

Software for increasing the vocabulary of children and learning foreign languages

Part 1. Development of software for desktops

Part 2. Development of software for mobile devices

Performed by:

a students of 2nd course of 3ACIT-18m group

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Supervisor:

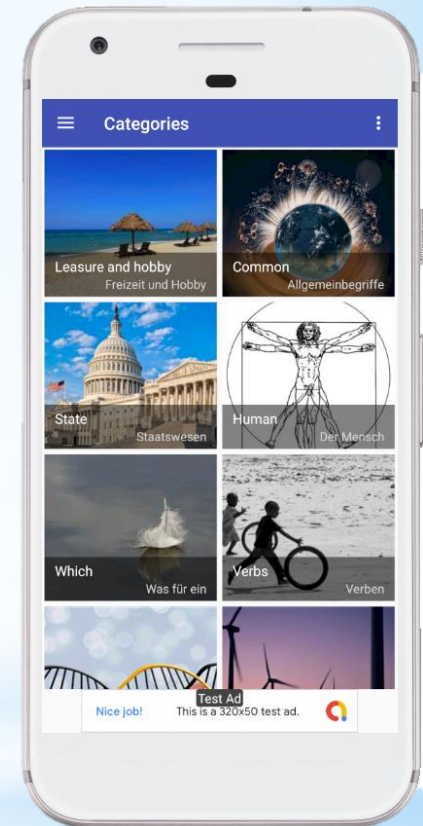
PhD. As. Prof. I. Bogach

- * *The aim of the study* is to develop the new information system that uses new highly efficient learning tools received by analysis of the most effective learning tools and methods.

To achieve this goal the *following tasks* have been resolved:

- * To analyze modern state of the implementation information systems into the learning process;
- * To analyze modern information systems of the foreign language learning and methods of the vocabulary of kids replenishment, to make comparative analysis, find advantages and disadvantages;
- * To design universal information system designed for foreign language learning and vocabulary of kids replenishment based on analyses.
- * To inquire modern approaches and technologies that can be used in development of information system;
- * To develop information system using inquired technologies and instruments;
- * To test developed information system and analyze its effectiveness and expediency of implementation.

- * ***The scientific novelty of the work*** is the design and development of a new information system for teaching children using new highly effective learning tools based on comparisons of the most modern methods.
- * ***Object of the study*** - the process of the foreign language learning and vocabulary replenishment of kids.
- * ***Subject of the study*** - methods and instruments of foreign languages learning and vocabulary replenishment of children.



Analysis of existing methods

- * Zaitsev Method
- * Maria-Montessory method
- * Olga Soboleva method
- * Doman Method



