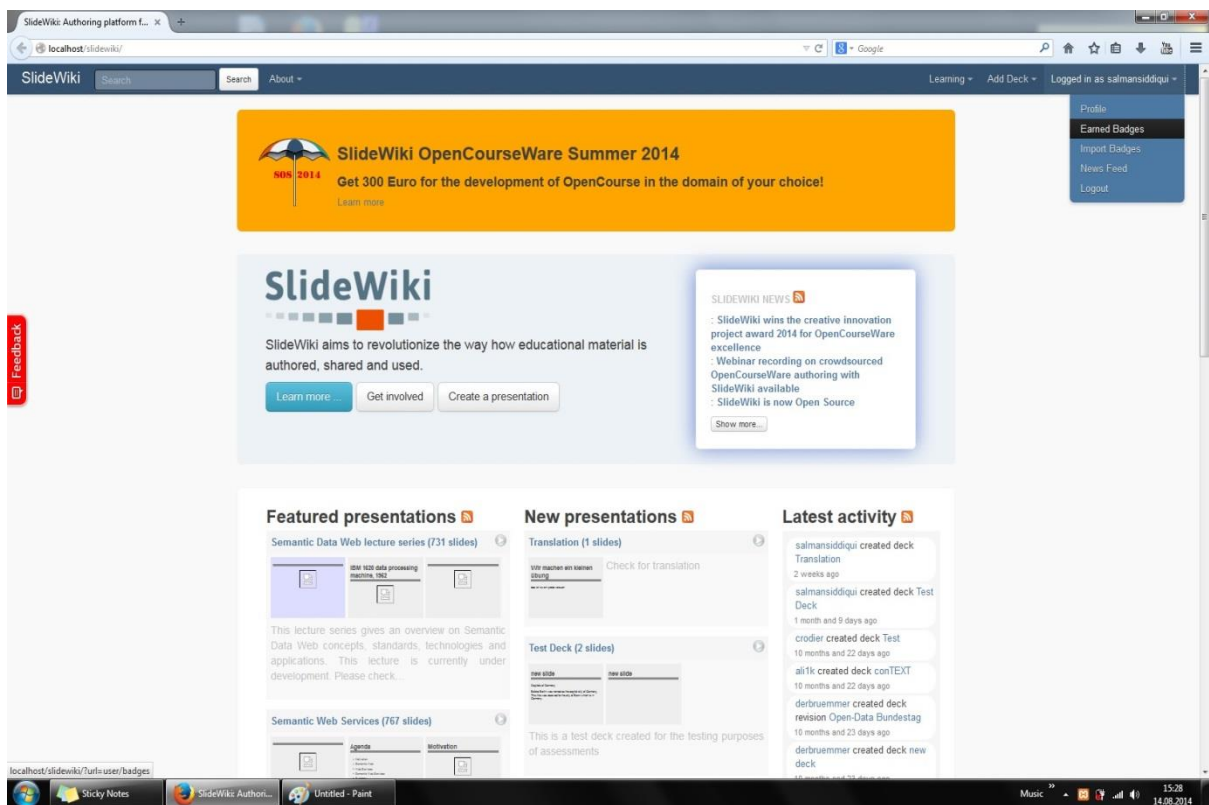*Figure 1.4:* A user logging in to SlideWiki

Figure 1.5: The two newly created menu under Profile

Chapter	
2	*Configurations*

The following are the software requirements for Open Badges for SlideWiki:

- XAMPP (It includes Apache, MySQL, PHP)

    Or can be installed separately:
- Apache
- MySQL
- PHP

- SlideWiki
- APIs
    - Issuer API
    - Displayer API

2.1. XAMPP Configuration

- XAMPP can be downloaded from the website http://www.apachefriends.org/download.html.
- Open the .exe file by double clicking it.
- Select the language from the Menu and click OK button.
- Click the Next button.
- Click the Next button once again.
- Select the install options and click Install button.
- After the installation is finished, click Finish button.
- Open the XAMPP Control Panel.
- Start the Apache Service.
- Start the MySQL Service.

2.2. SlideWiki Configuration

SlideWiki can be downloaded from www.bitbucket.org. The following are the installation steps that to be followed for installing SlideWiki:

- Download and extract SlideWiki into your server document root folder (e.g. C: /wamp/www/).
- Create an empty database.
- Change the following parameters in php.ini configuration file.
  - post_max_size = 750m
  - upload_max_filesize = 750m
- Import **slidewiki/db/slidewiki.sql** into the recently created empty database.
- Configure the installation
  - o Copy the **slidewiki/application/config/config.php-example** file to **slidewiki/application/config/config.php**.
  - o Change the configuration accordingly to your database and site settings: You need to change the following lines:

```
define('DB_DSN',
'mysql:dbname=YOUR_DATABASE_NAME;host=YOUR_HOST_NAME;charset=utf8');
//database and hostname of the database
define('DB_NAME', 'YOUR_DATABASE_NAME'); //the name of recently created database for
slidewiki
define('DB_USER', 'YOUR_USER_NAME'); //the name of the user, who is granted ALL privileges
for slidewiki database
define('DB_PASSWORD', 'USER_PASSWORD'); //the password of the user
define('BASE_PATH', 'YOUR_ROOT_LOCATION'); //URL path of index.php
```

- Check the configuration. Restart Apache service. For now the index page of SlideWiki should be already shown. However, you will need to configure your Apache and PHP installations before SlideWiki will be ready to use.
- Configure Apache. To work properly, SlideWiki requires rewrite_module to be enabled. Thus, be sure to uncomment the following line in htppd.conf:

```
LoadModulerewrite_module modules/mod_rewrite.s
```

- Additionally, the server must allow to use directives from .htaccess files. For this, your httpd.conf should include the following lines (YOUR_DOCUMENT_ROOT means the root directory for slidewiki, for example, c:/wamp/www/slidewiki)

```
DocumentRoot "YOUR_DOCUMENT_ROOT"
...
\<Directory "YOUR_DOCUMENT_ROOT\>
AllowOverride all
...
\</Directory\>
```

- Configure PHP. To work properly, SlideWiki requires a number of modules to be enabled. For that, uncomment the following lines in php.ini:

```
extension=php_curl.dll
extension=php_mbstring.dll
extension=php_gd2.dll
extension=php_gettext.dll
extension=php_intl.dll
extension=php_mysql.dll
extension=php_mysqli.dll
extension=php_openssl.dll
```

```
extension=php_pdo_mysql.dll
extension=php_pdo_sqlite.dll
extension=php_tidy.dll
```

- As well, short_open_tag should be enabled. For this, change short_open_tag = Off to short_open_tag = On.
- Additionally, you need to copy **ssleay32.dll**, **libeay32.dll** and **php_curl.dll** from PHP directory to system directory (e.g. C:\WINDOWS\System32)
- Restart Apache to complete the SlideWiki installation. Your new SlideWiki includes default themes and transitions as well as documentation can be found on **http://YOUR_ROOT_LOCATION/documentation**.

2.3. API Configuration

The ISSUER API can be performed by Badge-it-gadget lite. The installation steps are below:

- Place the badge-it-gadget-lite directory in a public directory on your web host. Ex: www.yourdomain.com/badge-it-gadget-lite.
- In www.yourdomain.com/process-badges/gadget-settings.php make your settings changes and add your badges.
- Set permissions for process-badges/badge_records.txt and the digital-badges/issued/json directory to rwxrwxrwx (chmod 777).
- You may need to update your existing .htaccess file in the public root directory of your host (where your index file is) because your host's apache settings may not recognize .json files (your badge assertions). You'll know this to be the case if the issuer api returns a content type error when you issue a badge. In the existing .htaccess file, or create a new one if you don't have one, and add this line:

    AddType application/json .json.

- In a browser window navigate to www.yourdomain.com/badge-it-gadget-lite/process-badges/index.php.

SlideWiki

Basic Features

3.1. Self-Assessment Activity

Self-assessment in SlideWiki is useful for the users to test their knowledge on topics they are interested in by taking a test. In general, the user can register for a self-assessment from the self-assessment catalogue or he can create his own self-assessment questions and add it to the catalogue and then take the test. When the test is finished, the user will be awarded with score. The score differs from user to user. However when a user has a full score in a test, he is just recognized as a normal user. This may not motivate the user to take more self-assessment or even not to create self-assessment questionnaires for others as a part of knowledge sharing. Open Badges for SlideWiki project will now issue badge for those who have secured full score in a self-assessment activity. 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.

Since this badge is not issued to all users who take self-assessment, this badge will be like a motivation for the user who has secured full score for an assessment.

