

eProject Group 4

KIDS-ZONE

Website Learning Online

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Can Tho city,
3-19-2019

PROJECT TEAM INTRODUCTION

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Table of contents

Problem Statement.....	3
Customer Requirement Specification (CRS).....	4
SiteMap	8
Task Sheet.....	64
Checklist of Validations	67
Submission Checklist	68
Installation Guide.....	69
User Guide	70

Problem Statement

The **www.kids-Zone** website is designed for the Kids for Learning ABC's in more creative way. The website includes the ABC with A for, B for.... It also includes some nursery rhymes with images so that child can grasp more easily. One two three till 20 with spellings, some basic calculation. Galleries of basic animals, plants, fruits, games colors, Sunday-Mondays and so on. The website is to be developed for the Windows Platform using HTML5, CSS3, JavaScript and Geolocation. The site should work well in all leading browsers including Chrome, Opera, Firefox etc.

- Use colorful images, videos, songs... to support teaching
- The kids can login and take exams online after each lesson
- Everything must be designed friendly for the kids

After reading the project specifications, the developer states the scope of the project very briefly:

- Creating the website, it has name “Kids-zone”. It is designed for the Kids for Learning Online included Alphabet, Numbers, Maths, Date... in more creative. By using colorful images, videos, songs...and the kids can study more easily.
- Website Kids-zone has decided to launch the Web page using HTML5, CSS3, JavaScript, jQuery 3.3.1, Bootstrap 4.3, Fontawesome 5.7.2, Geolocation API (Googlemaps API), and HTML Storage (Local and Session Storage).

Customer Requirement Specification (CRS)

Client: Kids-zone

Business/Project Objective:

- Creating the website have the most friendly and intuitive learning environment for kids
- Development and deployment of education for kid on website

Inputs provided by the client:

- **Inputs to the existing system:**
 - General information about website:
 - Logo, banner, slogan, purpose of website
 - Information of members in team who create this website
 - System:
 - Images, videos, songs, fonts and typography
 - Questions, answers
 - User provide:
 - Registered User Information (username, password, name, gender, birthday, email, phone, address)
 - Feedback of user

Outputs from the existing system:

- Lessons online, exams
- Basic Calculator
- Result of exams

Process involved in the application:

- Show images, videos, songs... for teaching
- Check login and sign up registered information from user
- User must login successfully to do exams
- Check the correct answer exams, calculate score and show result
- Get feedback from user

Expected delivery dates: 19-3-2019

List of deliverables:

- Completed application
- Project documentation
- Installation Guide
- User Manual
- File Design

Hardware Requirements:

	Client	Server
CPU	Intel Pentium 4 processor or higher	Intel Xeon E3 or higher
Ram	2 GB or higher	8 GB RAM or higher
VGA	Intel HD Graphics 2000 or higher	-
Hard Disk	80 GB or higher	500 GB or higher

Software Requirements:

Client	Server
Windows 7 OS or higher Any browser support HTML5, CSS3 and JavaScript (Recommend Google Chrome, Opera)	Windows Server 2008 R2 or higher Web server

Scope of the Work (in brief):

The Web site is to be created based on the following requirements:

- Home page must be designed by including various interactive funny images, colorfull, friendly for the kids.
- Navigation links must be included and must be designed in an interactive way so as to become more user friendly for the kids.
- Font sizes must be selected appropriately thinking about the end users.
- Navigation must be made user friendly.
- Menus include such as:
 - Alphabet (ABC, abc...)
 - Numbers (1 to 20)
 - Multiplication table (2 to 9)
 - Simple Calculus (addition, subtraction, multiplication, division)
 - Basic vocabulary
 - Some nursery rhymes with relevant images
 - Basic colors
 - Some animals, vegetables...
 - Day of week (Sunday, Monday...)
 - Month (January, February...)

- Exams (here allow the end user to enter the value and message must be prompted whether correct ans or incorrect)
- Register and login
- Feedback
- Look and feel must be made user friendlyUniformity and Navigation must be made smooth throughout the website
- The “Contact Us” page should have the Address of the Company and the mail address which when clicked will invoke the local mail client from where they can send an email. Address of the Company should be displayed using GeoLocation API (eg. GoogleMaps).

Architecture and Design of the System

The application will have a client-server architecture.

