UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTeM)

BITP2223 SOFTWARE REQUIREMENT AND VALIDATION

BITD, SEM 2 2023/2024

DUE DATE : 22/03/2024

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Task 01: Register the App of Choice

Choose a language learning app from the Google Play Store or App Store.

Figure 1 : Apps Icon

App name chosen :

- App Store

  Learn Languages Fast | LingQ

- Play Store

  LingQ - Learn 47 Languages

Link apps :
- App Store
  https://apps.apple.com/my/app/learn-languages-fast-lingq/id379385811
- Play Store
  https://play.google.com/store/apps/details?id=com.linguist&pcampaignid=web_share

Task 02: Identify Functional Requirements

Observe the registration process. Explore the app. **Identify 10 functional requirements from the app**. Record your findings.

Functional user

1. The user can be able to browse and search for the learning content, for example, grammar, news, books, politics, and podcasts.	
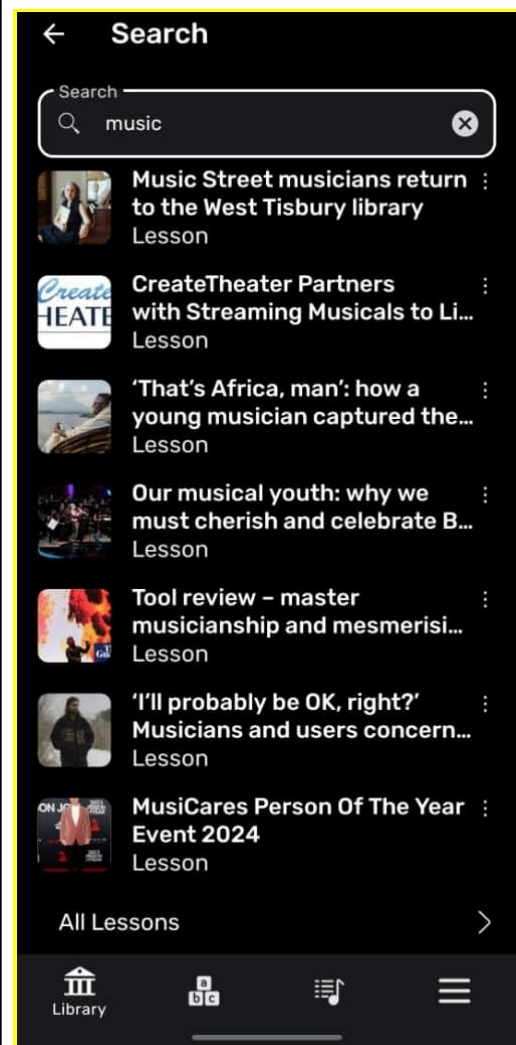
2. Users can import any content in the form of video, audio, or text related to the language that they choose.
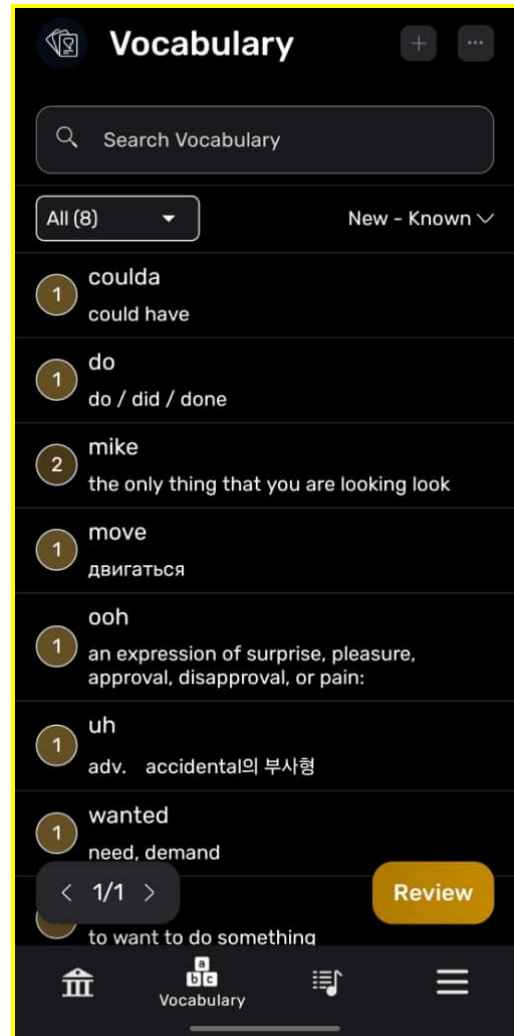
Import Lesson