The following figures show how the user claims his badge when he/she has secured full score in self-assessment.
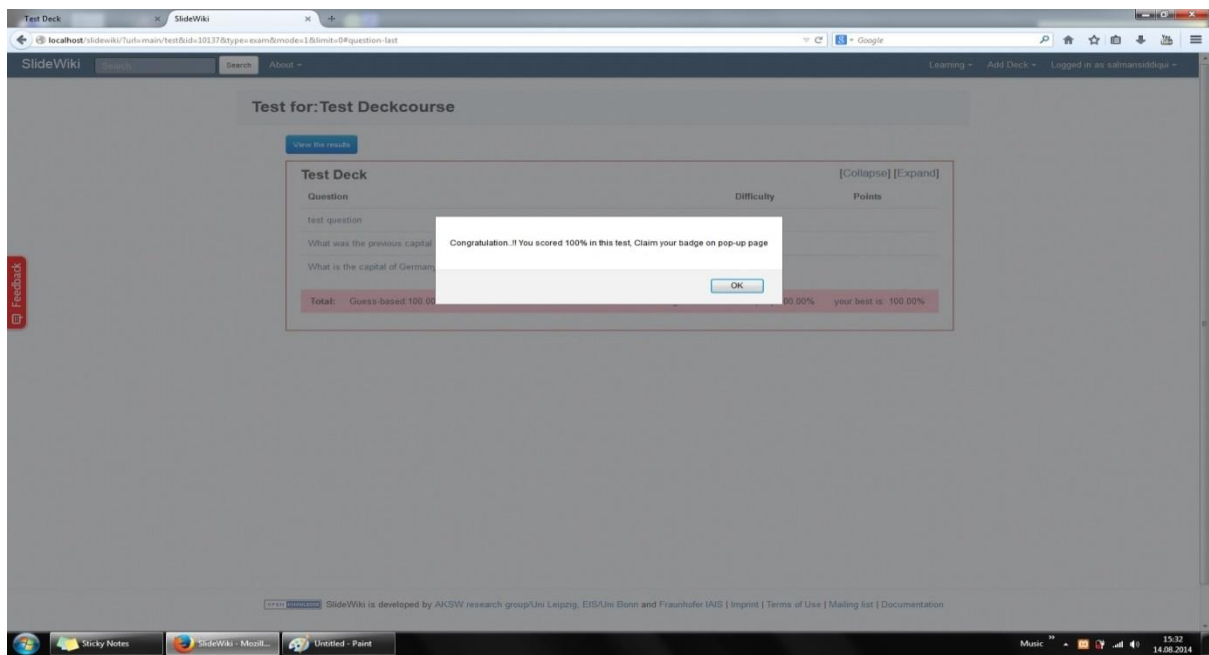
SlideWiki
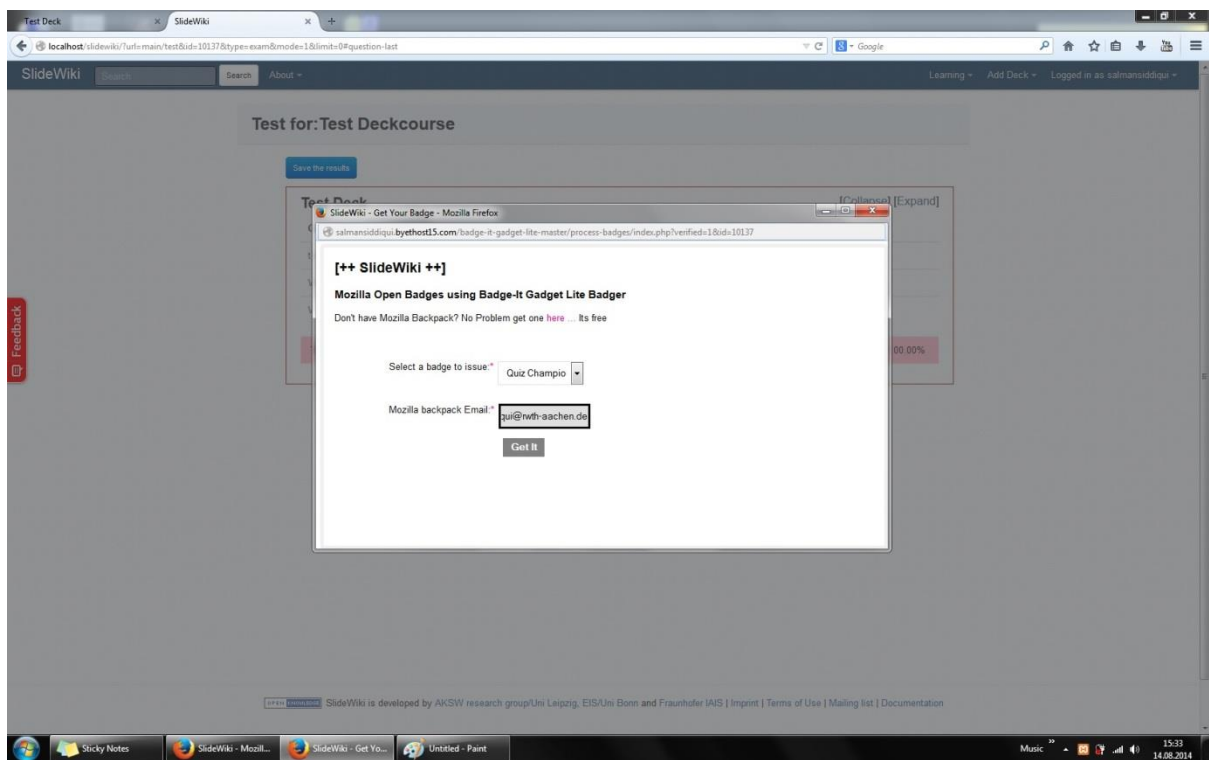
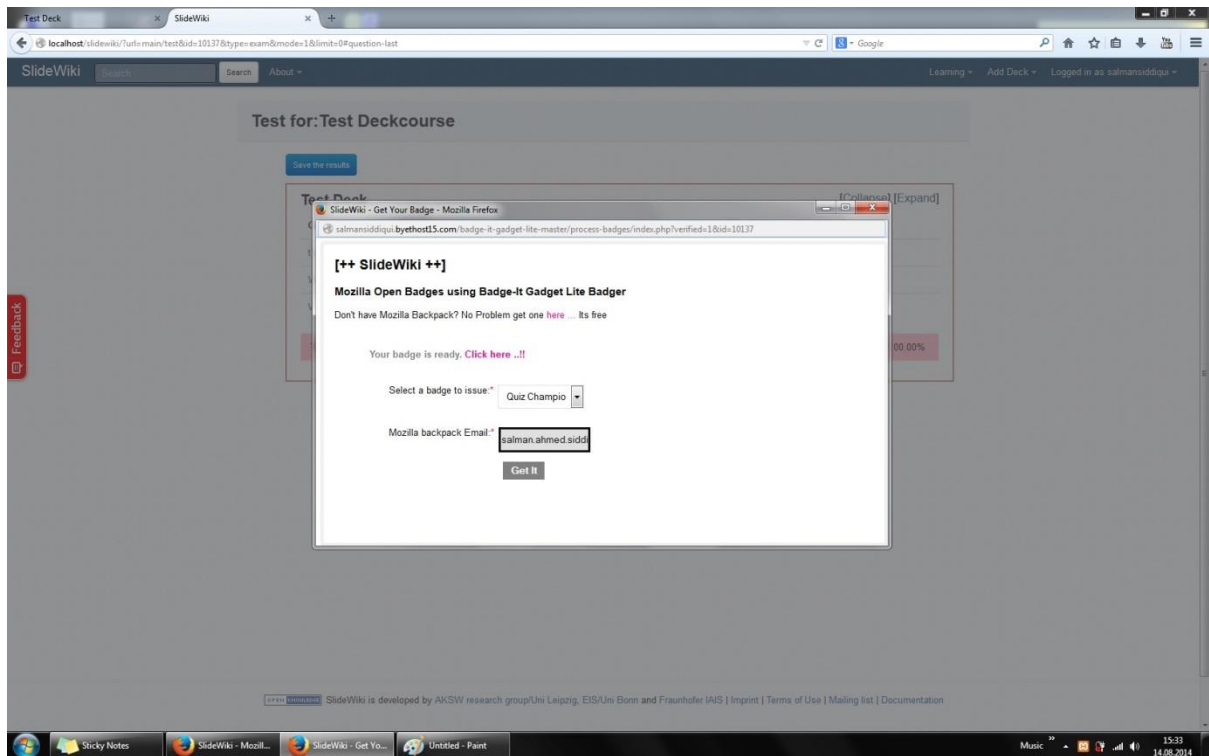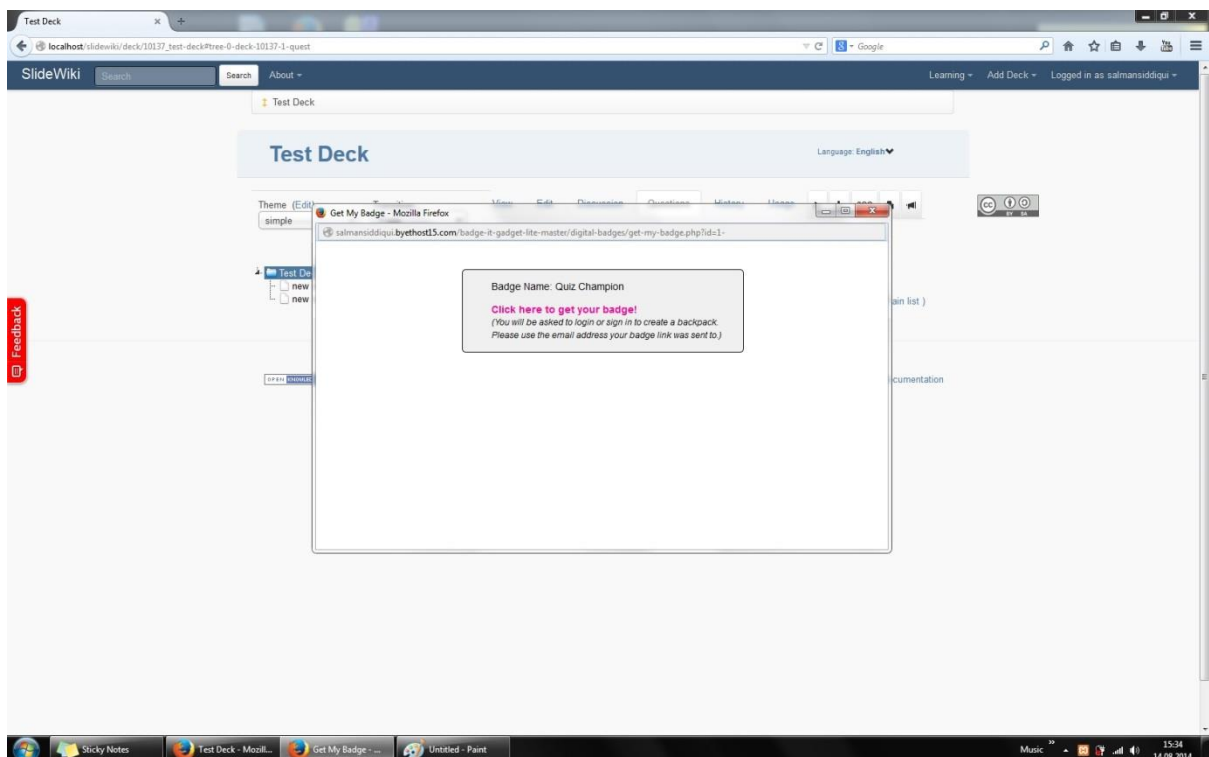*Figure 3.1*