Analysis of existing solutions

- * LinguaLeo
- * Duolingo
- * Babbel
- * Busuu
- * British Council
- * Memrise

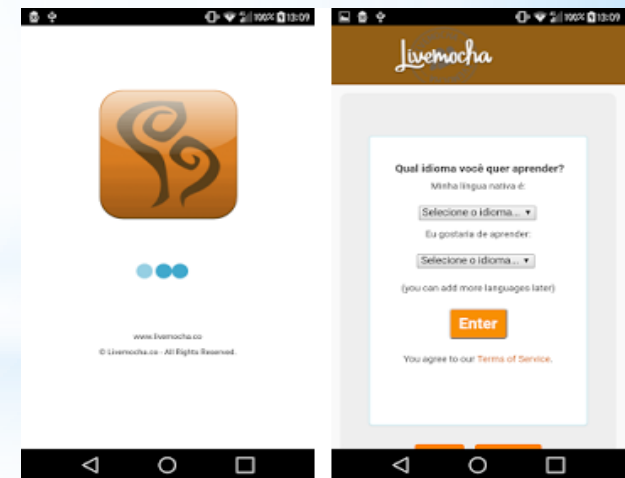




Figure 1 – Use case UML diagram

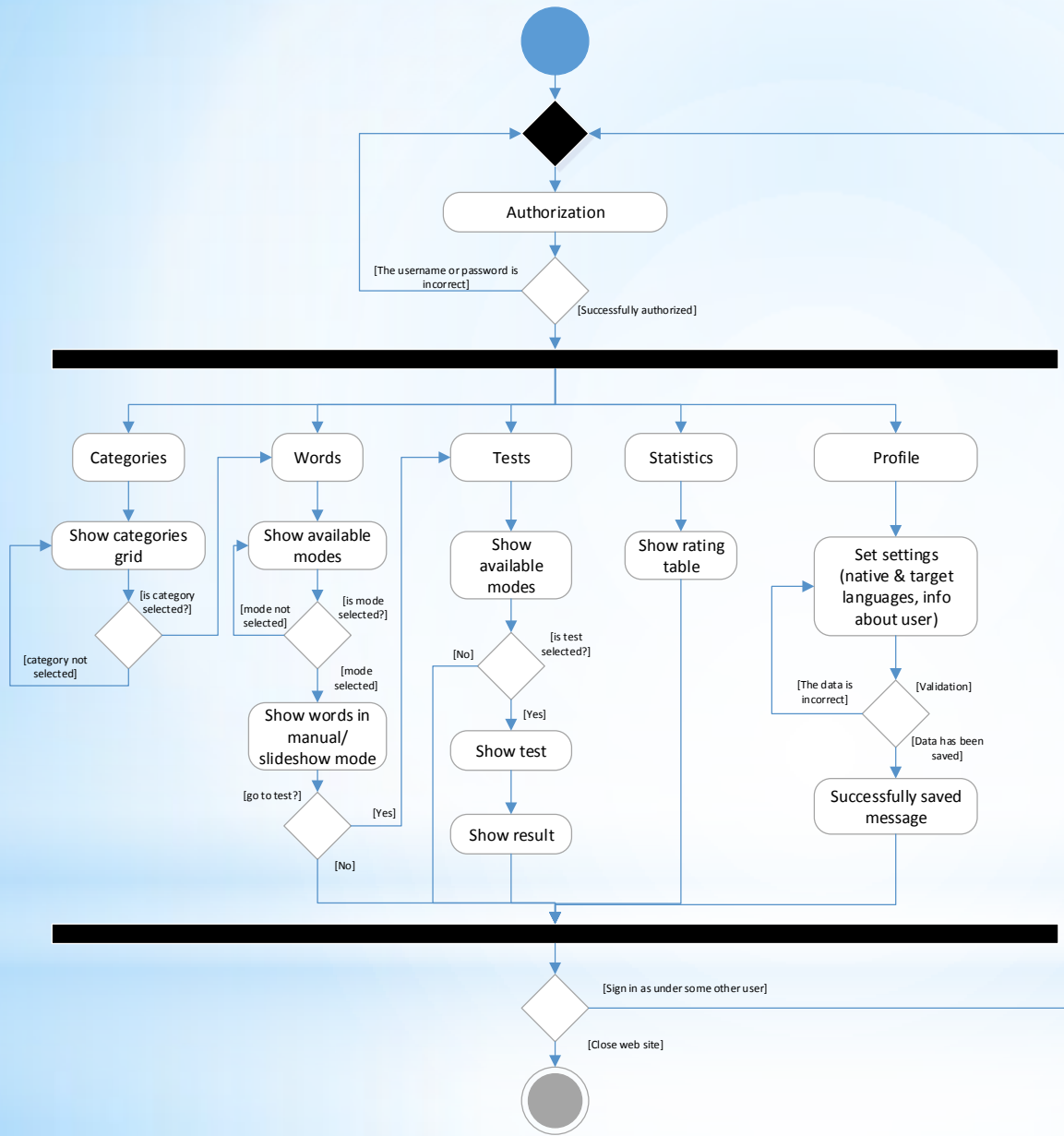


Figure 2 -
Activity UML diagram

