



User Manual and Software Documentation (Offline use)

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1.1 Offline mobile app

The menu of the mobile app provides the capability to download materials for offline use. This can be re-synchronized each time the user has access to the Internet, but the materials are downloaded in the device so that they can be read offline even without access to the Internet.

In order to access the offline mobile app the user has to select the menu option “Offline Use” from the main menu (Figure 1).

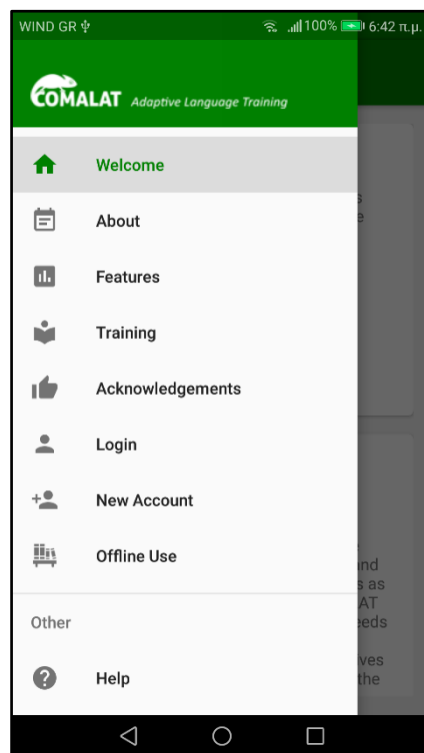


Figure 1: Selecting “Offline Use” from the main menu

When the application launches it will ask the users’ permission to use the storage in the mobile phone in order to store the files that will be downloaded from the server for offline use. This is depicted in Figure 2.

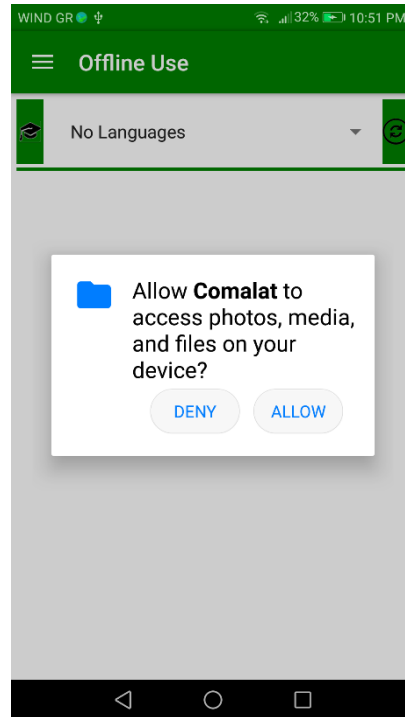


Figure 2: Storage usage permission provided by the users

Then the user is asked to choose the language from a menu (Figure 3). The languages appearing in this menu are the languages for which the administrator has uploaded offline materials.

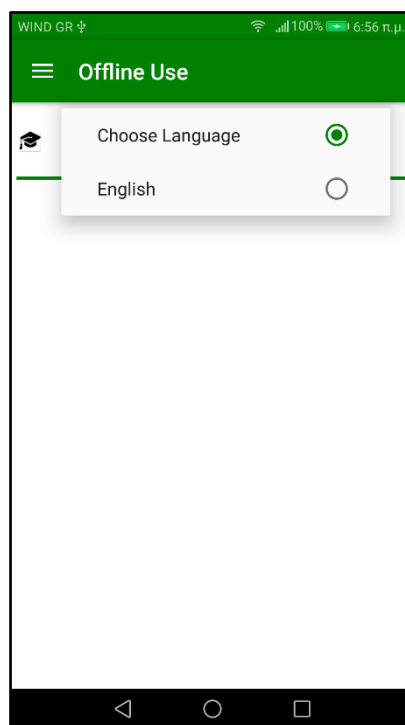


Figure 3: Menu from which the users choose the language to download materials for

The offline materials are uploaded in the dedicated web application for the offline mobile app. Notice that this is a separate web application that we have implemented distinct from the Sakai LMS tools. Administrators

can find usage instructions for this web application in the following Section 1.1.1.

Notice that if no languages are available for download in the offline server, then a message will appear that will notify the users, as can be seen in Figure 4.