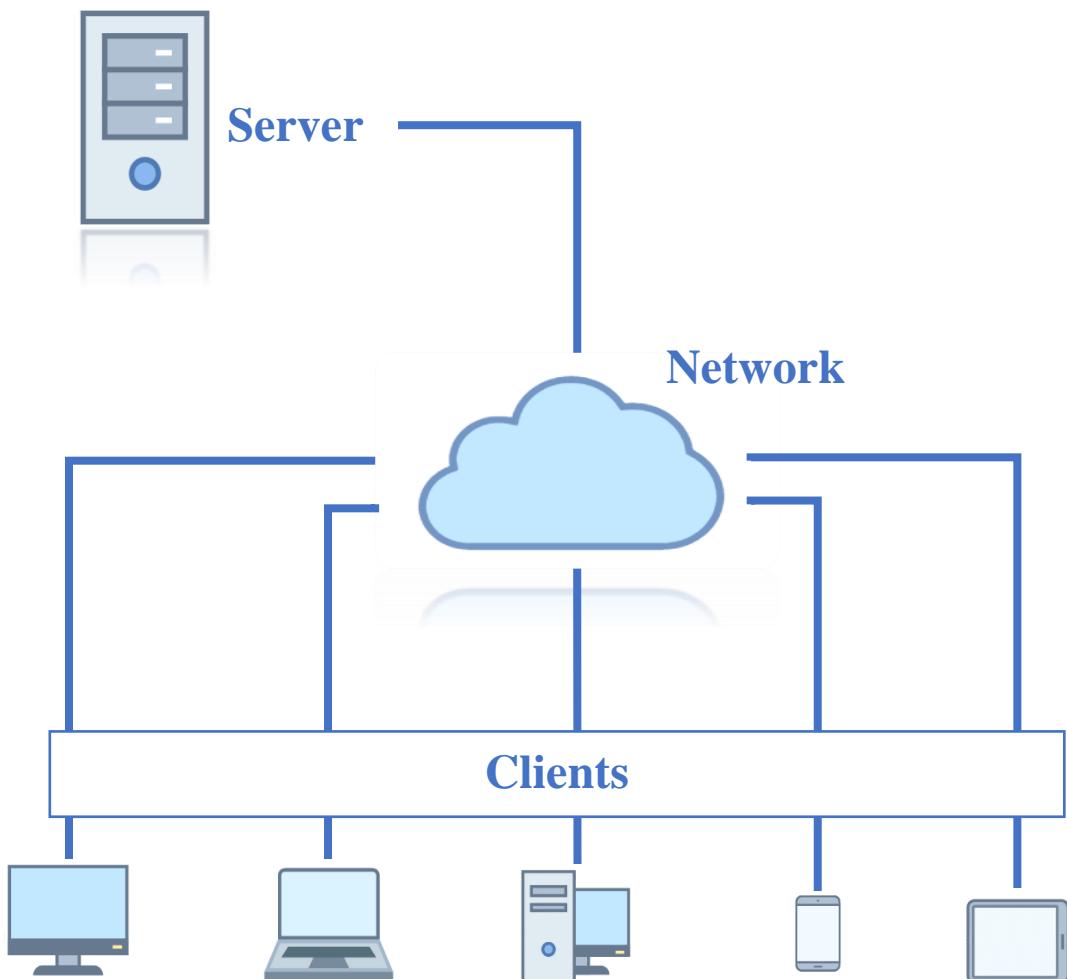


Figure 1 - Client-server architecture

SiteMap

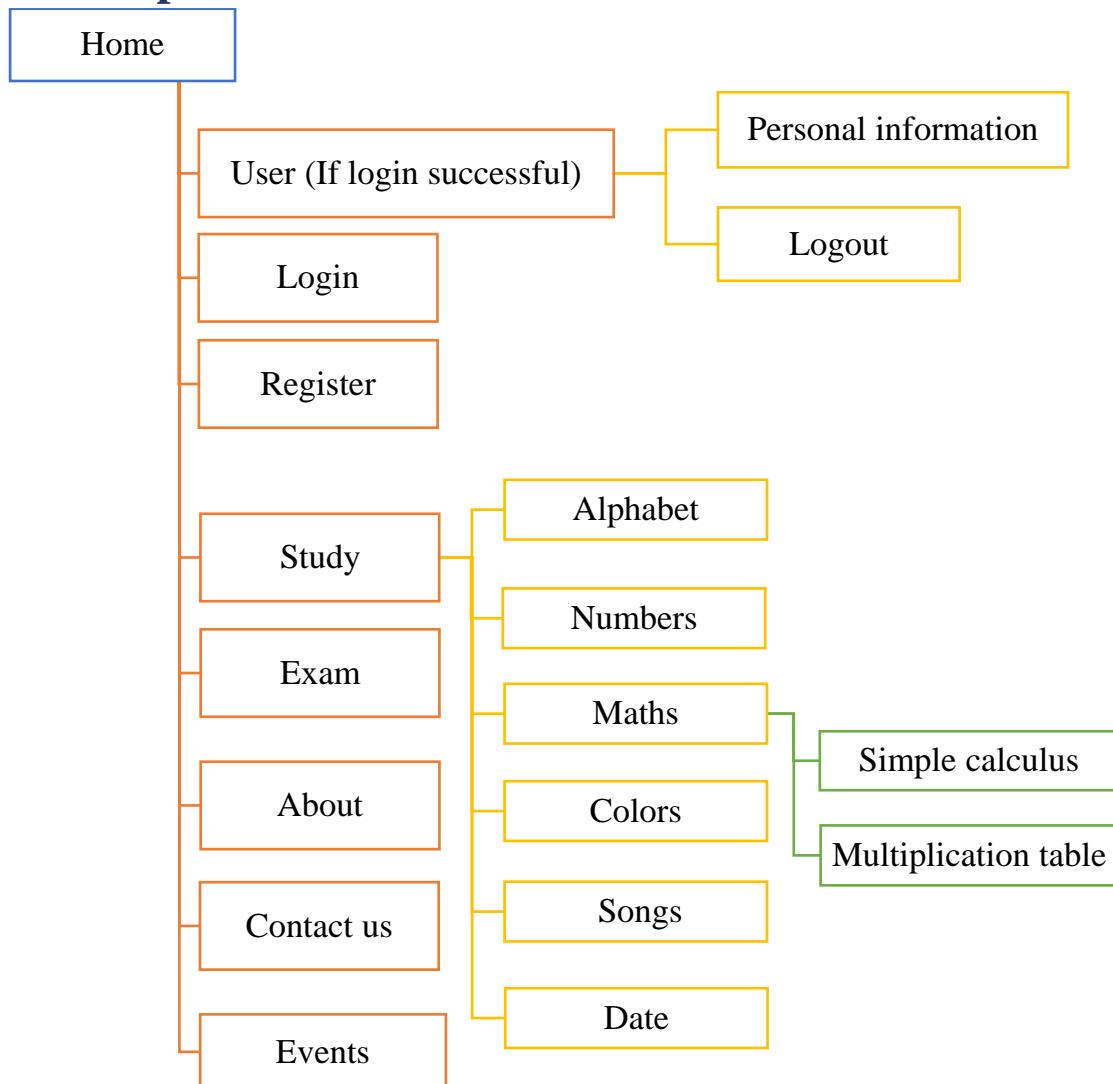


Figure 2 Site map

1. Figure:

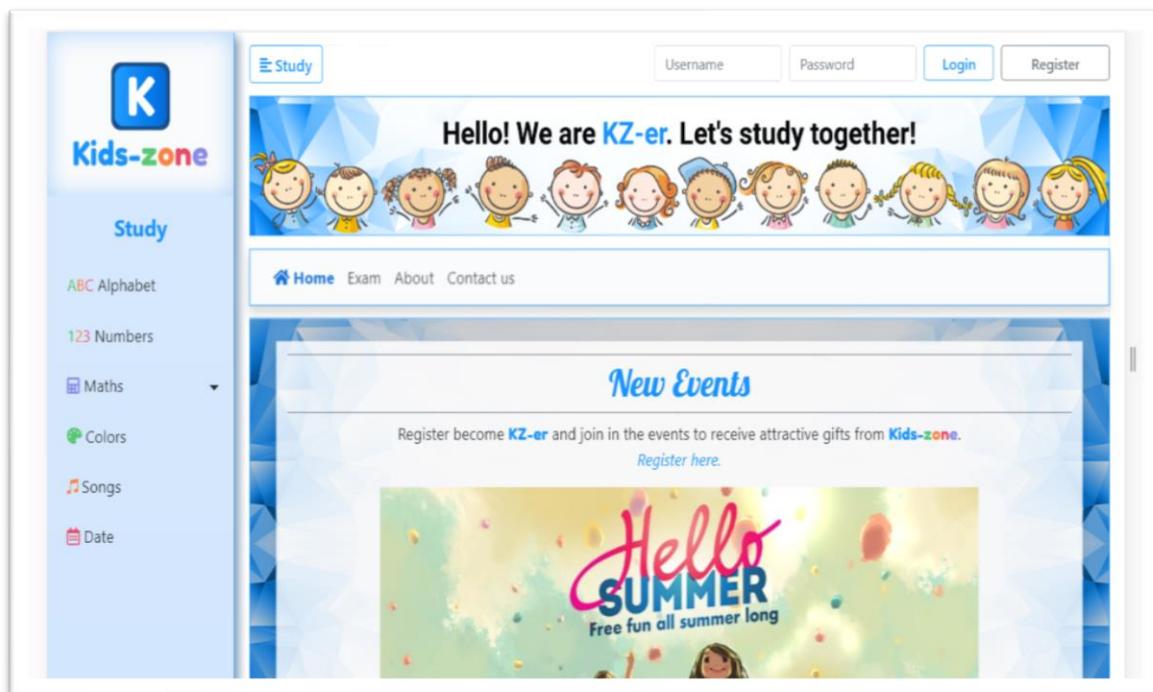


Figure 1 – Home page on PC

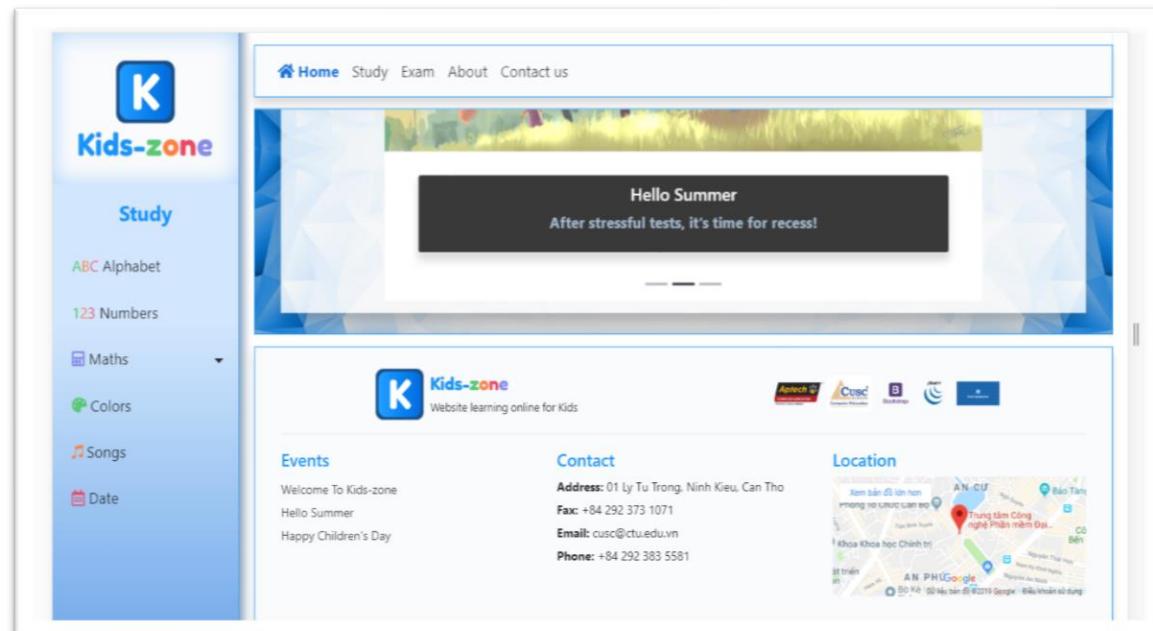