Language

English

Title

Course

Quick Imports

**Level**

Beginner 1

Source

URL

URL

Import

3. The user can save and find definitions for new words that they encountered in the learning content.

4. Users can continue their learning progress or download the learning content for studying without an internet connection.
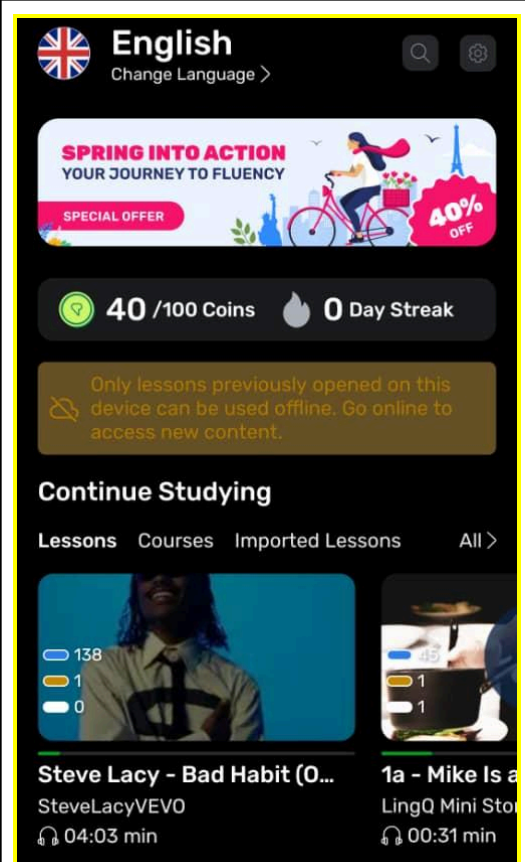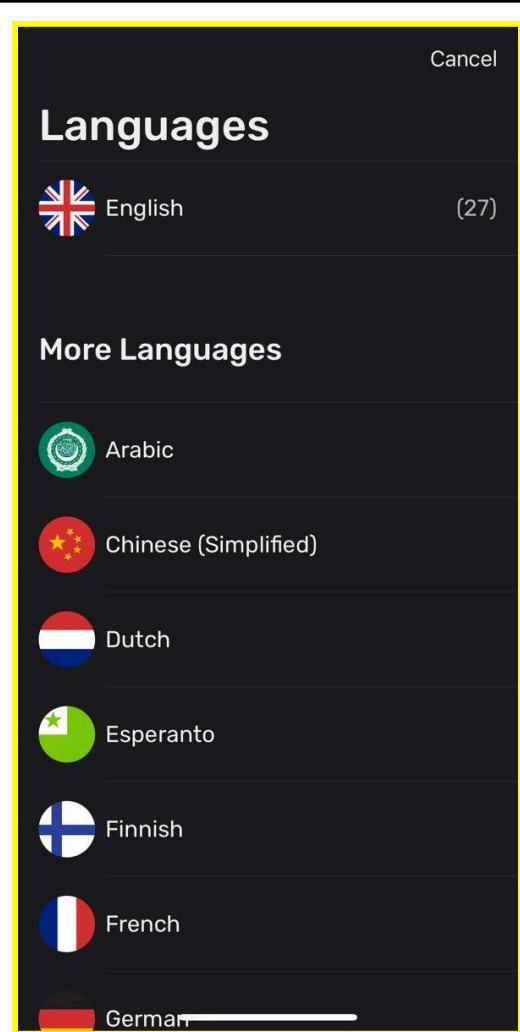
5. Users have the ability to customize their preference setting of their learning experience within the app, such as theme system, color schemes, time zone, interface language, and difficulty level language.
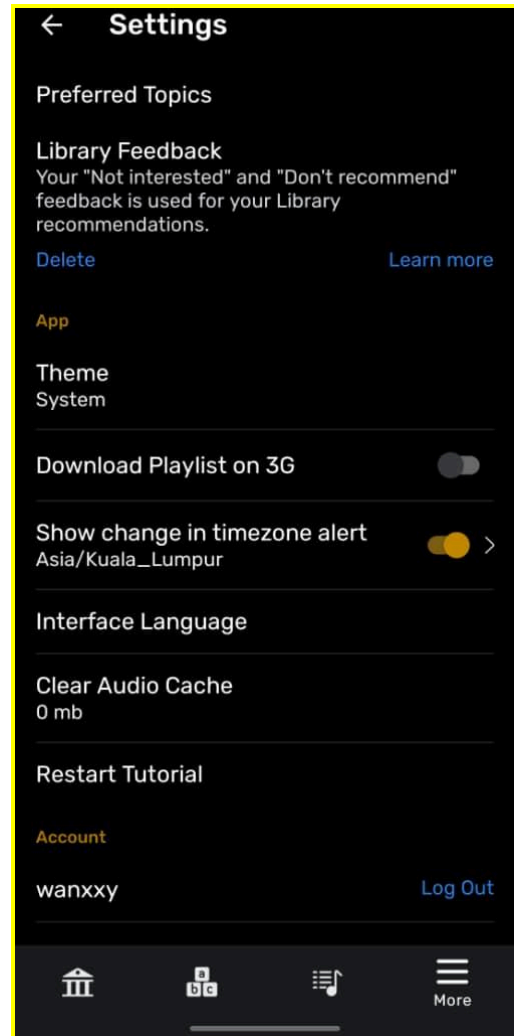
Functional System