Figure 3.2

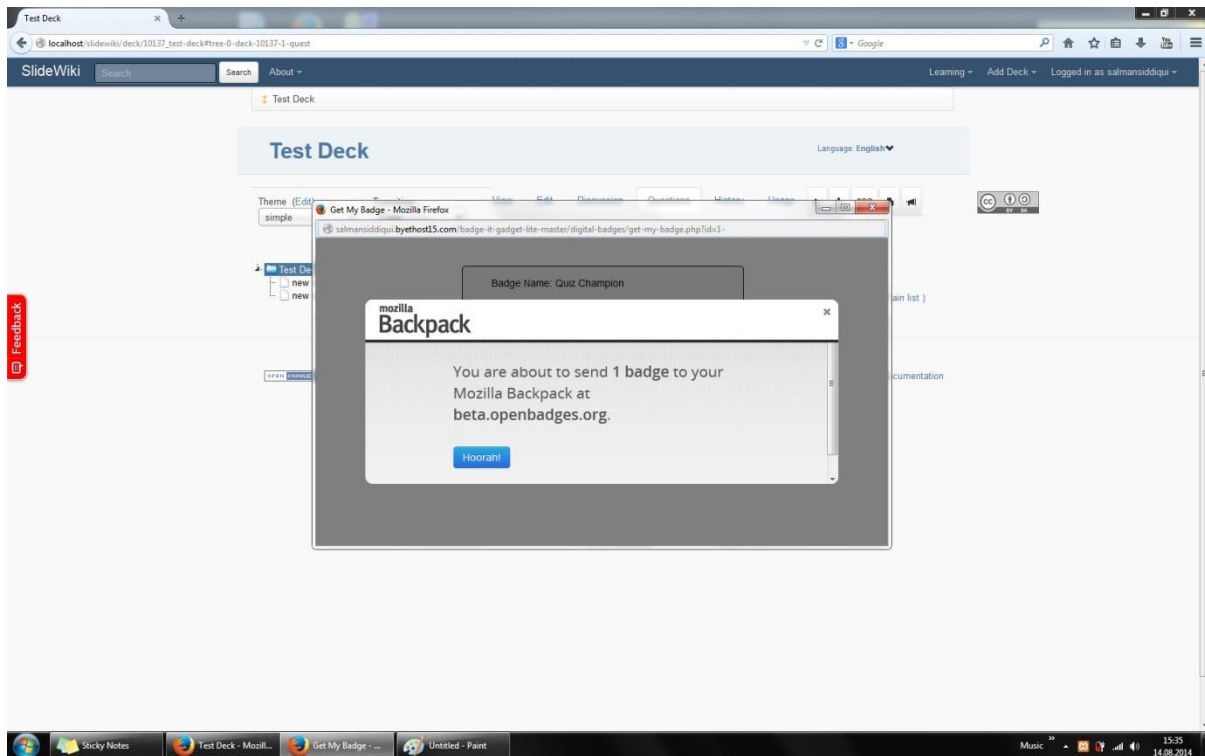*Figure 3.3*

Figure 3.4

Figure 3.5

The detailed explanations about the figures below:

Figure 3.1: When a user secures 100 % score and the number of questions contributed by another user is more than 10, a pop-up congratulation message is displayed to the user by SlideWiki. This pop-up message has an OK button and by clicking it the user accepts the badge.

Figure 3.2: Then the user is directed to another pop-up window where he can select for what he/she is claiming the badge. Also, it asks the user to enter his/her e-mail address for which the user has Mozilla Backpack account.

Figure 3.3, Figure 3.4: Now the SlideWiki is preparing to send the respective badge to user's Mozilla Backpack account. This preparation happens as a background process and it displays as a small message for the user what he/she has to do.

Note: The activities inside Mozilla Backpack are same for Self-Assessment and Translation Activities and hence it is explained in section 3.3.

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3.2. Translation Activity

Translation is also another important activity in SlideWiki. Translation process is carried out by many users in SlideWiki in order to produce deck of Slides for the technical topics which are in other languages. When this activity is recognized, it will motivate the user to translate more slides. There are three types of badges issued for the translation activity. First one is the basic badge, second one is the intermediate badge and the last one is the advanced badge. The basic badge is issued for the users, who have translated at least 50 slides. The users who have translated 100 slides will get the intermediate badge and the users who have translated more than 100 slides will get the advanced badge.

Initially a user will start his translation activity with the count of already translated slides as 0. Once he reaches 50 slides as his count, then the basic translation activity badge is issued by SlideWiki to the user. When the user translates another 50 slides, then the total count will be 100 and he will be issued intermediate translation activity badge. When the user crosses 100 slides as the total count, then he will be awarded advance translation activity badge.