Figure 2 – Home page on PC

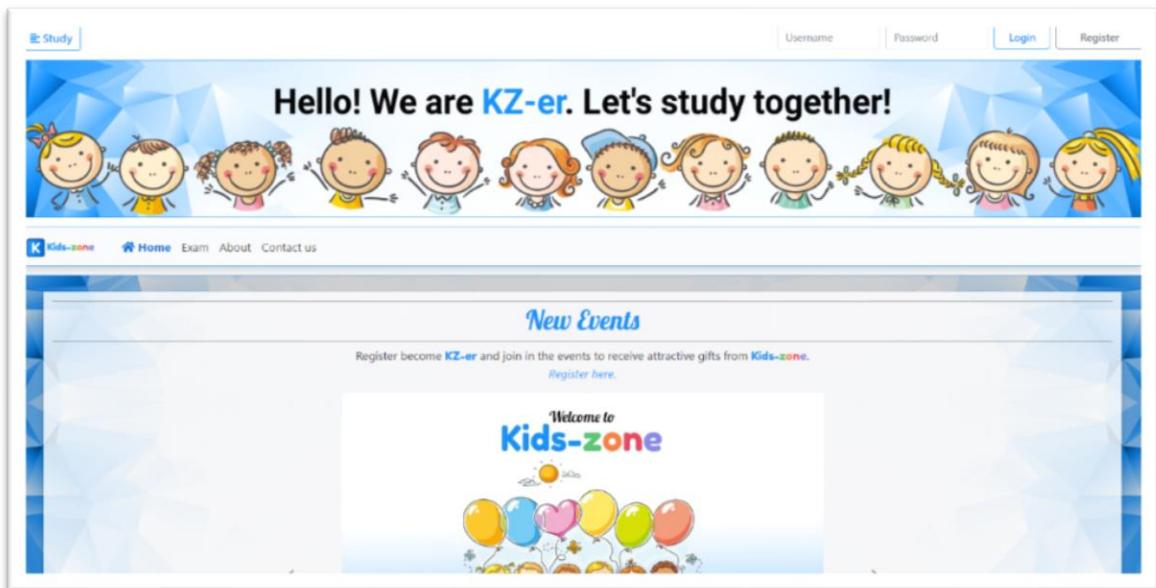


Figure 3 – Home page on PC when user clicks **Study button**

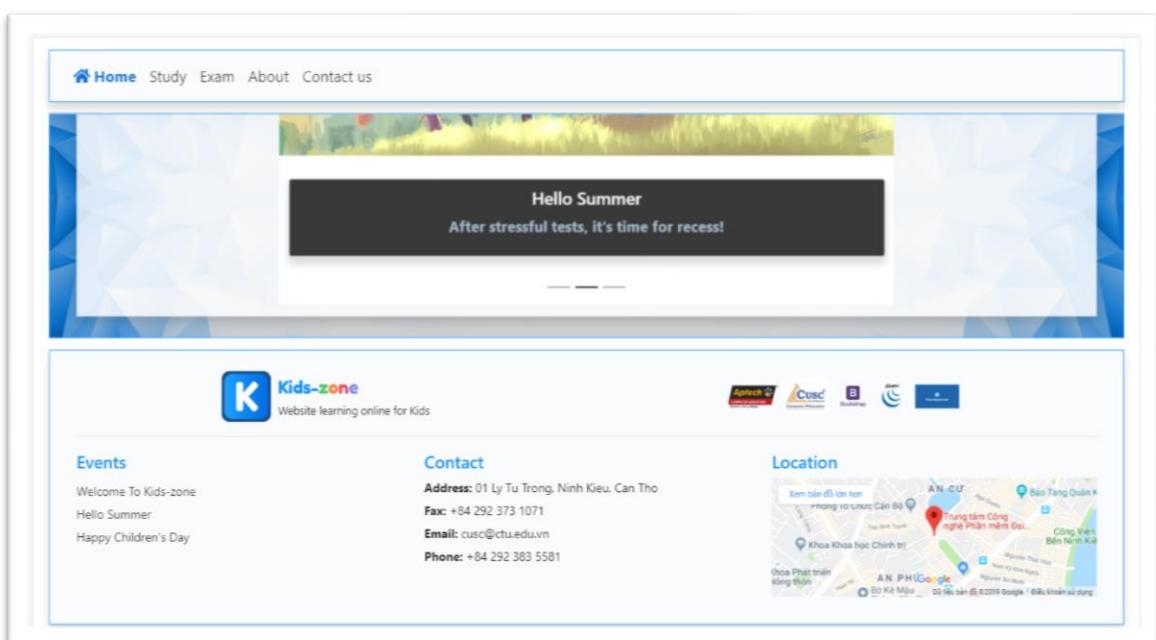


Figure 4 – Home page on PC when user clicks **Study button**



Figure 5 – Home page on PC when “slideshow events” scrolls