Figure 4: No available languages message

After the user has selected the language then all the available levels, courses and units for this language appear as can be seen in Figure 5. Of course this requires that the users are connected to the Internet.

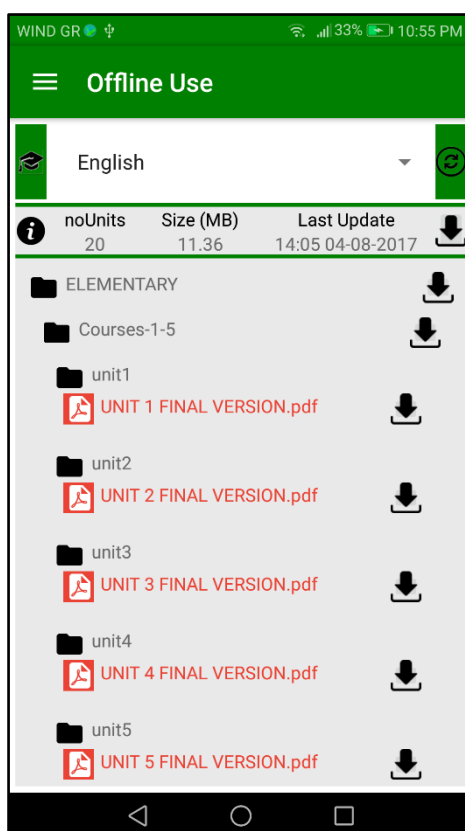


Figure 5: Display of available language materials for offline use

Notice that if there is no Internet connection available then the languages and the parts of the languages that have been already downloaded will be displayed for selection and in the contents area, respectively. For example in Figure 6 we can see that the user has downloaded in the device only Unit 1 and Unit 2 from the English language.

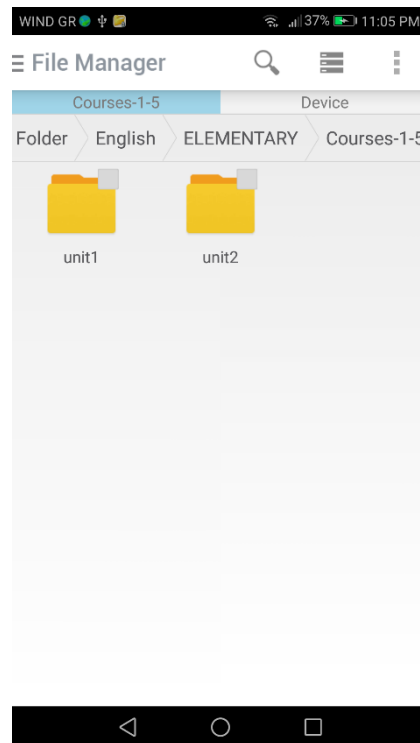


Figure 6: Units saved already in local device storage

Since only materials from the English language were downloaded and only specific units from the English language, if the user is disconnected from the WiFi the application will only provide the user with the ability to select English and it will only display the locally available parts when the user selects English, as can be seen in Figure 7.

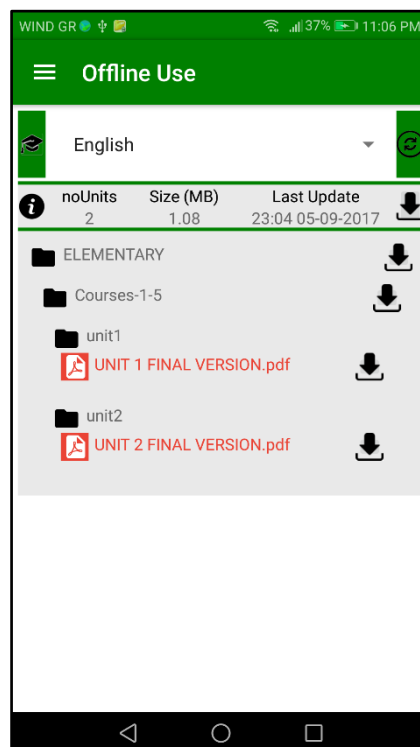


Figure 7: Offline materials available for selection and viewing

In addition, if the mobile device is connected to the Internet, but the server providing the offline materials is unavailable at that time, the learners will see the message “Server unreachable. Load local files” as depicted in Figure 8.