The following figures show how the user claims his advance translator badge when he/she has translated more than 100 slides.
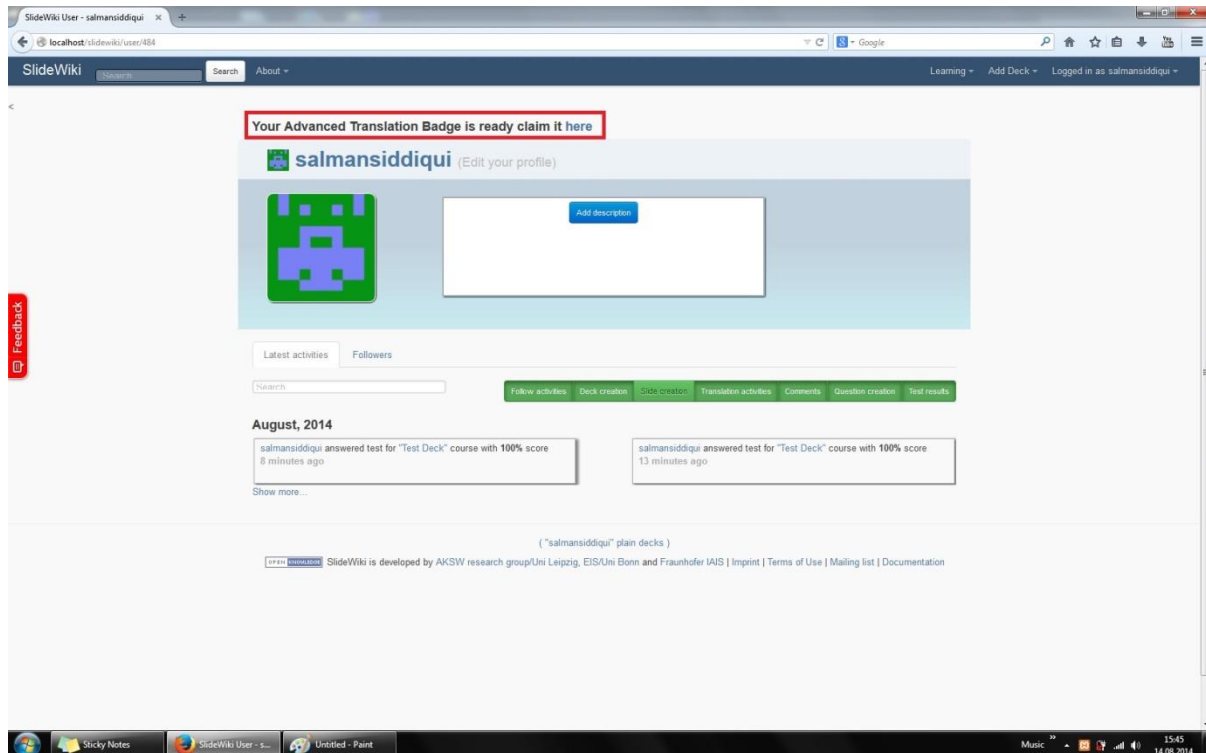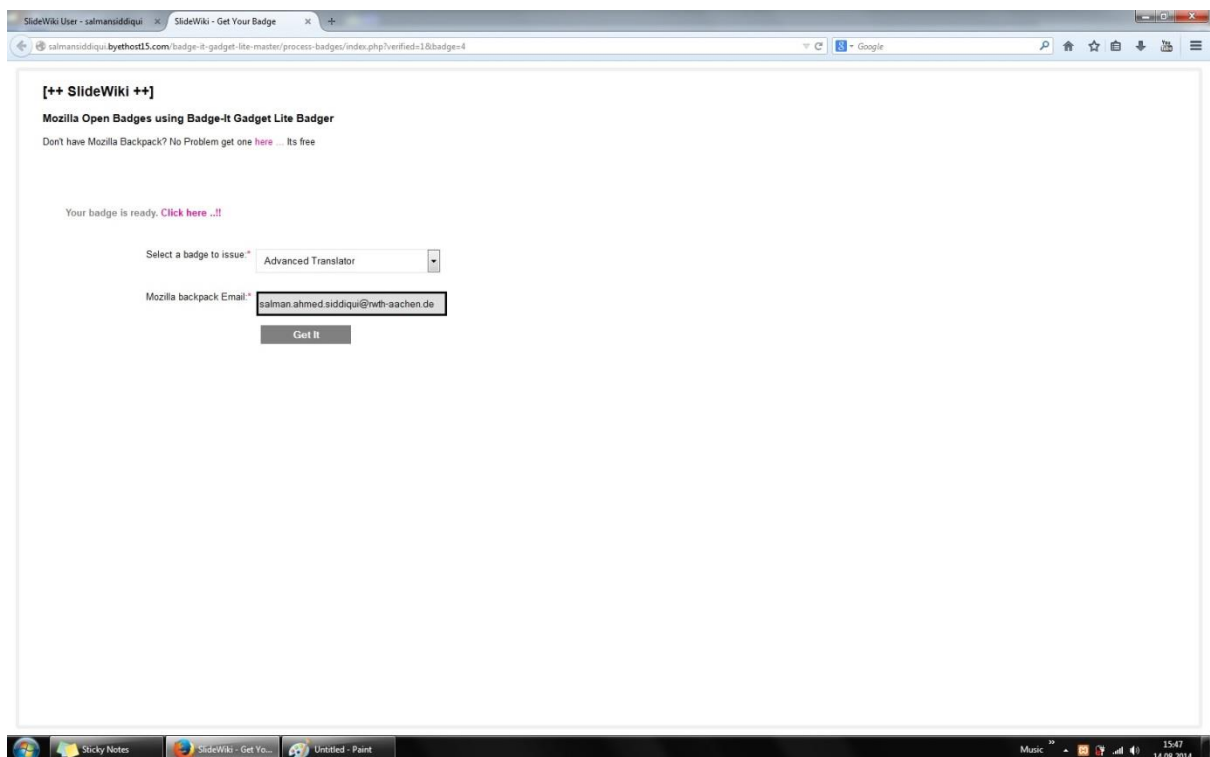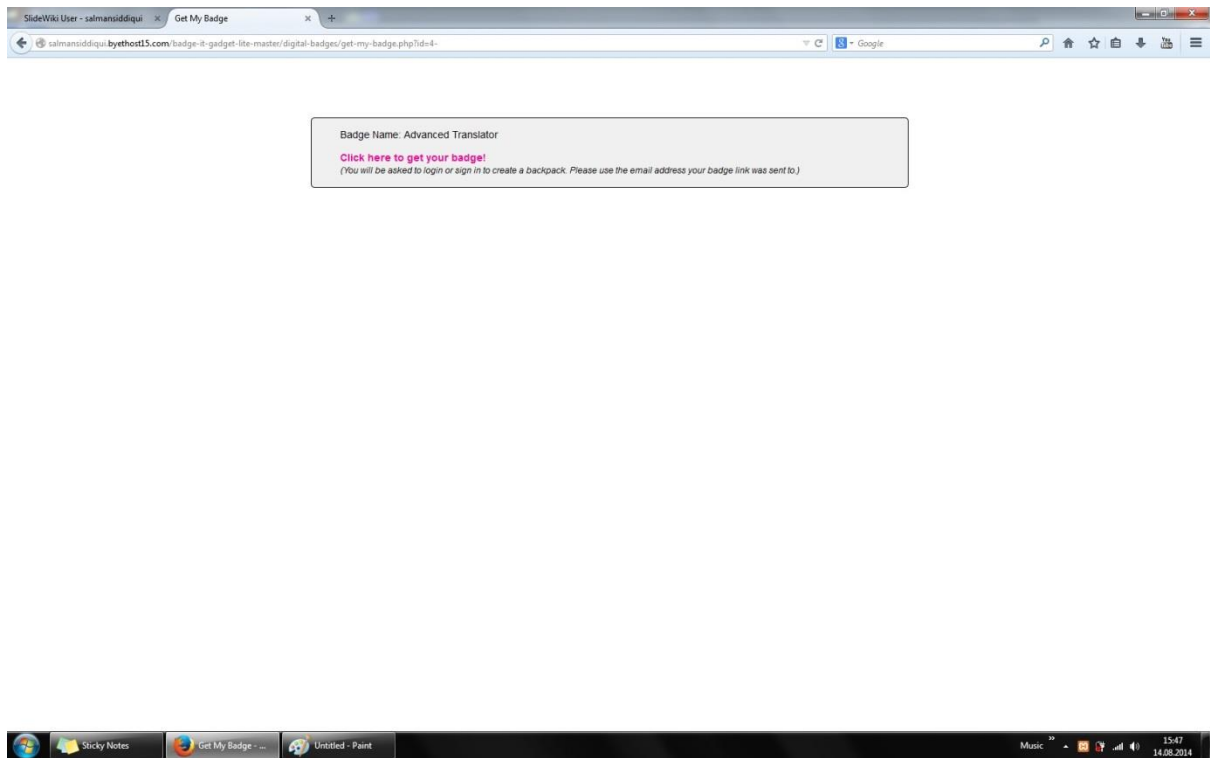

Figure 3.5

Figure 3.6
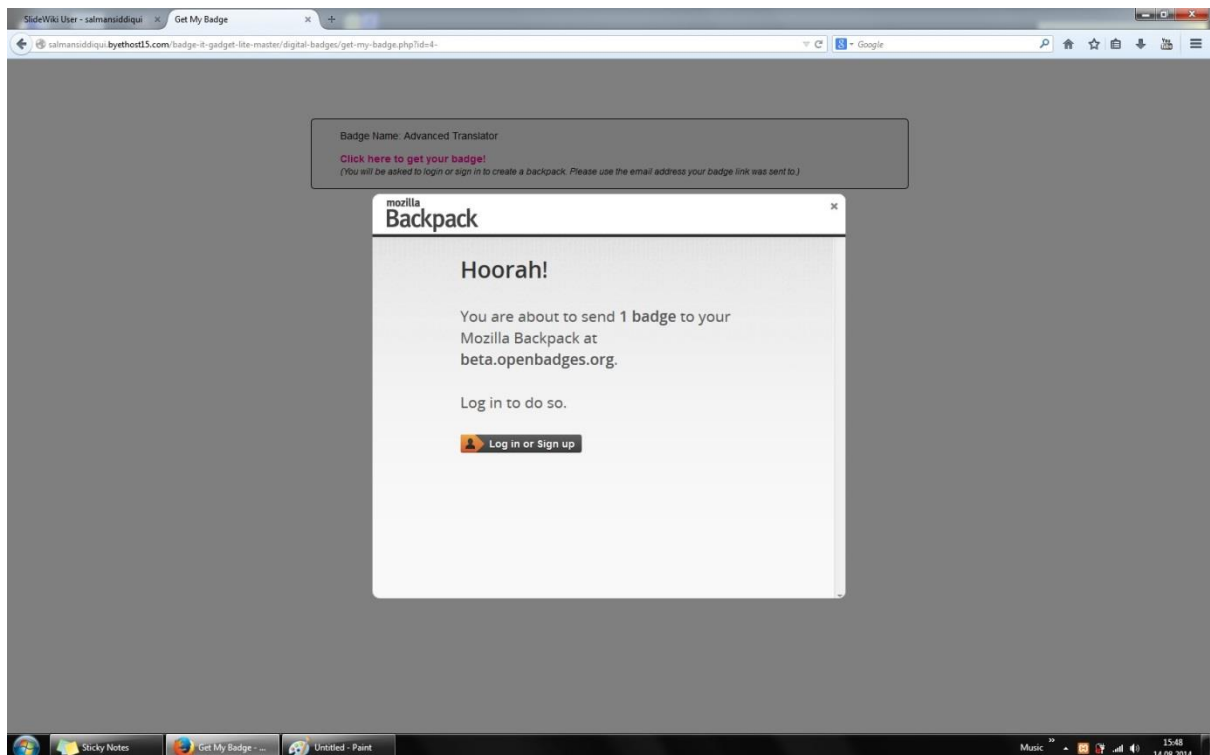

Figure 3.7

Figure 3.8

Figure 3.9

The detailed explanations about the figures below:

Figure 3.5: The user is notified in his profile page whether he has reached a total count for claiming the respective translator badge. Here, the user is notified from SlideWiki with a message that he can claim advance translator page.

Figure 3.6: SlideWiki displays a window, where the user can select the respective translator badge. Also, it asks the user to enter his/her e-mail address for which the user has Mozilla Backpack account. This window has a 'Get it' button and by clicking it the user accepts the badge.

Figure 3.7, Figure 3.8, Figure 3.9: Now the SlideWiki is preparing to send the respective badge to user's Mozilla Backpack account. This preparation happens as a background process and it displays as a small message for the user what he/she has to do.

Note: The activities inside Mozilla Backpack are same for Self-Assessment and Translation Activities and hence it is explained in section 3.3.