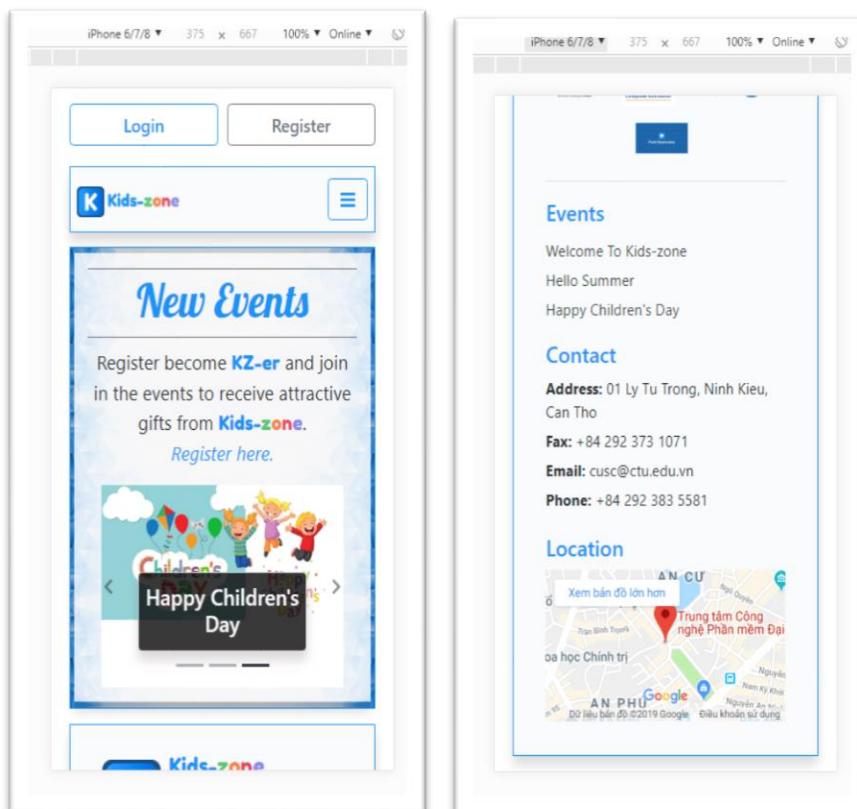


Figure 6 – Home page on Mobile

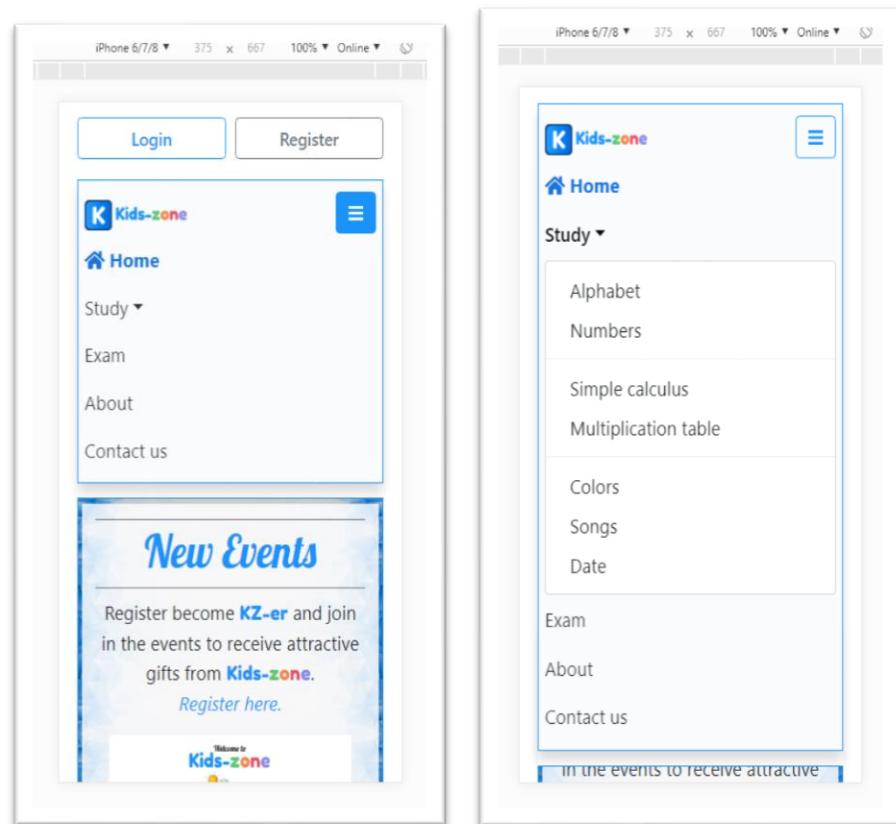


Figure 7 – “collapsing Navbar” of Home page on Mobile

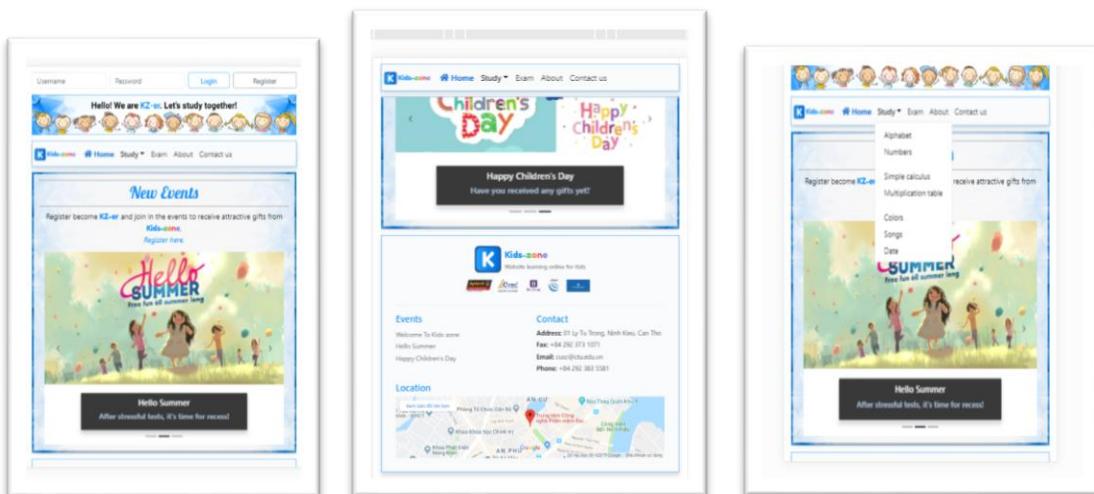


Figure 8 – Home page on Tablet