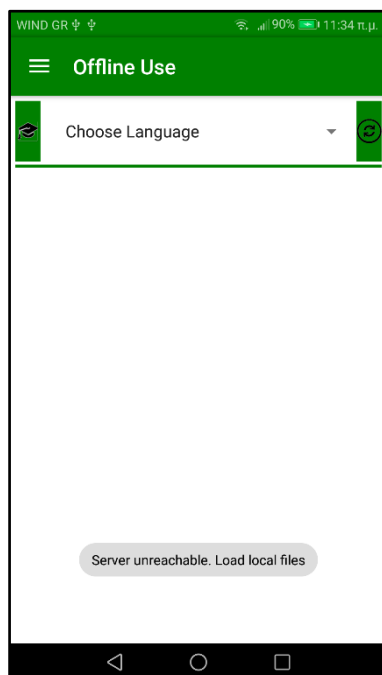


Figure 8: Server unreachable message

Then users can select one of the languages for which they have already downloaded materials (Figure 9) and the locally available items for the selected languages will be displayed (Figure 10):

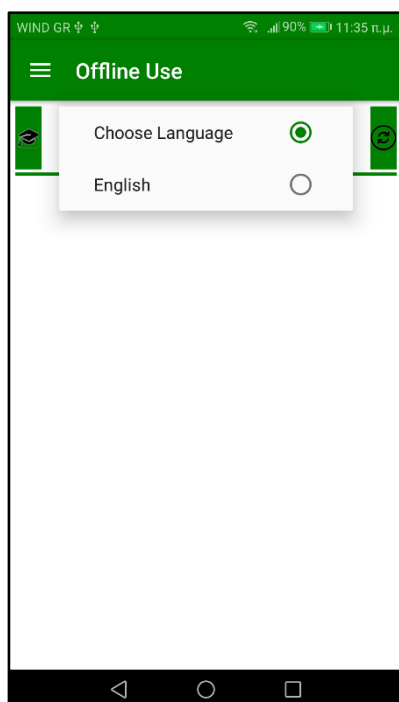


Figure 9: Locally available languages selection

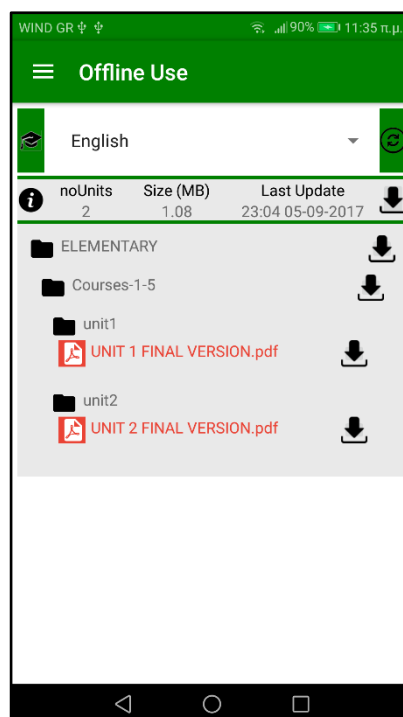


Figure 10: Locally available languages materials

When users are online they can click the download icon for the whole language (next to the “Last Update” date in Figure 5). The can also click to download the whole level, a courses group or just one unit. As users download the materials, various messages appear to inform them as can be seen in Figure 11.

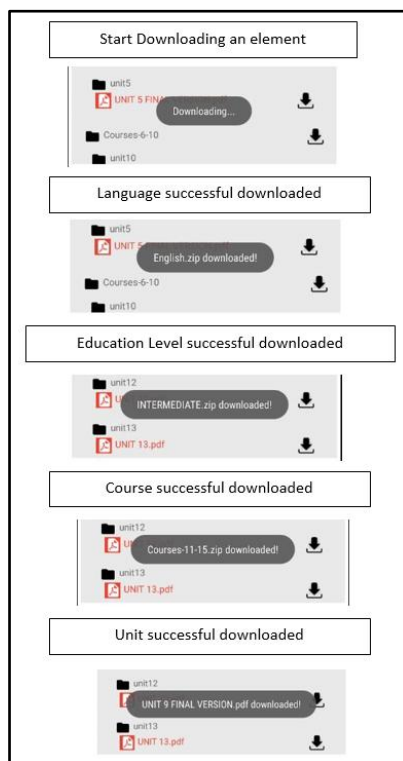


Figure 11: Messages for downloads

After the users have downloaded an element and this is stored in the local device storage, they can then open it by clicking on the file’s name. As can be seen in Figure 12, all the available options for opening a PDF file in user’s device will be provided. The user must choose one to open the file and read its contents.