3.3. Inside Mozilla Backpack

3.3.1. Connecting the user's Mozilla Backpack account

Once the SlideWiki is ready to send the badge to the user's Backpack, it will be prompt the user with the Mozilla Backpack login page. The following figure explains it well:
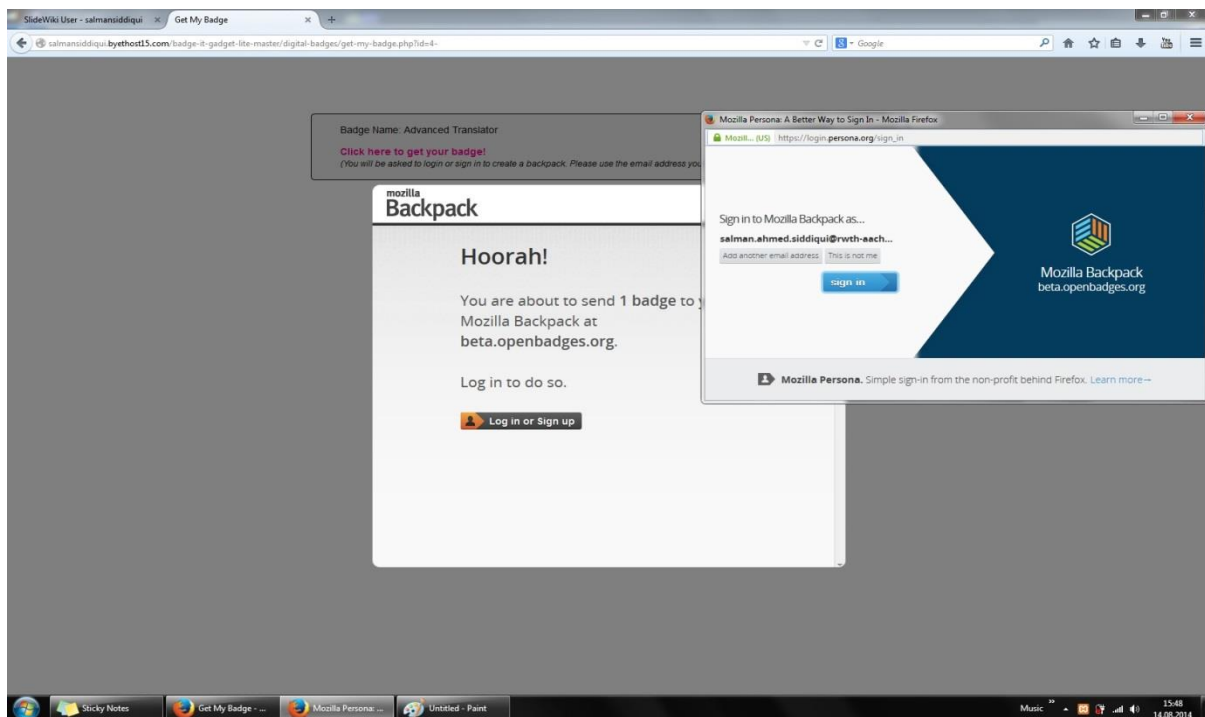

Figure 3.10

SlideWiki

3.3.2. Verifying and Accepting the Badge

Once the Mozilla Backpack of the user has been connected, then it displays the badge with its metadata. The metadata of the badge means, the information about the badge. The information includes issuing criteria, issuer name, badge name and badge description. The user can verify the metadata of the badge. Along with this, it prompts the user with a Yes or No question 'Accept the badge?' Since the metadata about the badge is correct, the user accepts the badge by clicking 'Yes' button. After that, a window confirming that the badge has sent to Mozilla Backpack is displayed with 'Thanks' button. These explanations in figures are shown below:
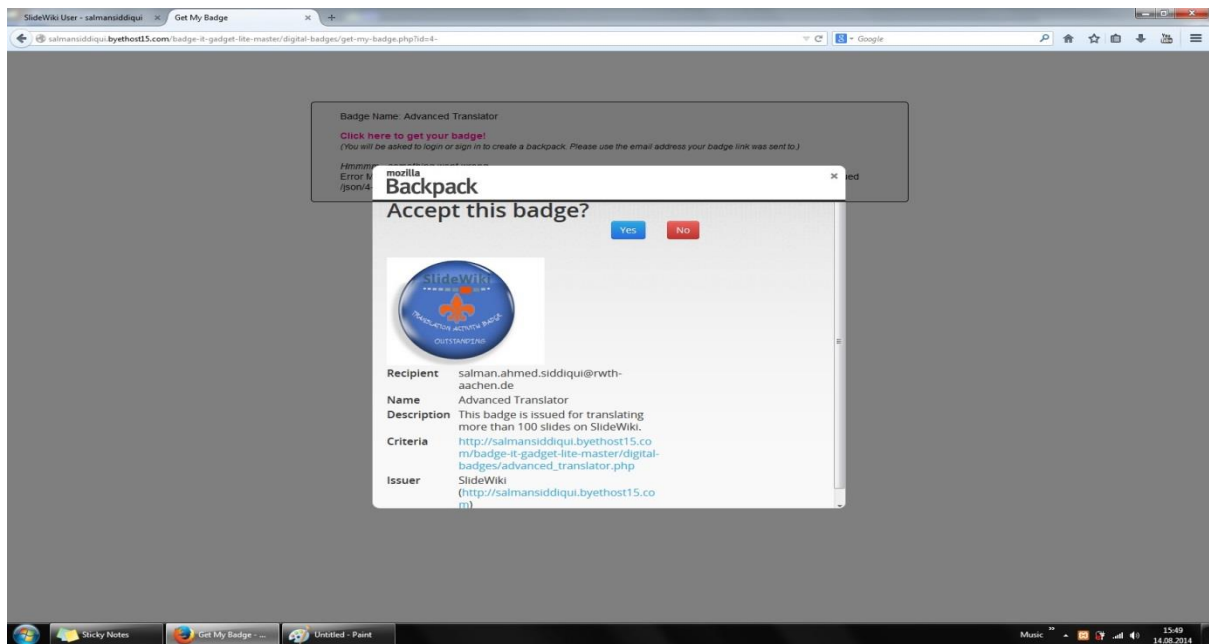
Figure 3.11
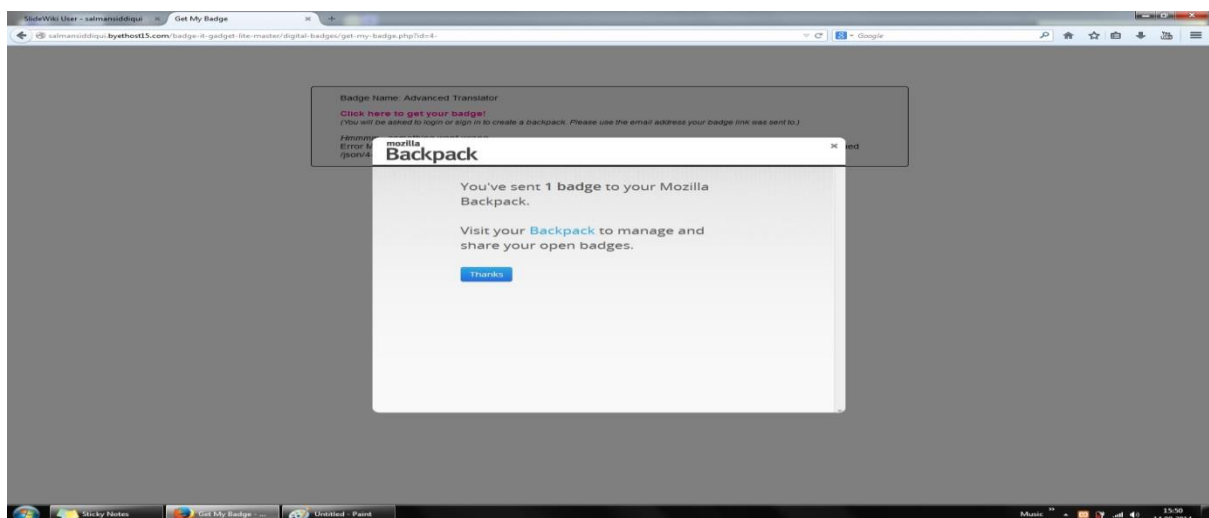
Figure 3.12

3.3.3. Viewing the Badges inside Mozilla Backpack

The following figure shows how the badges will look inside the 'Badges' menu of the user's Mozilla Backpack account
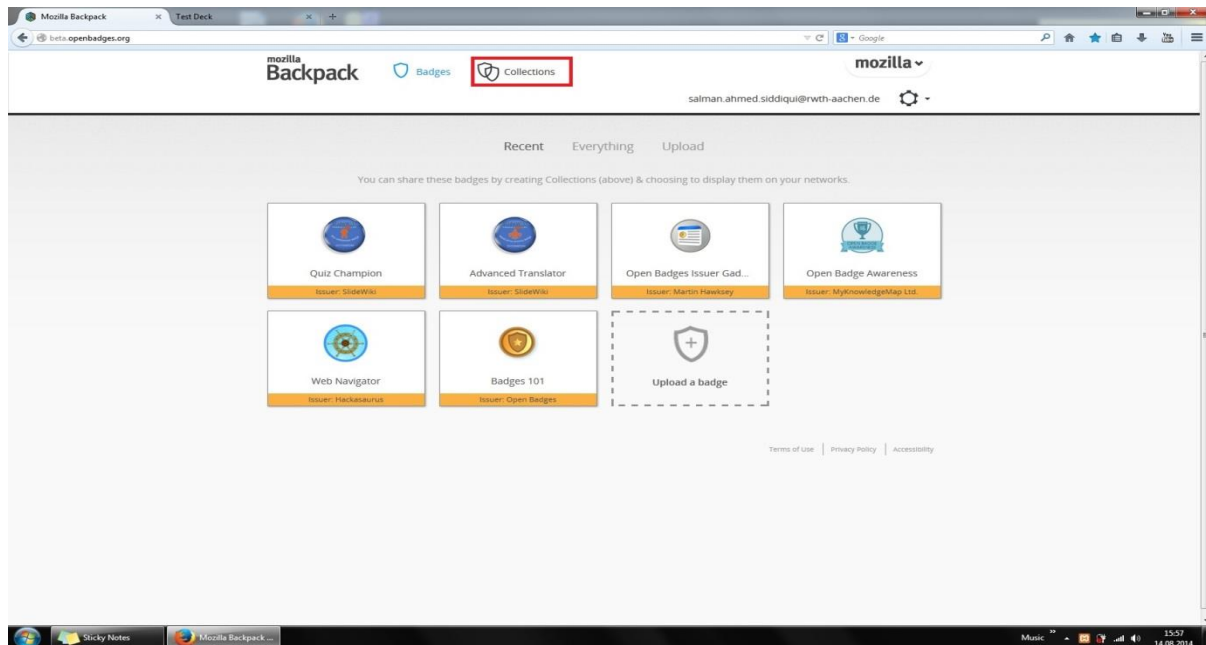
Figure 3.13