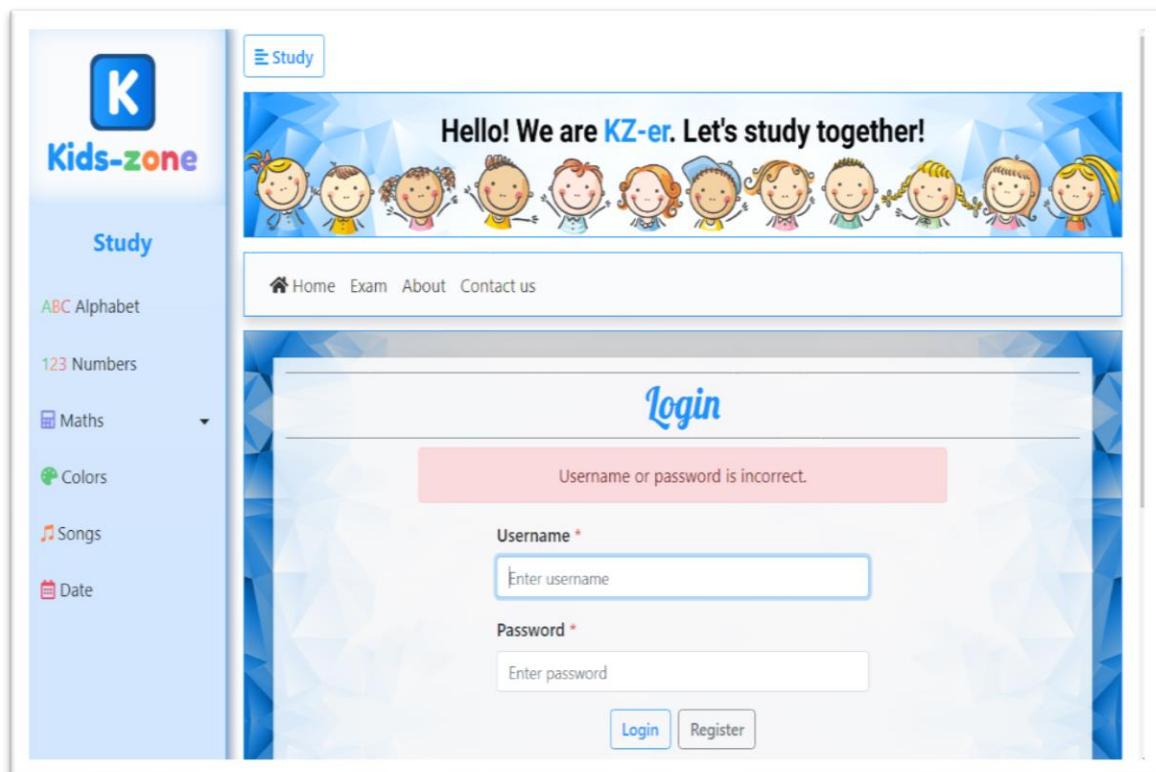


Figure 9 – Login page on PC

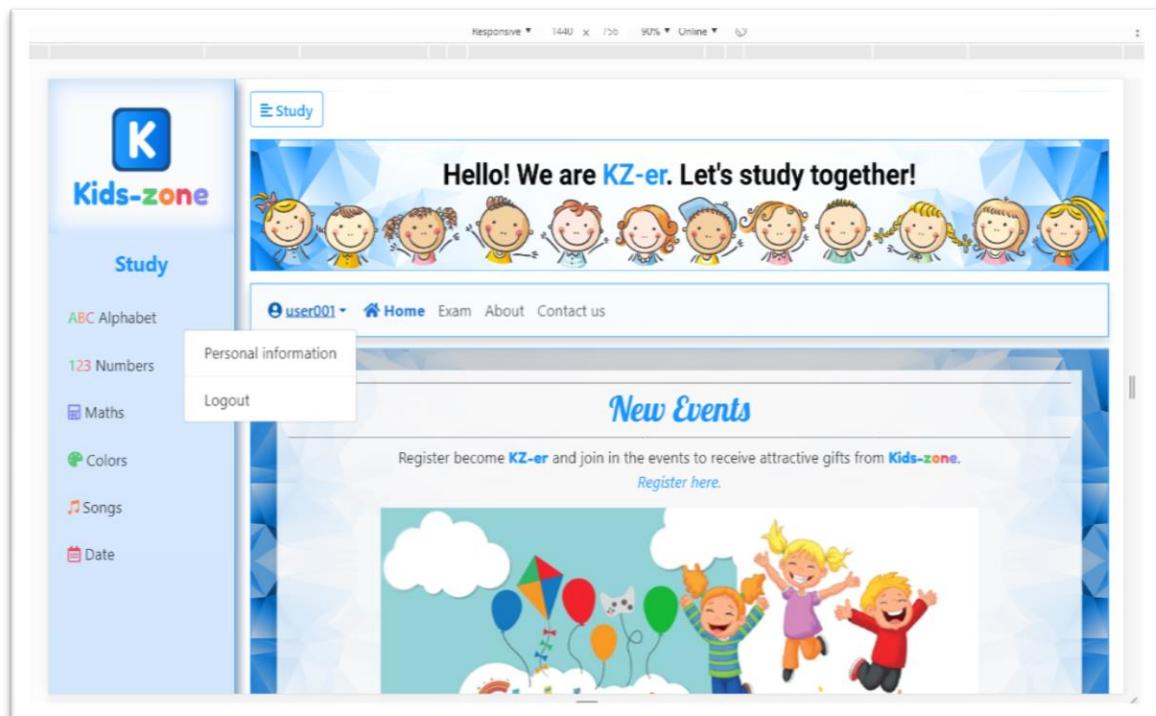


Figure 10 – When login successfully, **User button** will be shown

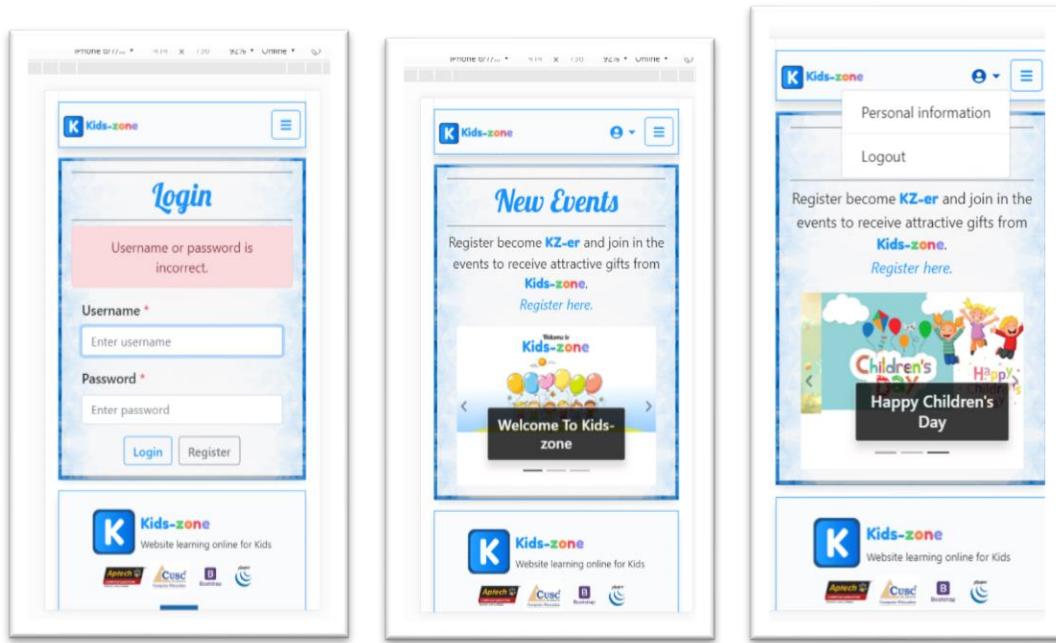


Figure 11 – Login page on Mobile

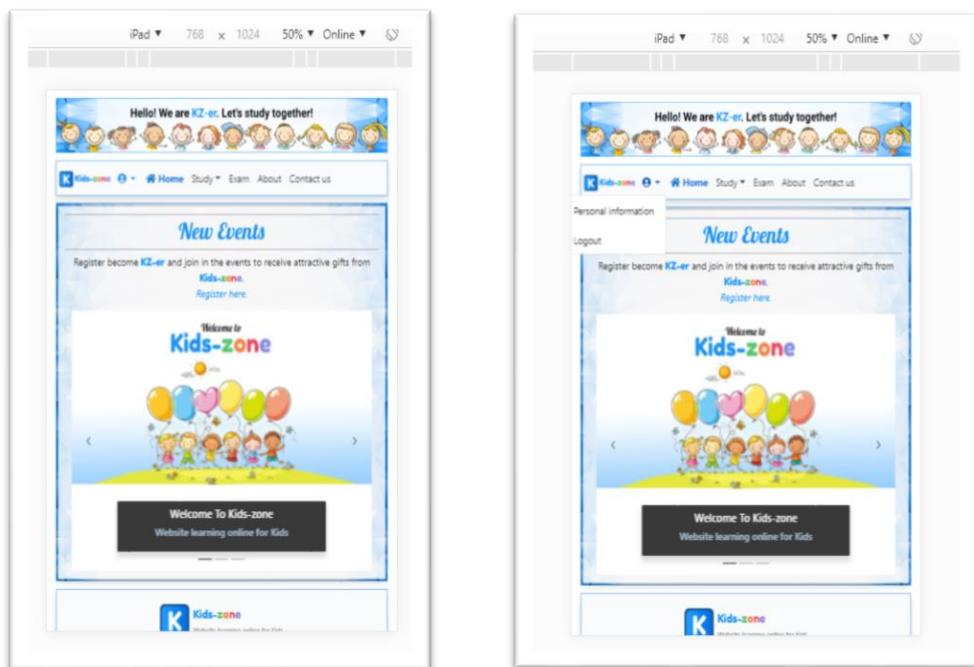