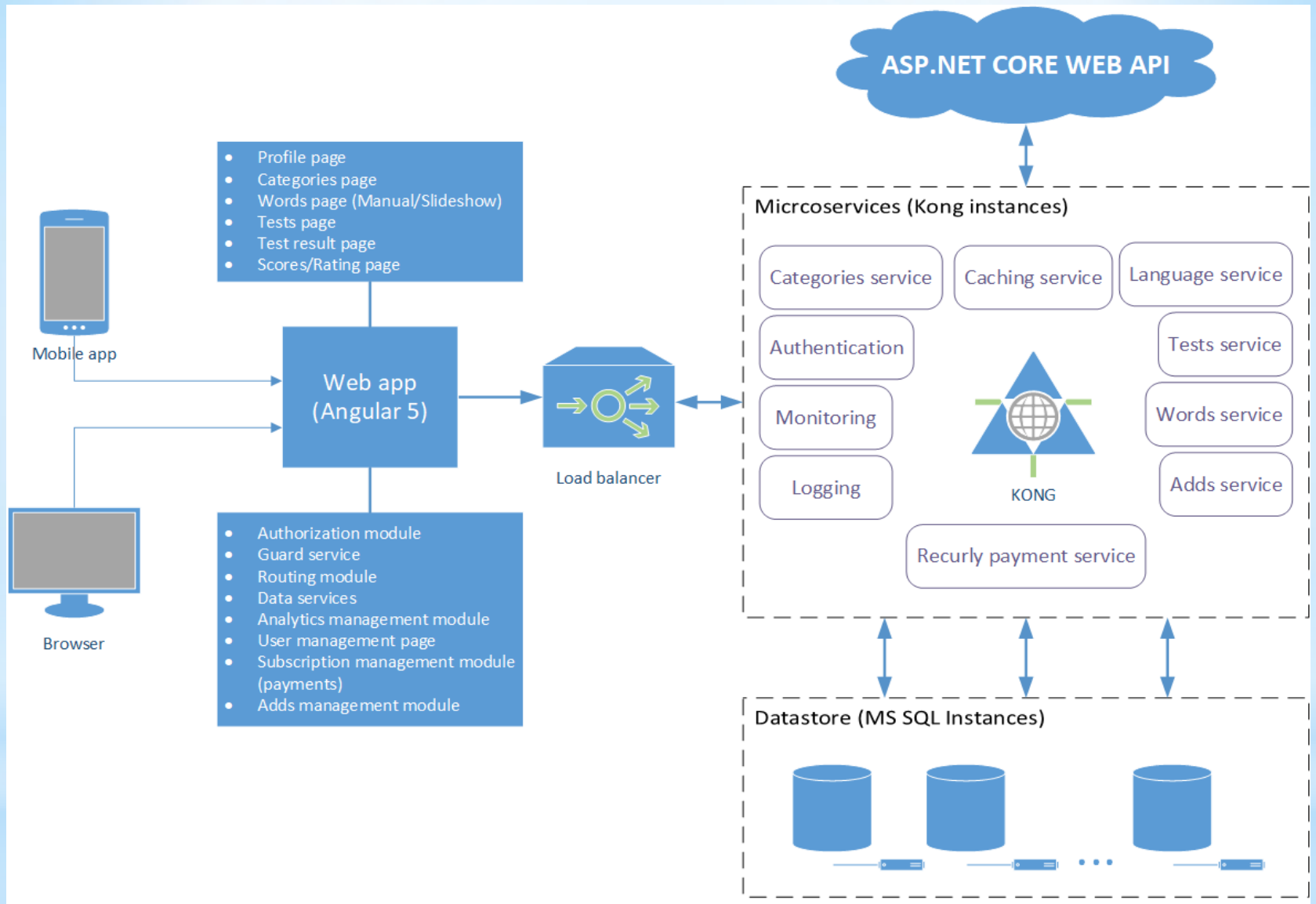


Figure 3 - Client-server architecture

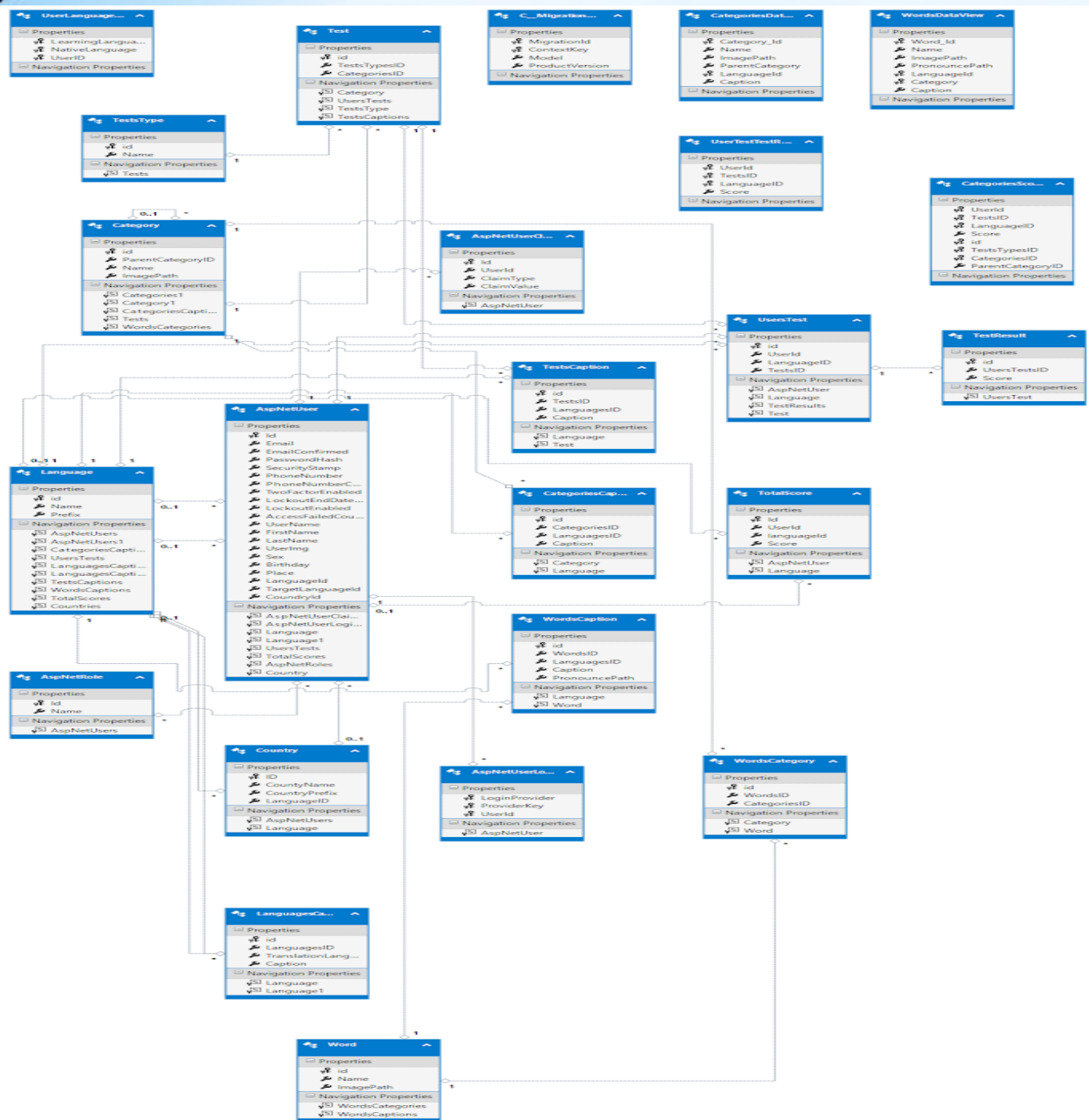


Figure 4 – Database Structure

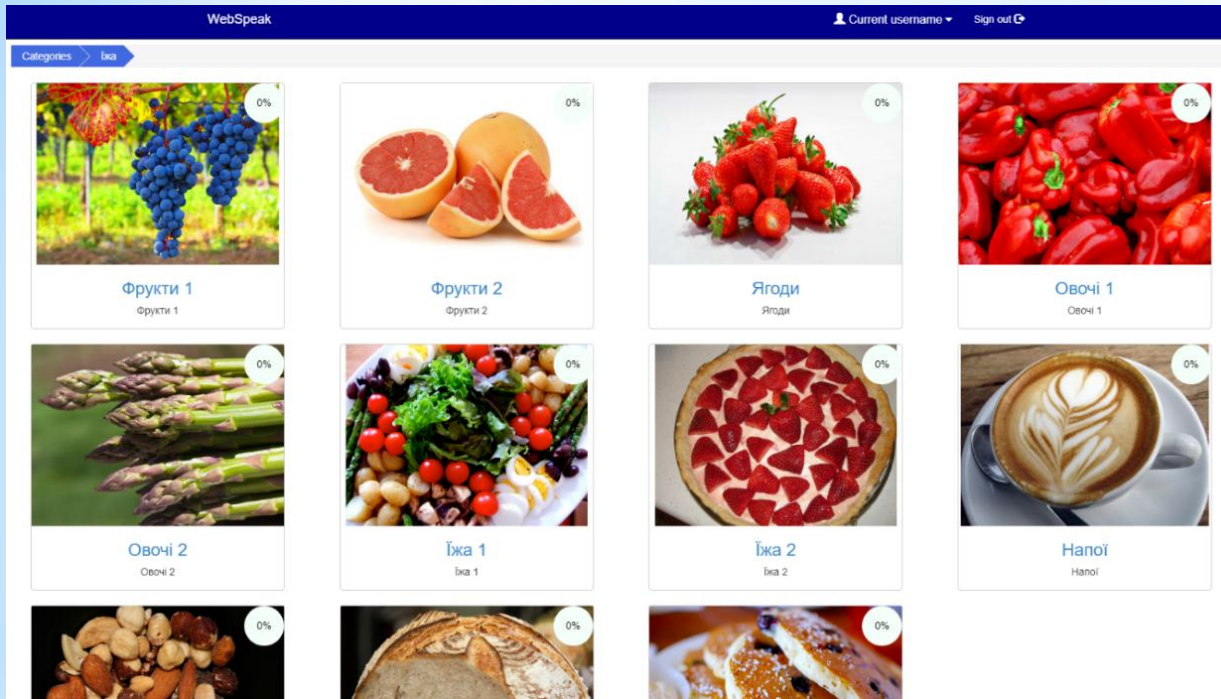


Figure 5 – Main categories page

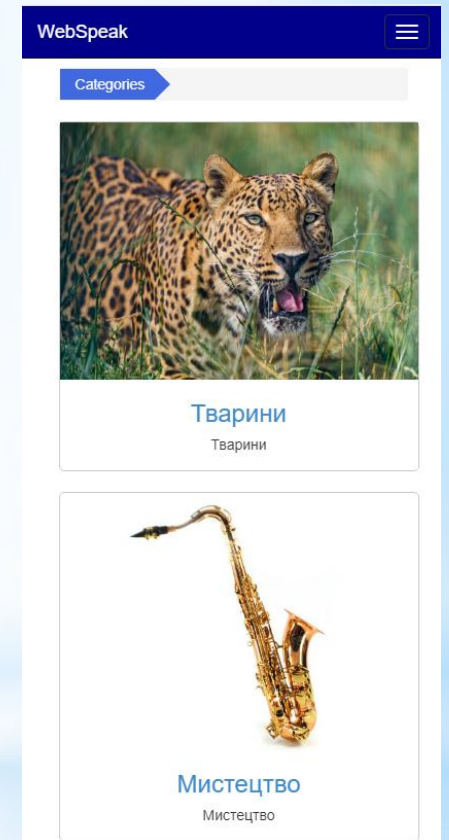
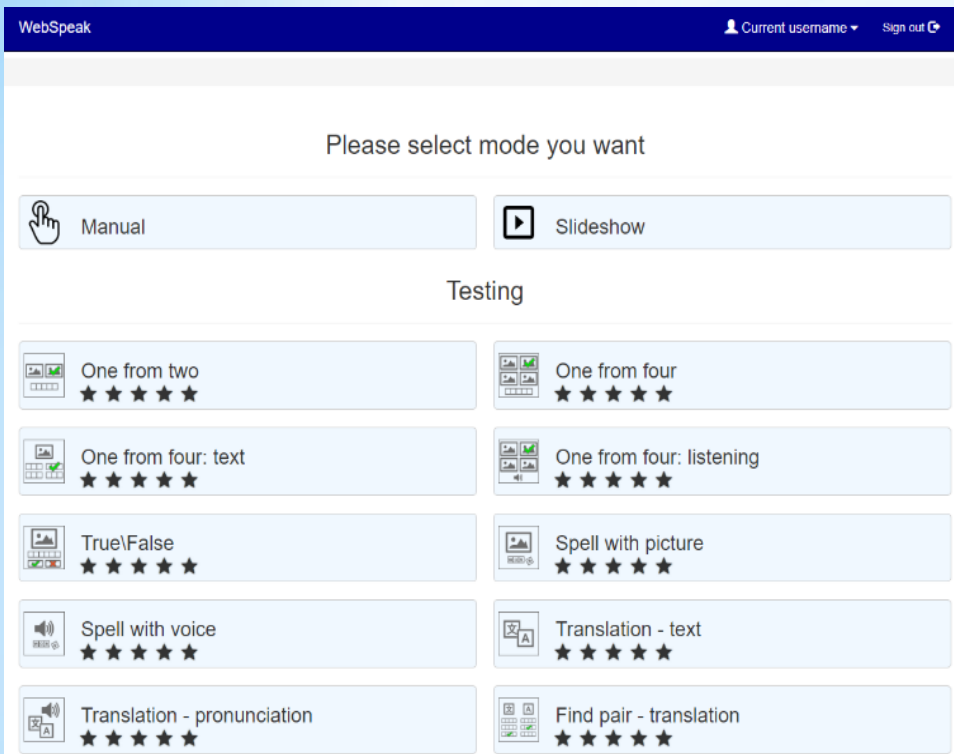