6. The application provides a range of languages for the user to choose. There are around 47 languages available that can be chosen .	 Cancel **Languages** 🇬🇧 English (27) **More Languages** Arabic Chinese (Simplified) Dutch Esperanto Finnish French German

7. The application should be able to play audio and text content for users to listen and learn from the content.
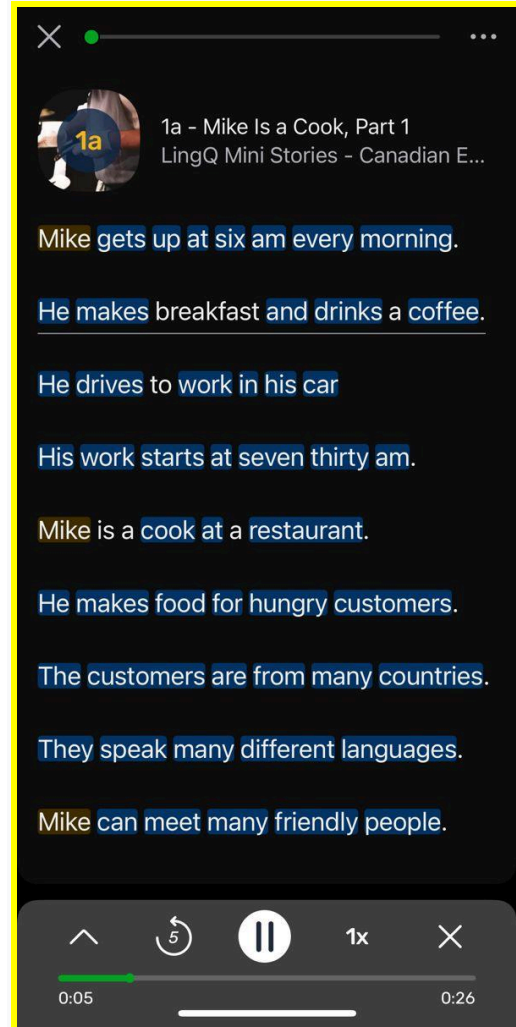
8. The application will recommend suitable content to the user such as beginner-guided courses if the user is new to the learning language.
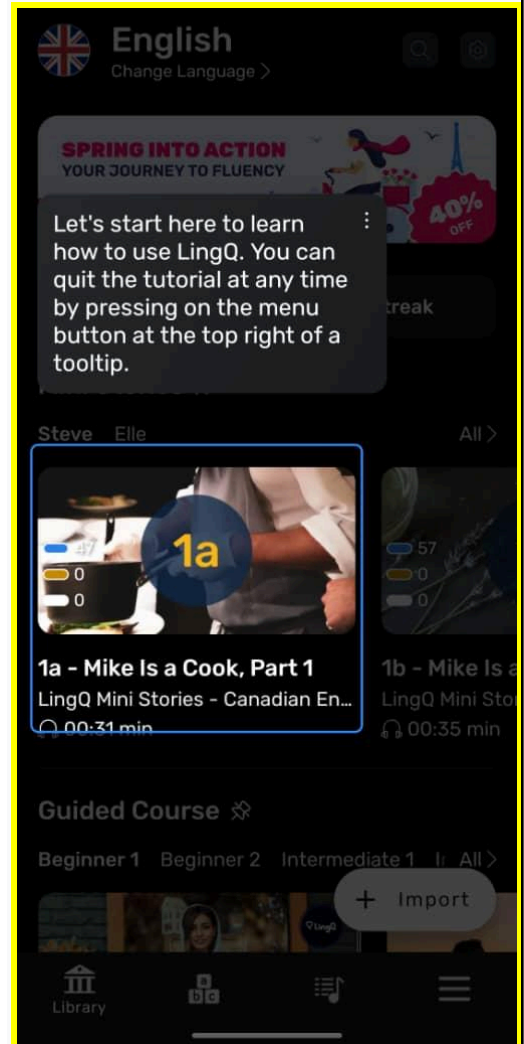
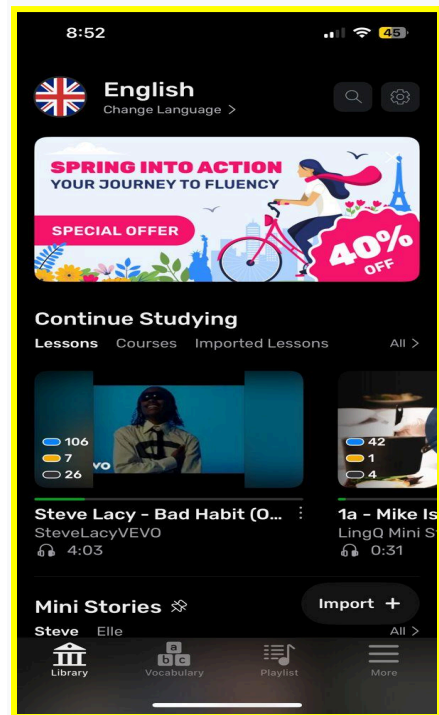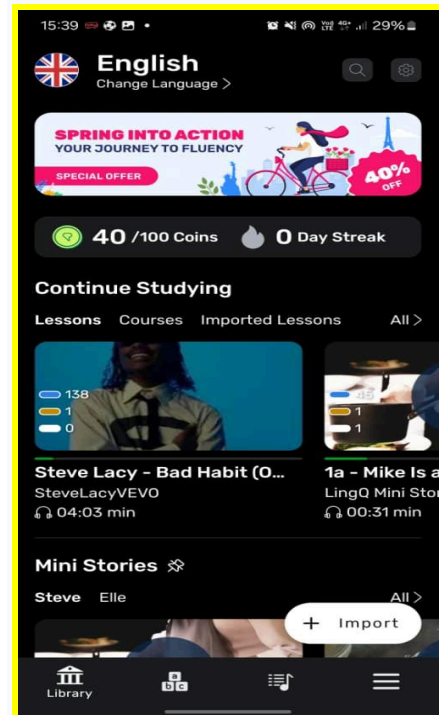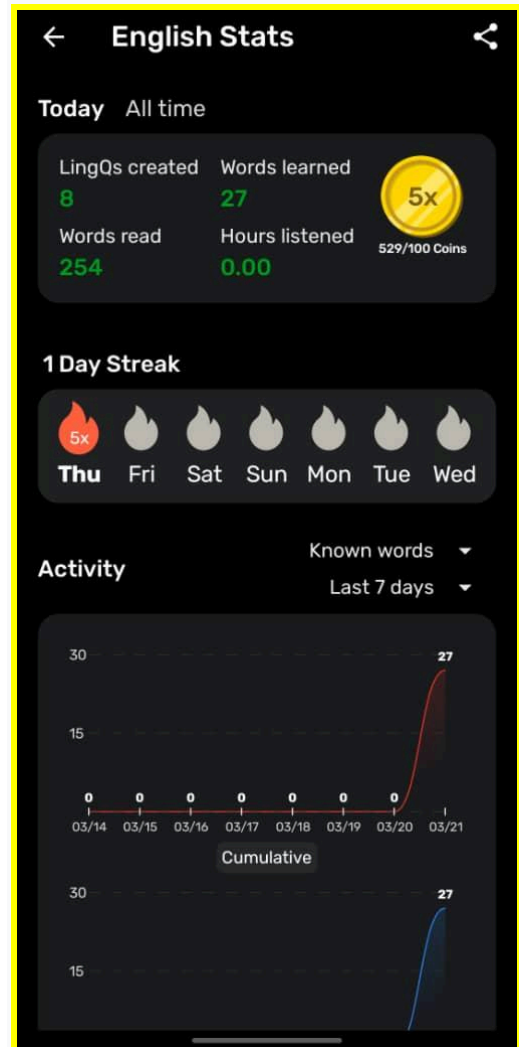|	
9. The application is able to synchronize user progress between multiple devices when online.	 Figure 1 & Figure 2 indicates of using the multiple device

10. The application tracks user progress The system should track users' learning progress and generate reports or visualizations to display their vocabulary growth, streak learning days from time to time.

Task 03: Identify the Non-Functional Requirements

During the observation of functional requirements, observe the behavior of the application, **Identify six (6) non-functional requirements from the app**. Record your findings.

1. The application ensures that user Data, including login credentials, learning progress and personal information, is encrypted during transmission and storage to prevent unauthorized access or any interception.
2. The application is compatible with various devices and operating systems to reach a wider audience of learners.
3. This application loads the language learning content, such as audio files, news, books, politics, and podcasts quickly and efficiently, making a smooth and responsive user experience.
4. The application serves as a user-friendly interface that allows users to navigate, search content, and interact with features easily to make the audience interested in using this application.
5. This application works under various network bases such as Wi-Fi, cellular data and can also be used offline but the content access is quite limited for offline use.
6. The application sets clear rules of conduct for user interaction, user-generated content to ensure compliance with community standards, and provides mechanisms to report and address ethical violations.