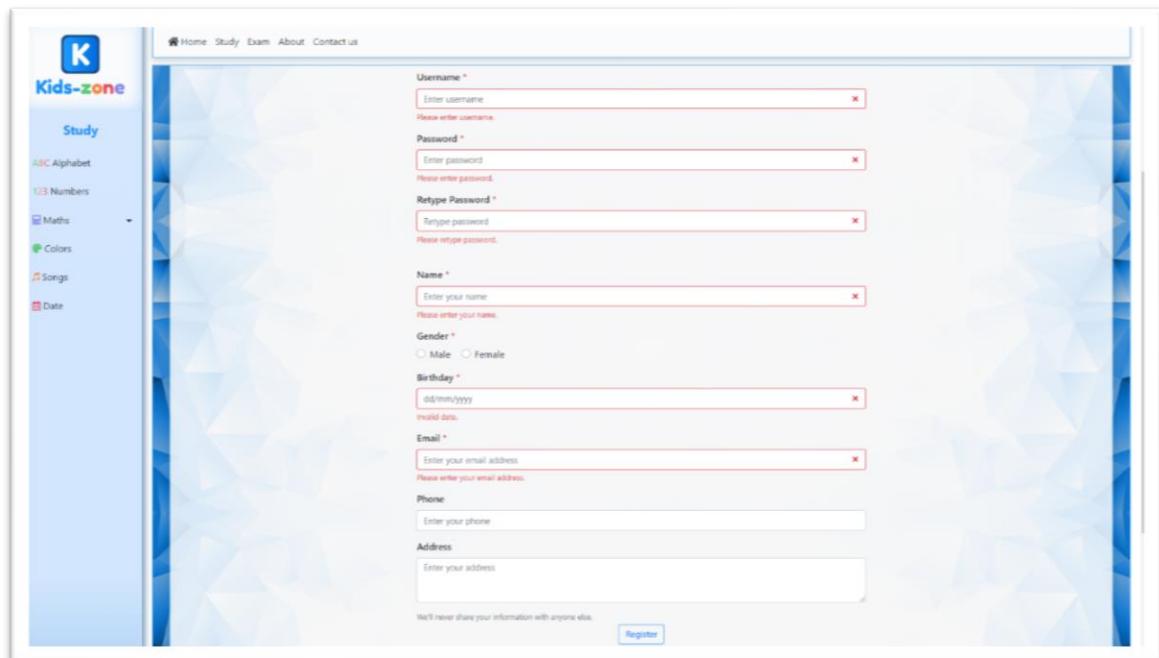


Figure 12 – Login page on Tablet



Home Study Exam About Contact us

Username *

Please enter username.

Enter username

Password *

Please enter password.

Enter password

Retype Password *

Please retype password.