3.3.4. Grouping the Badges in Mozilla Backpack

Grouping of Badges is done inside Mozilla Backpack in order to import the badges into the SlideWiki. The badges have to be imported from Mozilla Backpack to SlideWiki database in order for the user to display his earned badges. In Mozilla Backpack click 'Collections' menu which is next to 'Badges' menu. The window appears as shown in figure 3.14. Now drag and drop the respective badges to display in the section provided. Now you can see a checkbox pubic as shown in figure 3.15 and it should be checked. After this process, now the user from SlideWiki can import the badges and make it display.
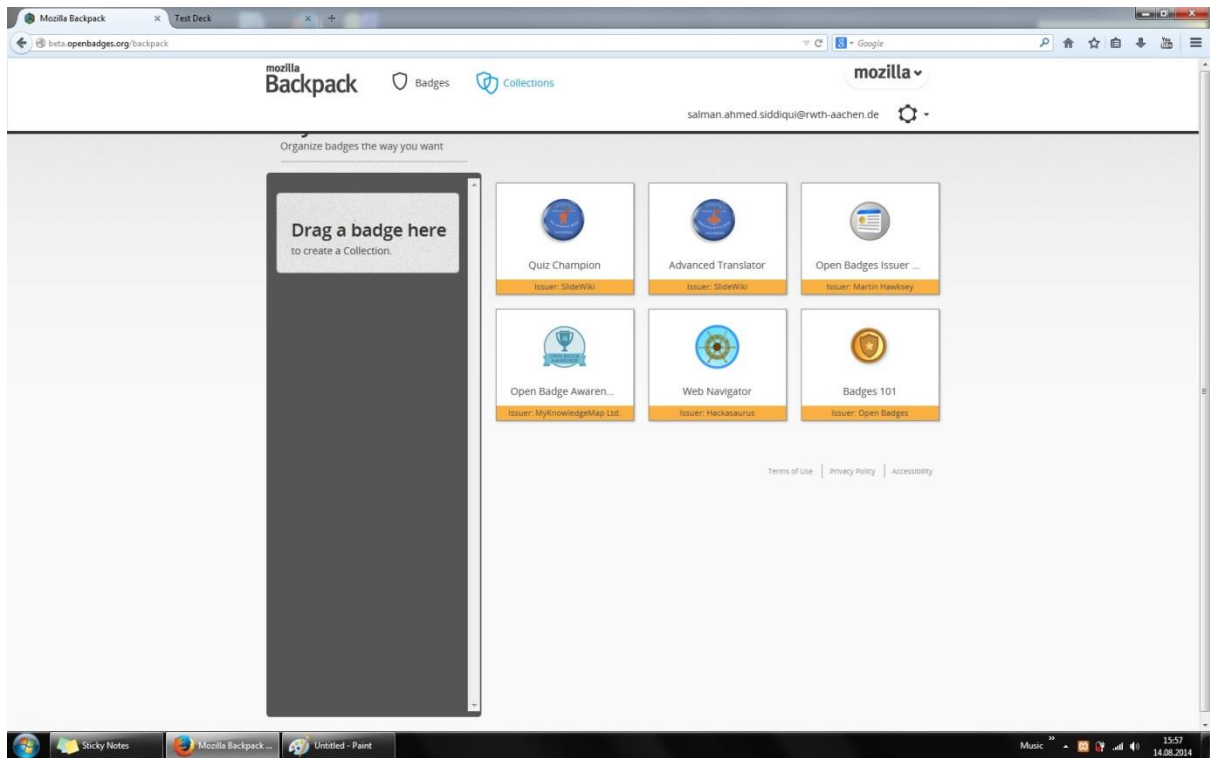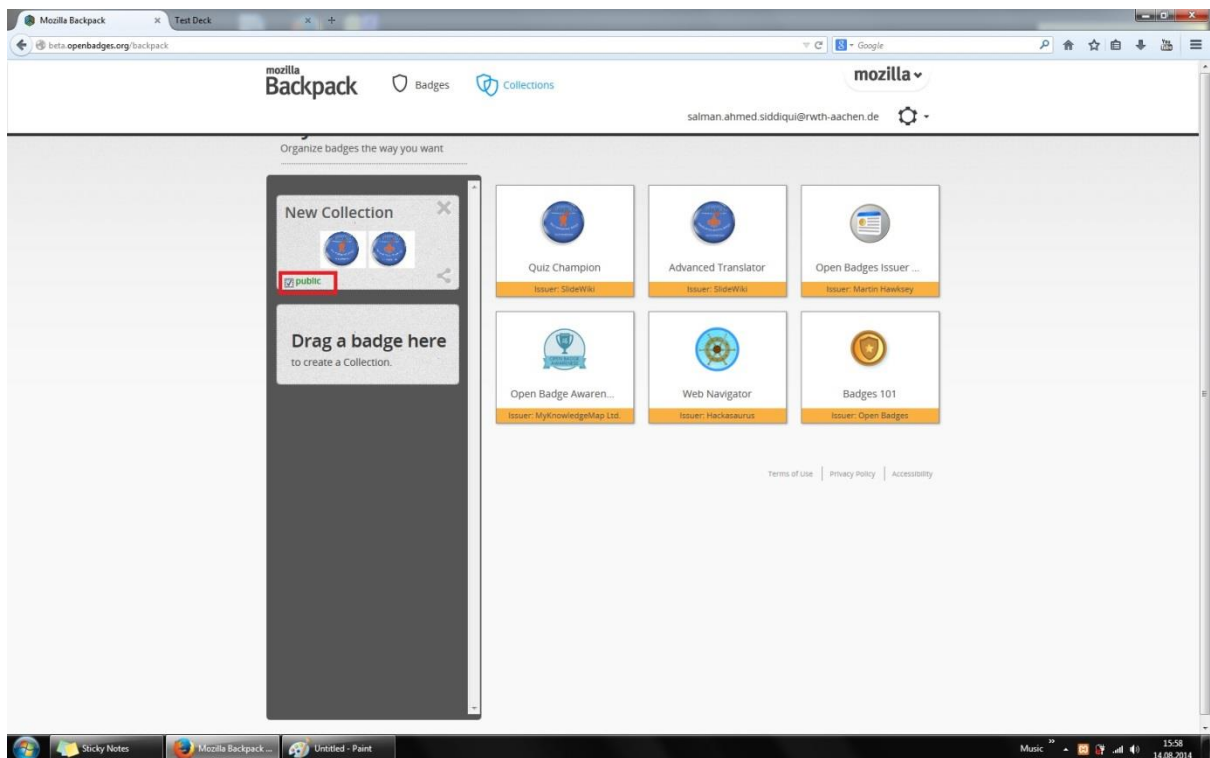
Figure 3.14