Figure 12: Opening the PDF file for a downloaded language unit

Finally, users view the file contents as can be seen in Figure 13.

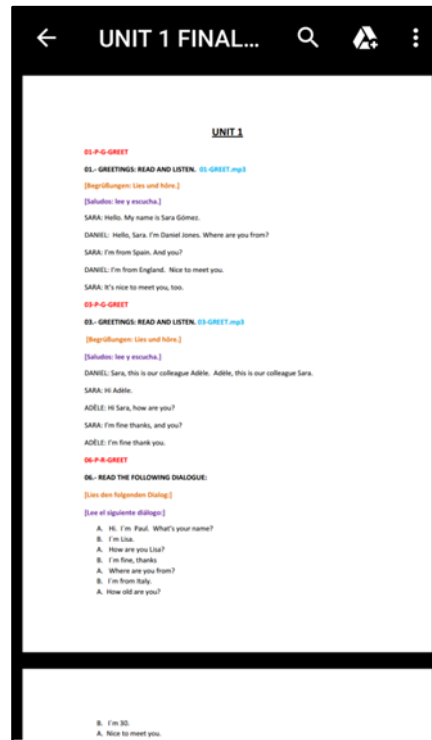


Figure 13: Reading the offline materials

When the network is available, the users can synchronize with the server in case some of the materials have been updated and/or new languages have become available, or simply to view materials available for downloading that they have not downloaded yet in their devices. The synchronization is achieved with the button next to the language selection menu.

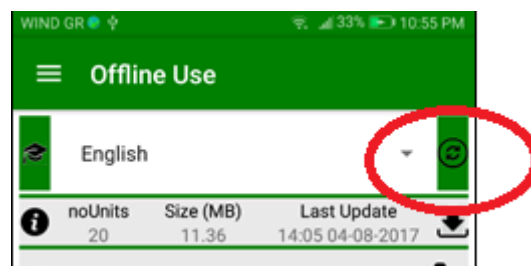


Figure 14: Synchronization button

1.1.1 Dedicated web application for the offline mobile app

For the purpose of the offline mobile app a separate web application has been developed which is not a Sakai tool. This separate application allows the administrator to upload materials that can be downloaded from the offline mobile app for offline use. The following instructions are intended for the Administrator of the offline mobile app web component.

In order to access all the features (Upload, Update and Delete) we will need to log in.

Login

Username or password is incorrect for testing username: admin && password: admin





[Login ↗](#)
[Register\(?\)](#)

Figure 15: Logging in the web application for the offline mobile app

After logging in If there is no lesson, a message will appear.

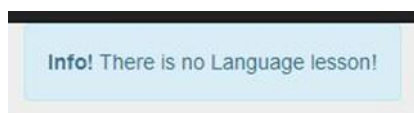


Figure 16: Message appearing when there are no language lessons

In any case the users will be allowed to upload the offline material for a new language. The online material must be provided in a zip file format. The zipped folder will contain the levels, the courses and the units.