Figure 6 – Mobile devices view



Examples of different type of tests

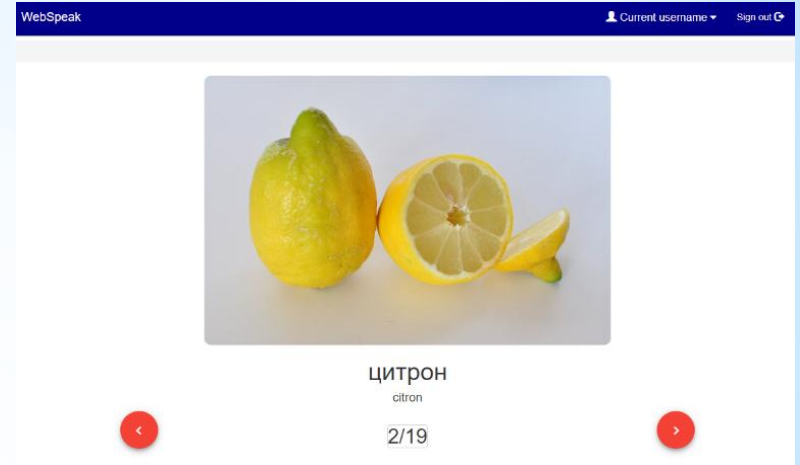


Figure 7 – View, tests selecting modes

page



Examples of different types of tests



WebSpeak Current username Sign out




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WebSpeak Current username Sign out

Examples of different tests



WebSpeak Current username Sign out



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WebSpeak Current username Sign out



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Examples of different types of tests

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fritters


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WebSpeak Current username Sign out



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WebSpeak Current username Sign out