Figure 3.15

3.4. Importing Badges to SlideWiki

Importing badges from Mozilla Backpack to SlideWiki is important in order to display the badges in user's SlideWiki profile. Go to the 'Import Badges' menu under Profile as shown in figure 3.16. Then SlideWiki prompts for the user's Mozilla Backpack account of the user as shown in the figure 3.17 in order to import the badges. The next figure 3.18 shows that SlideWiki allows the user to select the badge group which needs to be imported. Then as shown in figure 3.19, the process happens in the background and the user is directed to the display badges page as shown in figure 3.20 with the badges present in the group.
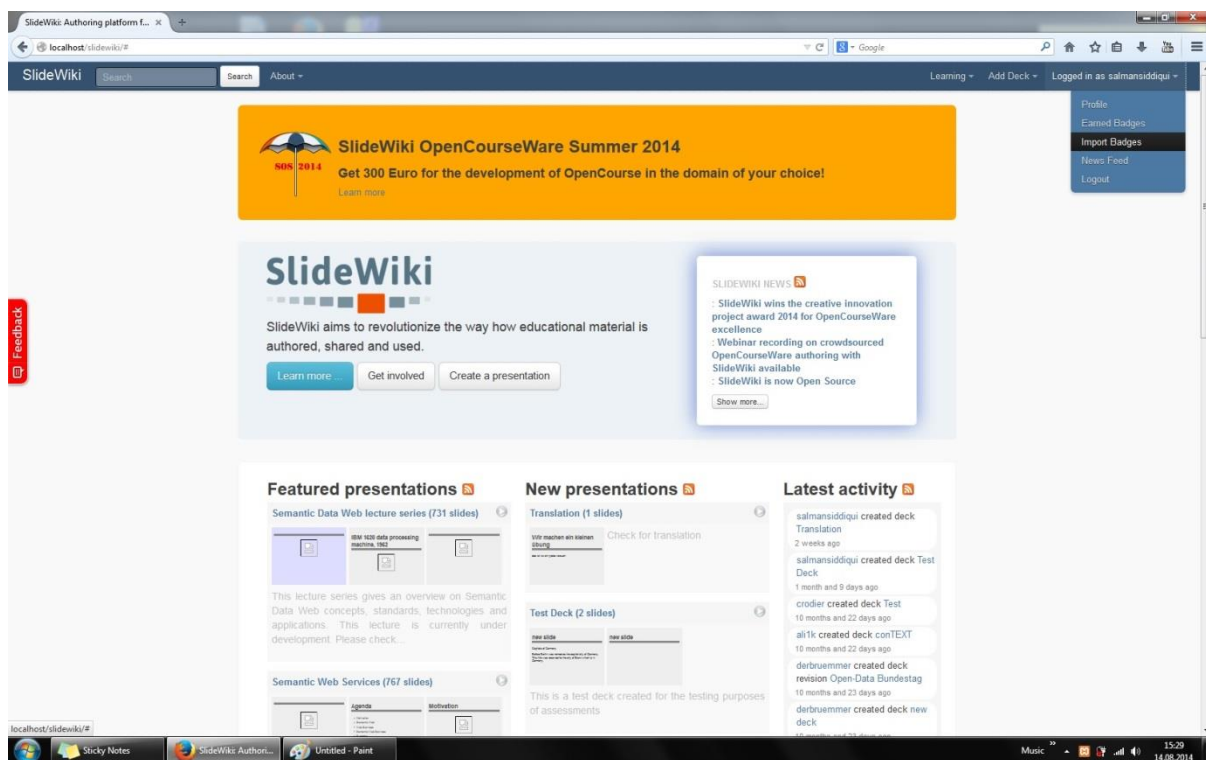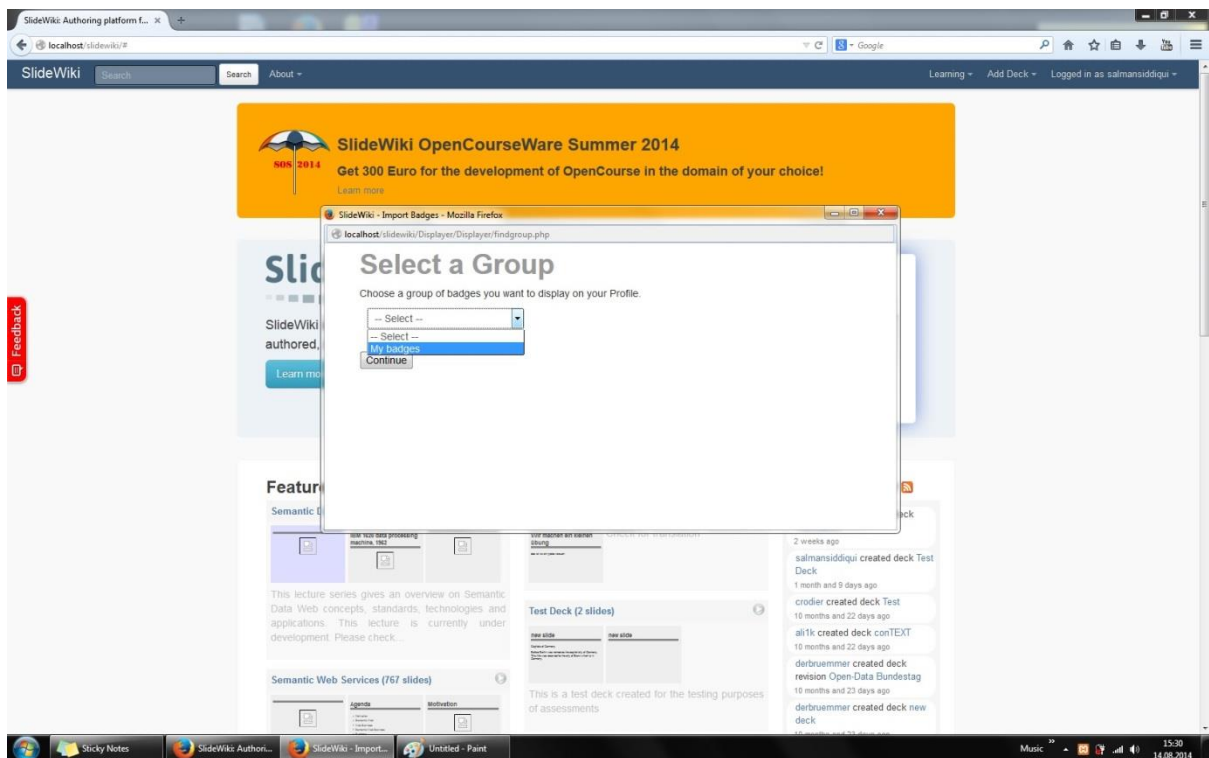

Figure 3.16
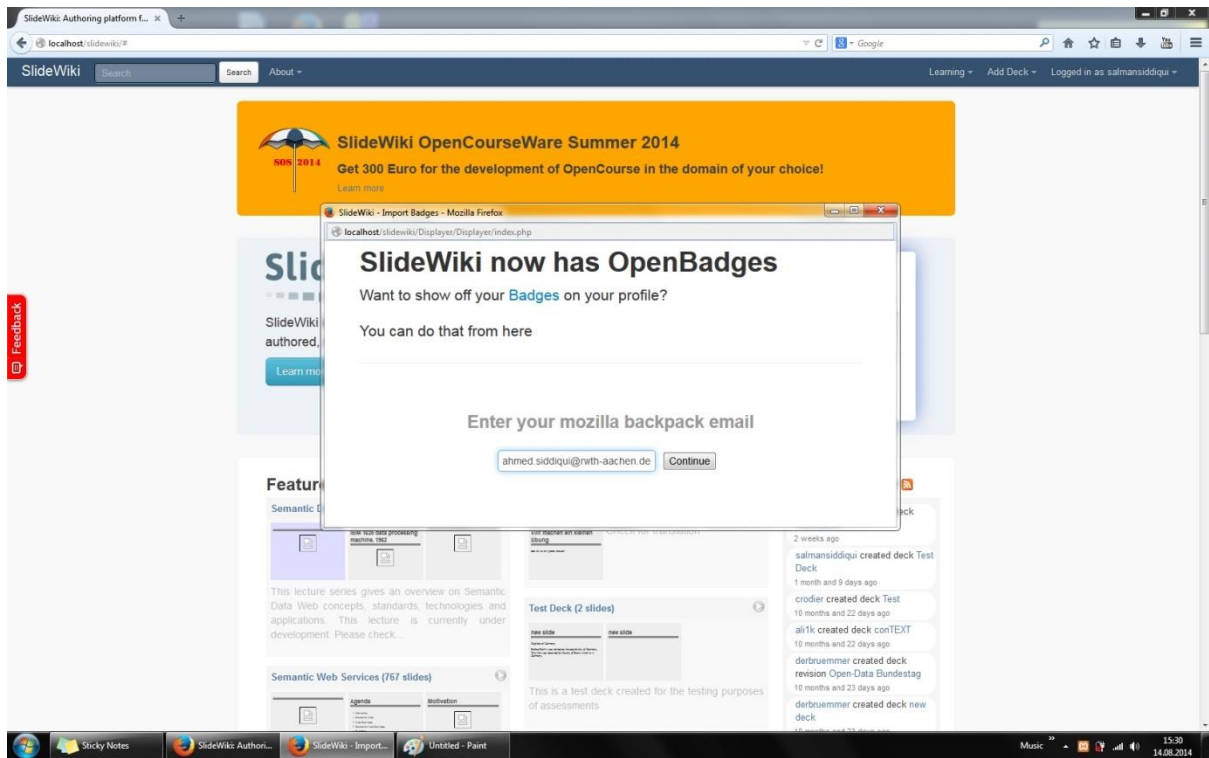
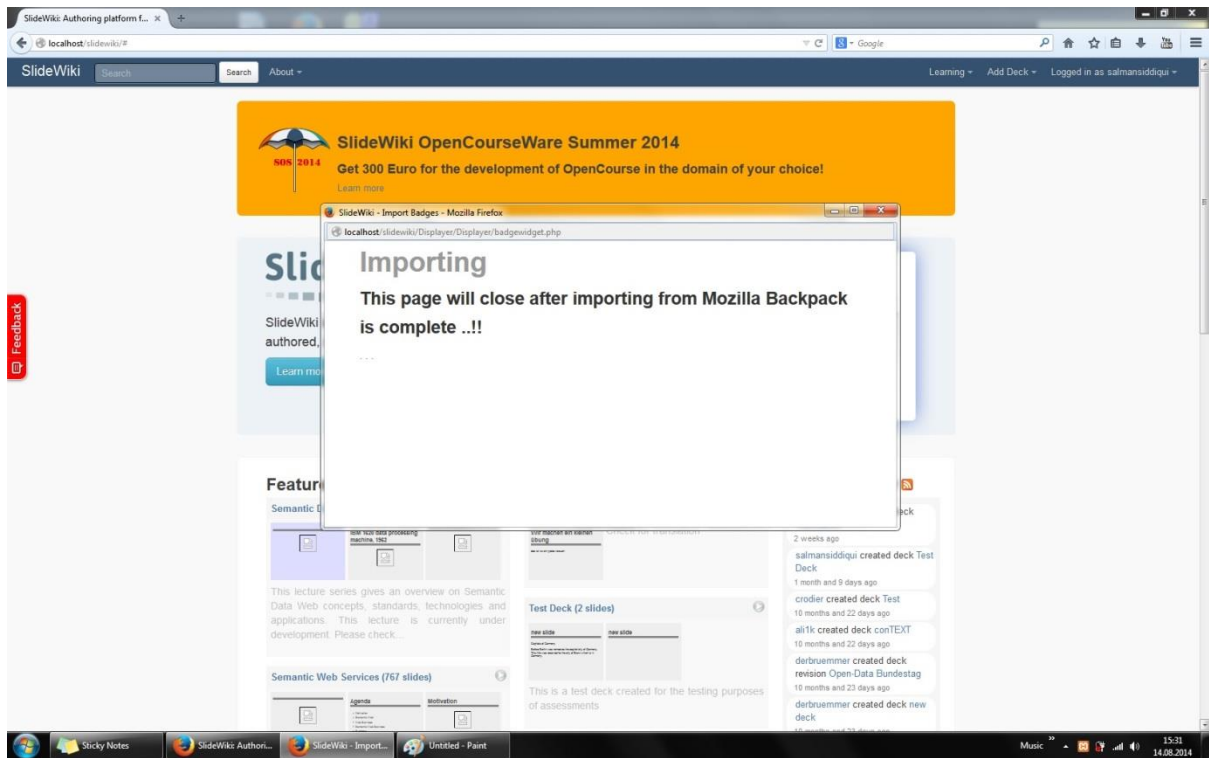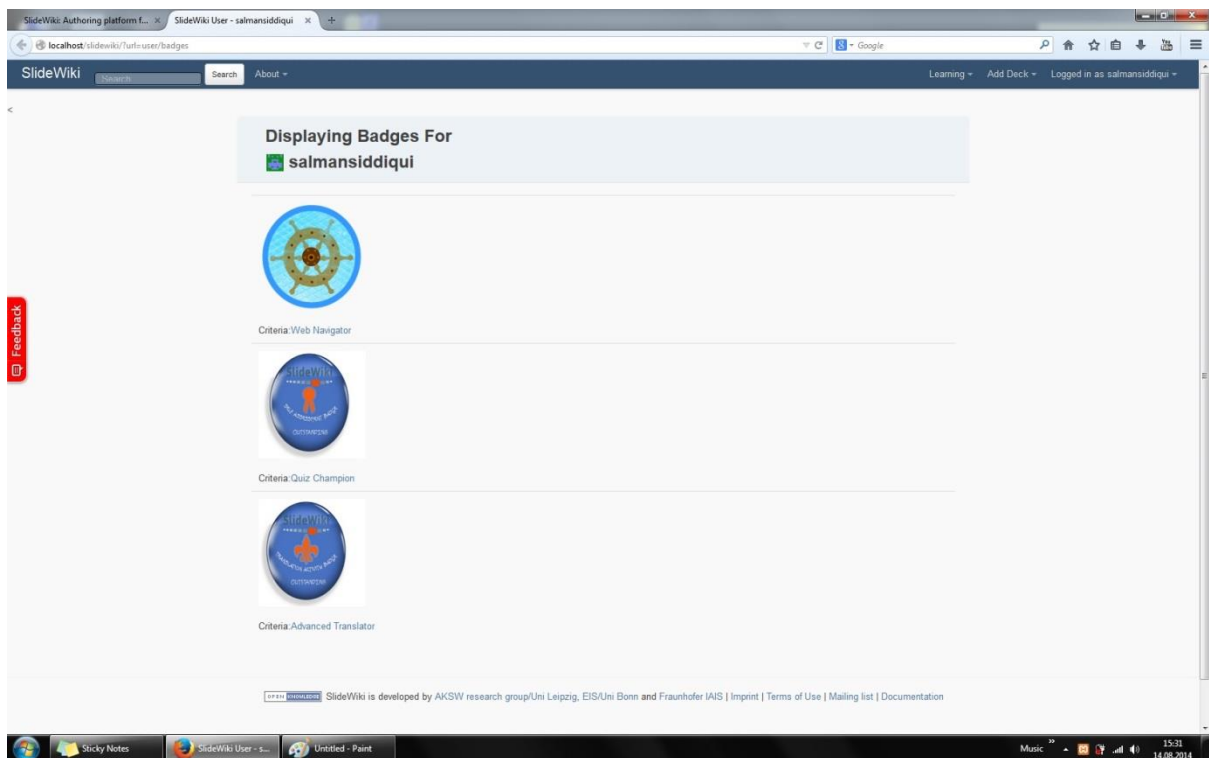*Figure 3.17*