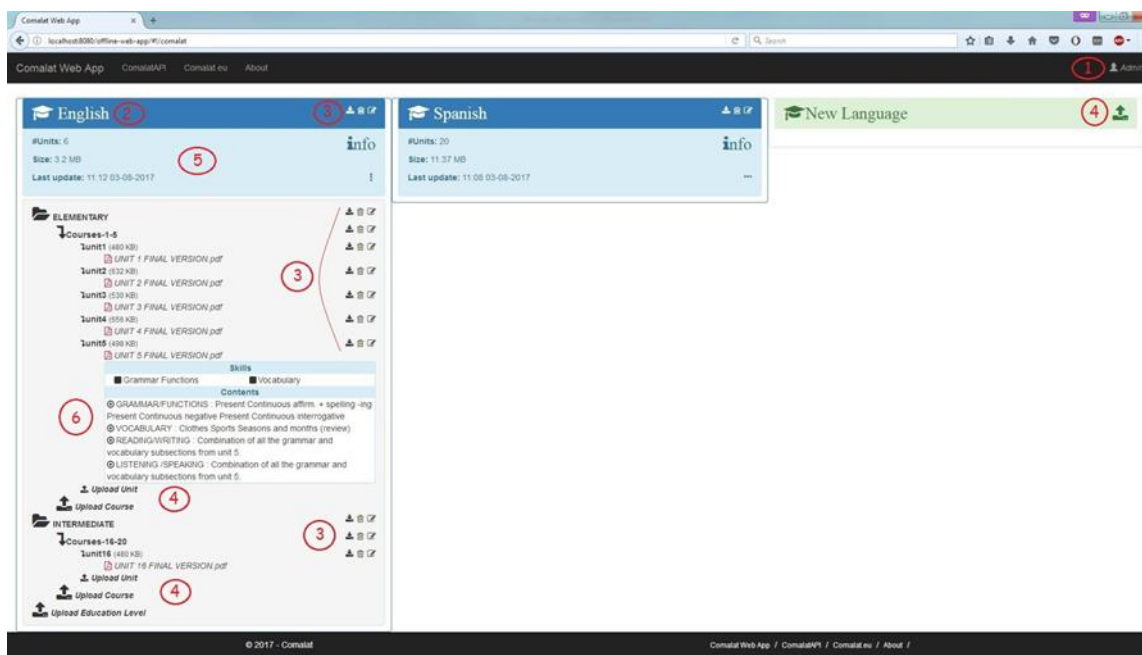


Figure 17: Uploading a new language

After uploading the new language the contents are appearing in the browser:

1. Display name / logout
2. Display language name
3. Download, Delete and Update actions
4. Upload action
5. Information about language #Units: number of units, Size: total size(MB) and Last Update.
6. Information about pdf file. Skills: [Grammar Functions (G), Vocabulary (V), Reading Writing (R) and Listening Speaking (L)].



The lessons are unzipped in the server and are kept in a specific lesson folder, which resides in the user_directory /ComalatFolder/comalat Languages.Contents are extracted from a word file that should be provided in each subdirectory containing the units (i.e. the lessons), like it is depicted in Figure 18.