соломка

pizza

pancake


long thin biscuit sticks

macaroni

WebSpeak Current username Sign out

pancake	млинець
vareniki	пиріжок
hotdog	вареник
pasty	хот-дог

>

WebSpeak 

New User Registration

Email*

Phone Number

User name*

Password*

Confirm Password*

Native Language

Target Language

Figure 8 – Sign up page

WebSpeak Current username ▾ Sign out ↗

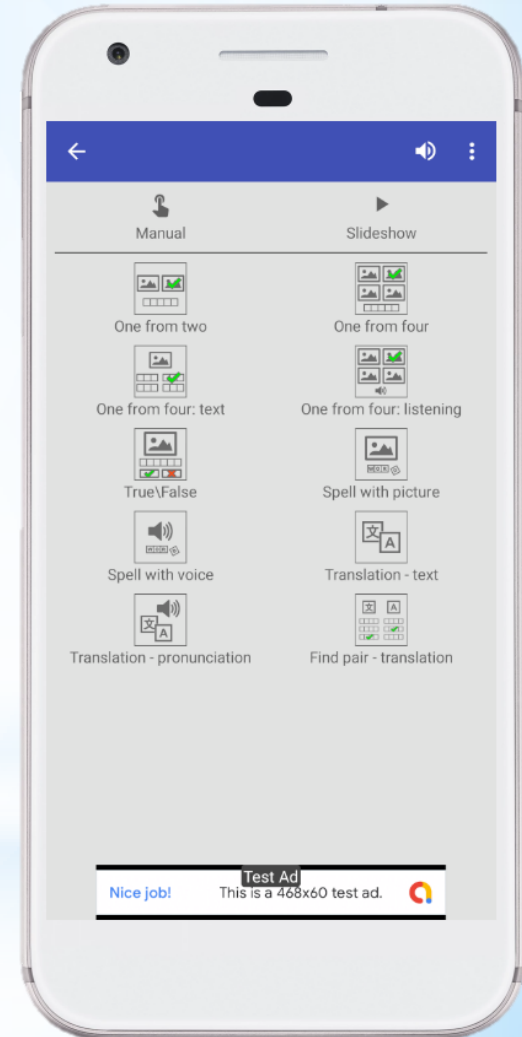
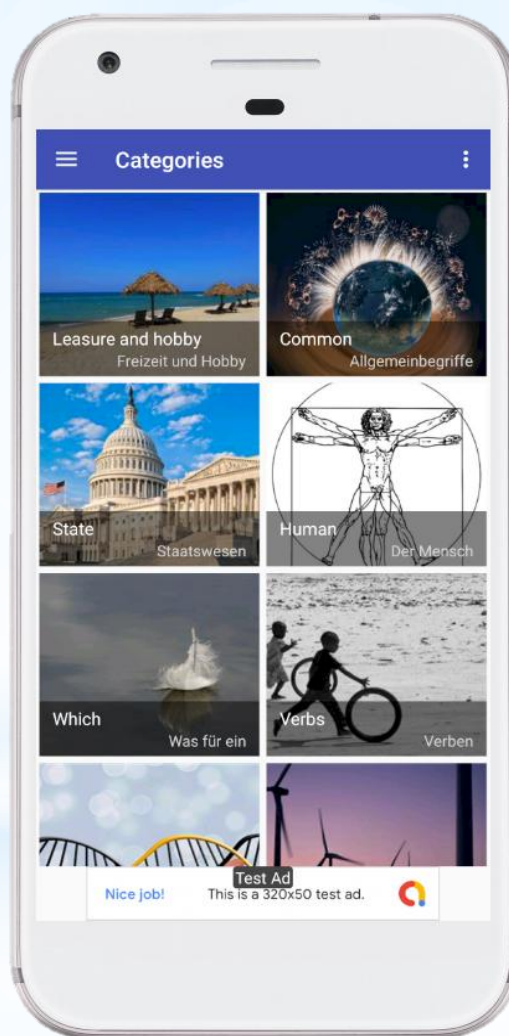
User name