Enter password

Name *

Please enter your name.

Enter your name

Gender *

Male Female

Birthday *

dd/mm/yyyy

Invalid date.

Email *

Please enter your email address.

Enter your email address

Phone

Enter your phone

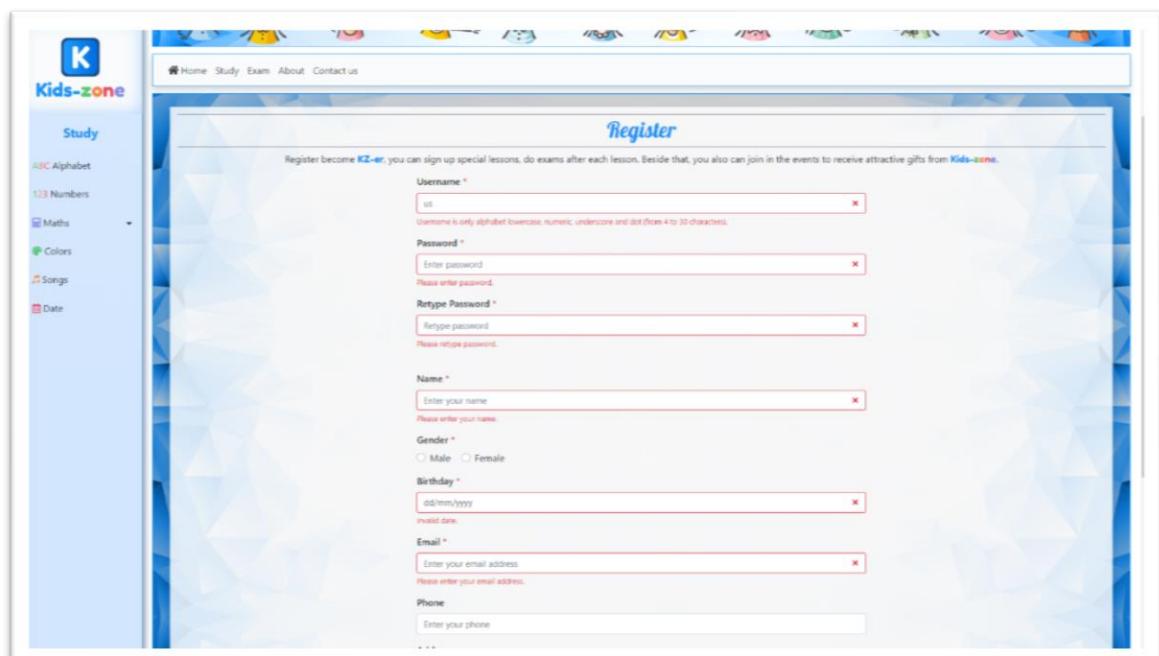
Address

Enter your address

We'll never share your information with anyone else.

Register

Figure 13 -Register page on PC



Home Study Exam About Contact us

Register

Register become KZ-er, you can sign up special lessons, do exams after each lesson. Beside that, you also can join in the events to receive attractive gifts from Kids-zone.

Username *

Username is only alphabet, lowercase, numeric, underscore and dot (max 4 to 30 characters).

Enter us

Password *

Please enter password.

Enter password

Retype Password *

Please retype password.

Enter password

Name *

Please enter your name.

Enter your name

Gender *

Male Female

Birthday *

dd/mm/yyyy

Invalid date.

Email *

Please enter your email address.