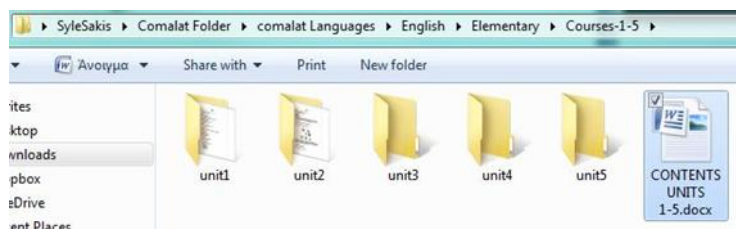










Figure 18: Contents of units

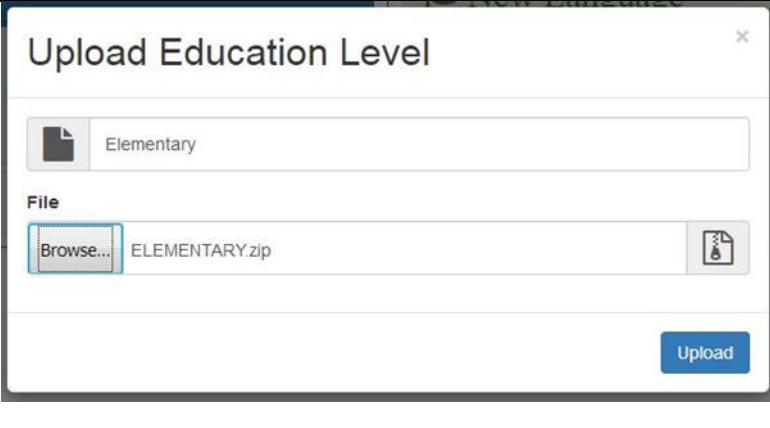
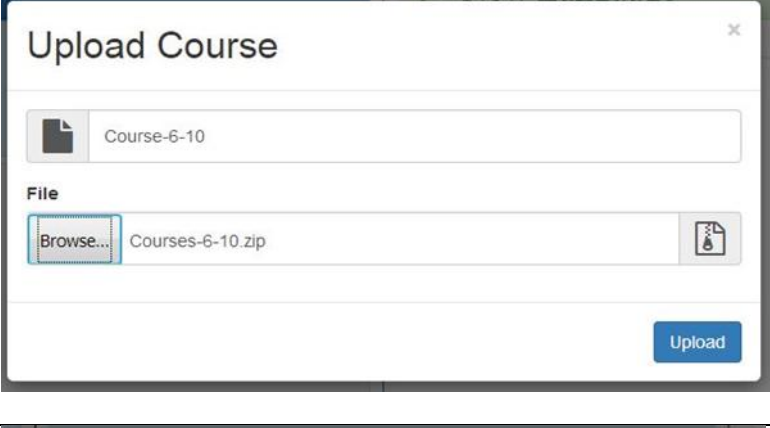
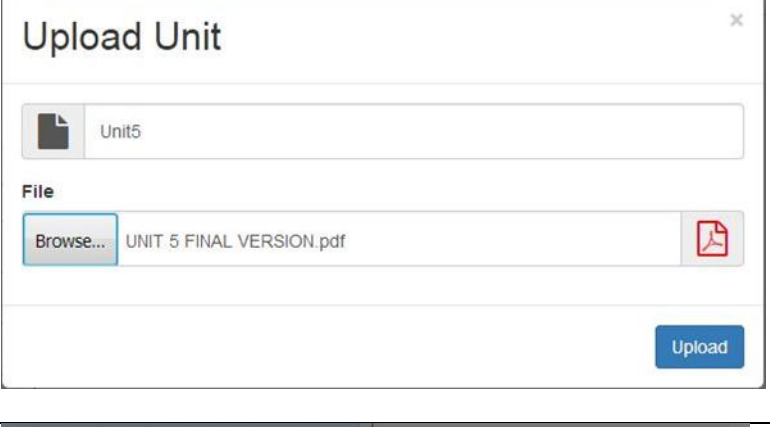

Contents file is like depicted in Figure 19.