Figure 3.18

Figure 3.19

Figure 3.20

3.5.   Viewing Earned Badges in SlideWiki

The new option 'Earned Badges' under Profile allow the user directly to view the badges that has been already imported from Mozilla Backpack. The following figures describe it:
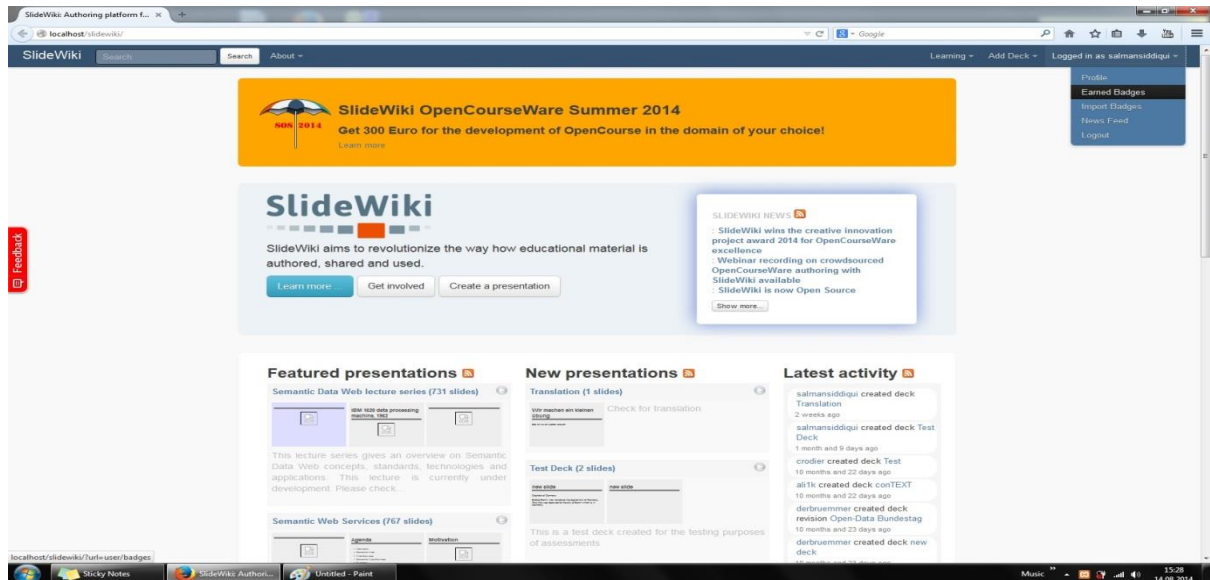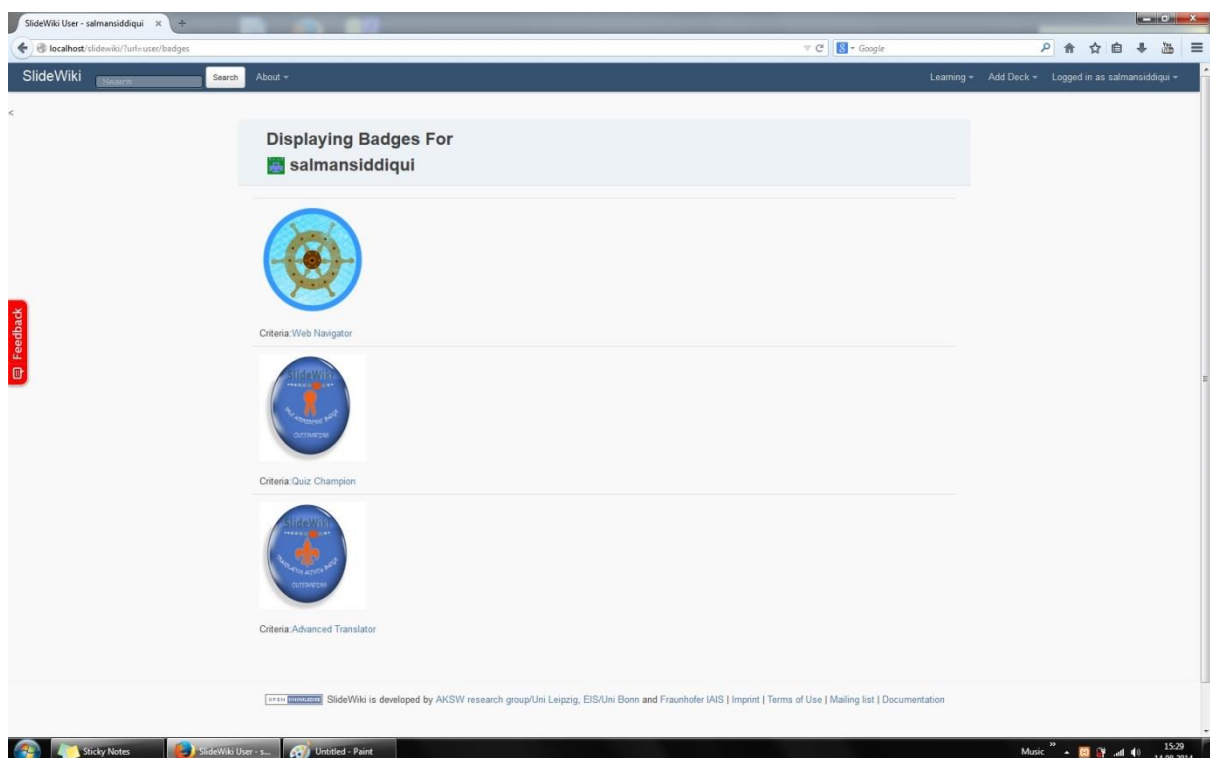

Figure 3.21

Figure 3.22

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