Password

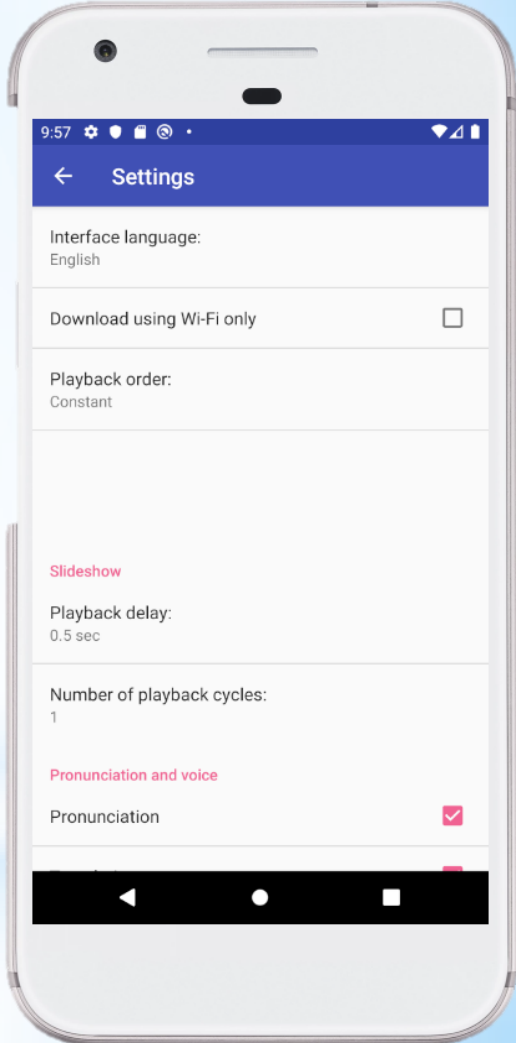
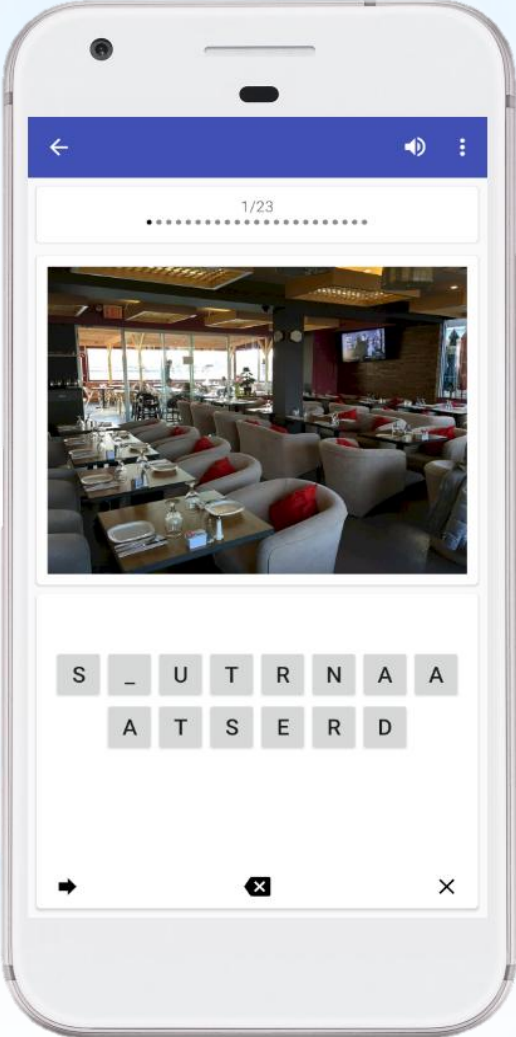
Remember on this computer

Figure 9 – Sign in page

Mobile application screens



Mobile application screens



* ***The main scientific and technical result of the work*** - new information system was presented, which, unlike existing analogues, increases the efficiency of learning foreign languages and the vocabulary of children replenishment by using new highly effective methods of learning, obtained by analyzing the most effective methods of language learning used nowadays.

*Thanks for attention