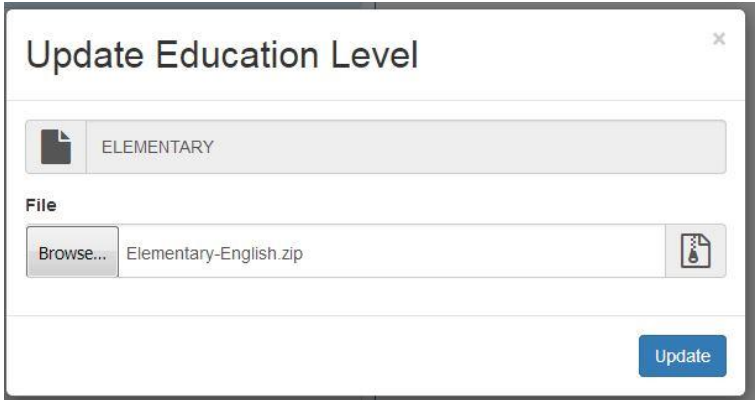
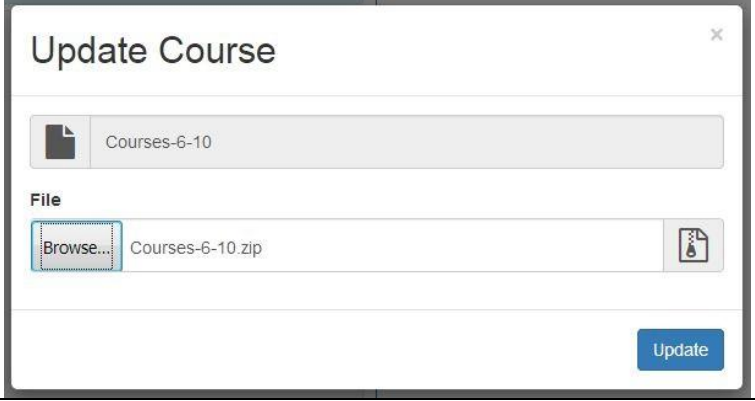
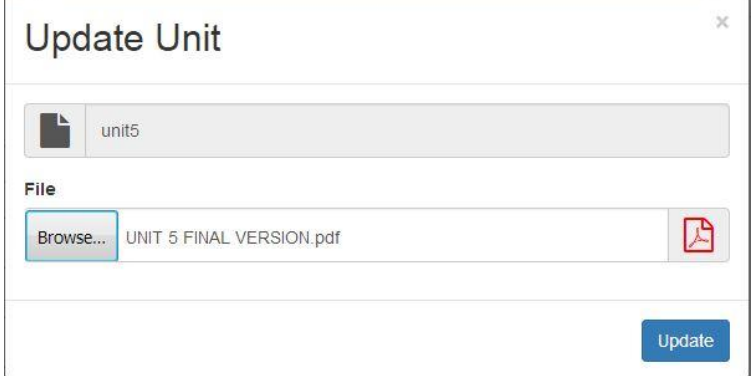
ELEMENTARY CONTENTS ENGLISH UNITS 1-5					
COURSE 1	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5
GRAMMAR/FUNCTIONS	<ul style="list-style-type: none"> To be Greetings and introductions Personal pronouns & possessive adjectives 	<ul style="list-style-type: none"> Saxon genitive Have/has (+) Adjectives 	<ul style="list-style-type: none"> Present Simple affirm. & spelling 3rd per. Sing. Adverbs of frequency Indefinite article – a/an 	<ul style="list-style-type: none"> Present Simple negative + interrogative Can /can't (abilities) There is/are 	<ul style="list-style-type: none"> Present Continuous affirm. + spelling -ing Present Continuous negative Present Continuous interrogative
VOCABULARY	<ul style="list-style-type: none"> Countries & nationalities Numbers (1-50) Jobs 	<ul style="list-style-type: none"> Family Personal objects Colours 	<ul style="list-style-type: none"> City & shops Prepositions (in/on/at) Days of the week and months 	<ul style="list-style-type: none"> Rooms & furniture Action verbs Prepositions (in/on/under/between) 	<ul style="list-style-type: none"> Clothes Sports Seasons and months (review)
READING/WRITING	Combination of all the grammar and vocabulary subsections from unit 1.	Combination of all the grammar and vocabulary subsections from unit 2.	Combination of all the grammar and vocabulary subsections from unit 3.	Combination of all the grammar and vocabulary subsections from unit 4.	Combination of all the grammar and vocabulary subsections from unit 5.
LISTENING /SPEAKING	Combination of all the grammar and vocabulary subsections from unit 1.	Combination of all the grammar and vocabulary subsections from unit 2.	Combination of all the grammar and vocabulary subsections from unit 3.	Combination of all the grammar and vocabulary subsections from unit 4.	Combination of all the grammar and vocabulary subsections from unit 5.

Figure 19: Contents of the “Contents” file

In the following table basic instructions on how to use the web application are provided along with explanations of the various icons used.

	Symbol
Download	
Delete	
Update language	
Upload New Language	
Upload Education Level	
Upload Course	
Upload Unit	
Upload a language modal form. In the example the given language name is English and the uploaded file is English.zip	

<p>Upload one Education Level modal form. In the example the given level is Elementary and the uploaded file is Elementary.zip</p>	
<p>Upload a course modal form. In the example the course name is "Course-6-10" and the zip file provided is the Courses-6-10.zip</p>	
<p>Upload a unit modal form. In the example the unit name is "Unit5" and the PDF file provided is file "Unit 5 FINAL VERSION.pdf". Notice that in the case of one Unit only the PDF file of the unit is provided and not a zip file.</p>	
<p>Update Language Modal Form: Language Name: English ZIP File: English.zip</p>	

<p>Update Education LevelModal Form:</p> <p>Level Name: ELEMENTARY</p> <p>ZIP File: Elementary-English.zip</p>	
<p>Update CourseModal Form:</p> <p>Course Name: Courses-6-10</p> <p>ZIP File: Courses-6-10.zip</p>	
<p>Update UnitModal Form:</p> <p>Unit Name: unit5</p> <p>PDF File: UNIT 5 FINAL VERSION.pdf</p>	

Similarly, by pressing the download icon next to each part (language, level, course and unit) you can download the contents of the selected part in zipped format or in the case of a unit just the PDF file of the unit (Figure 20).



Figure 20: Browsing and downloading the various parts