Enter your email address

Phone

Enter your phone

Figure 14 -Register page on PC

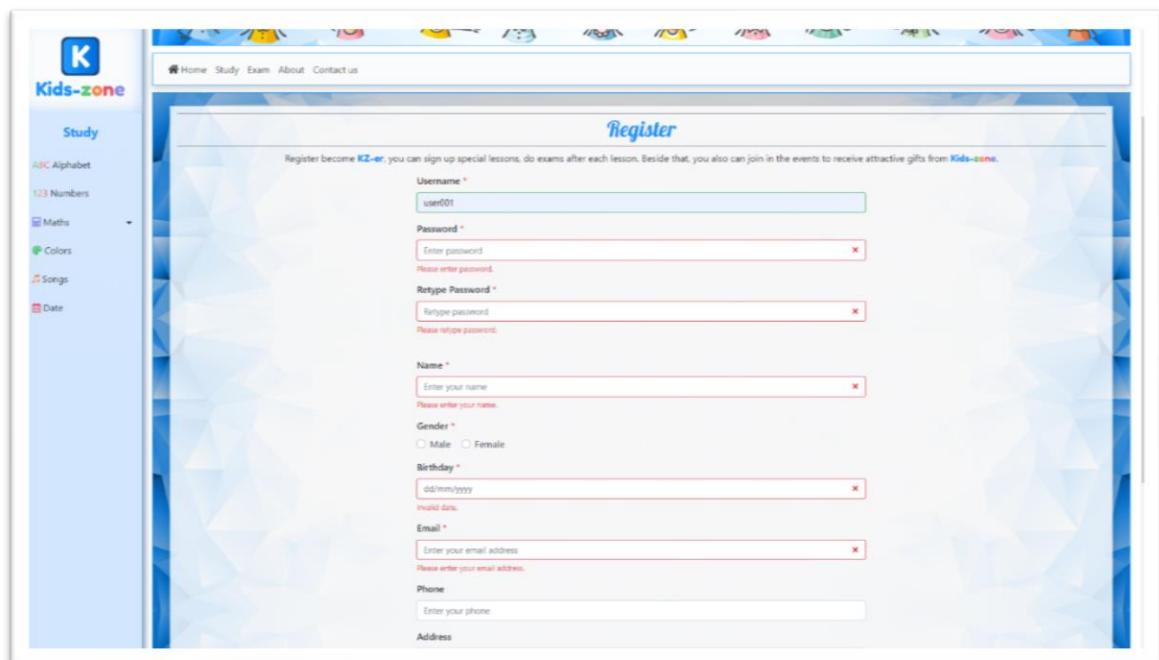


Figure 15 -Register page

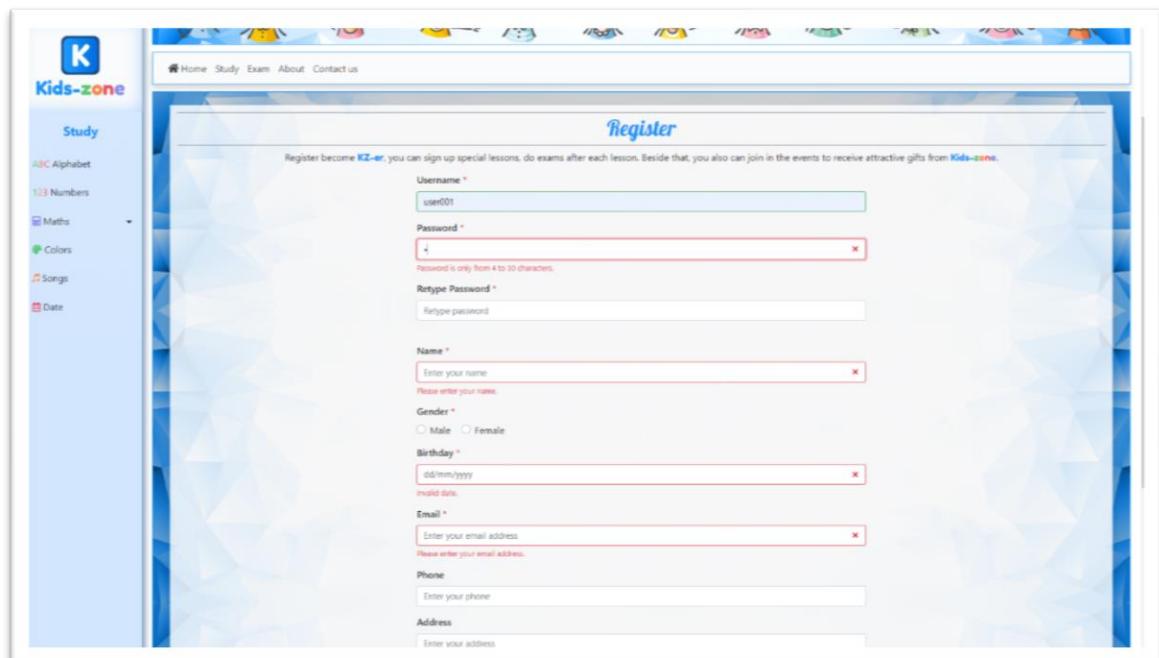


Figure 16 -Register page on PC

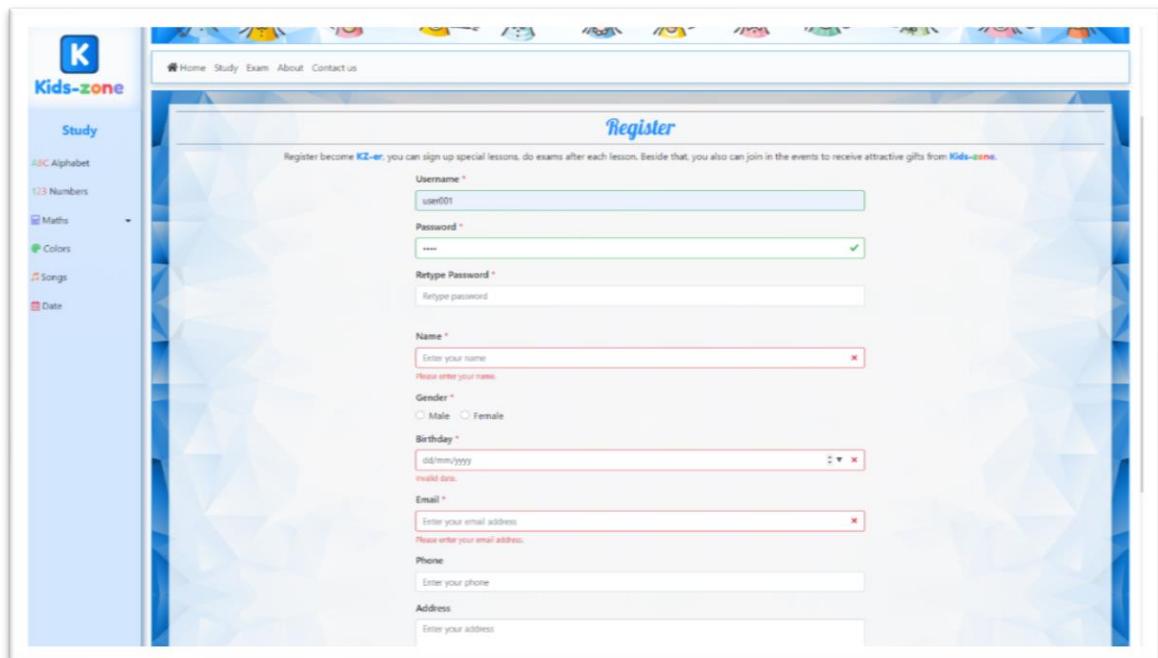


Figure 17 -Register page on PC

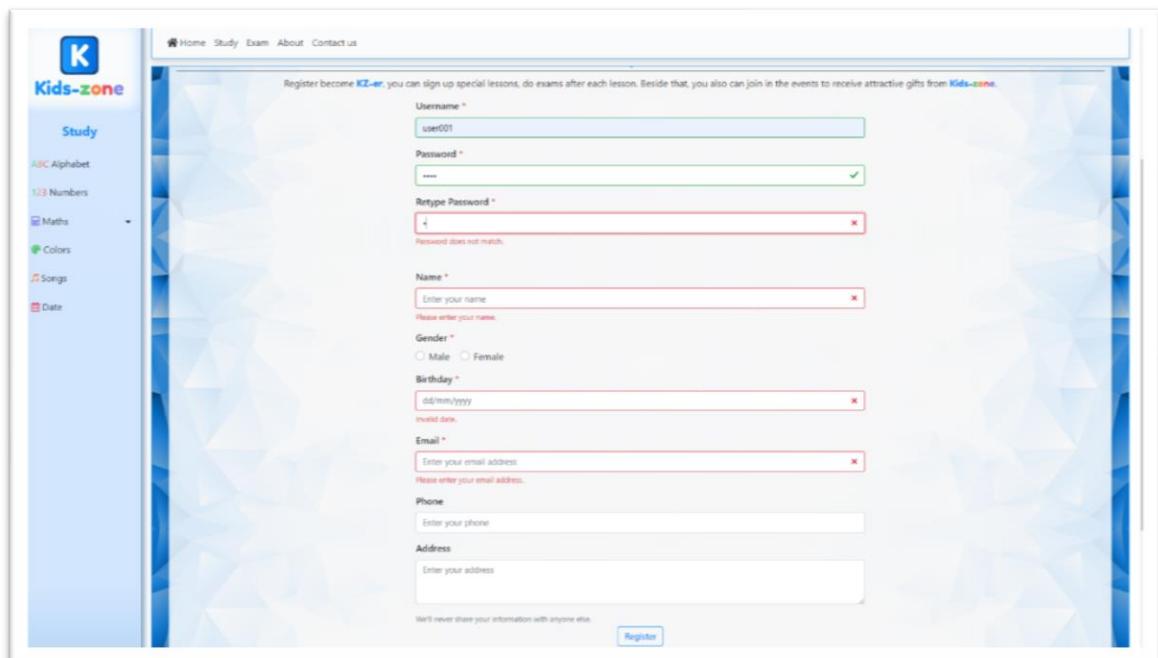
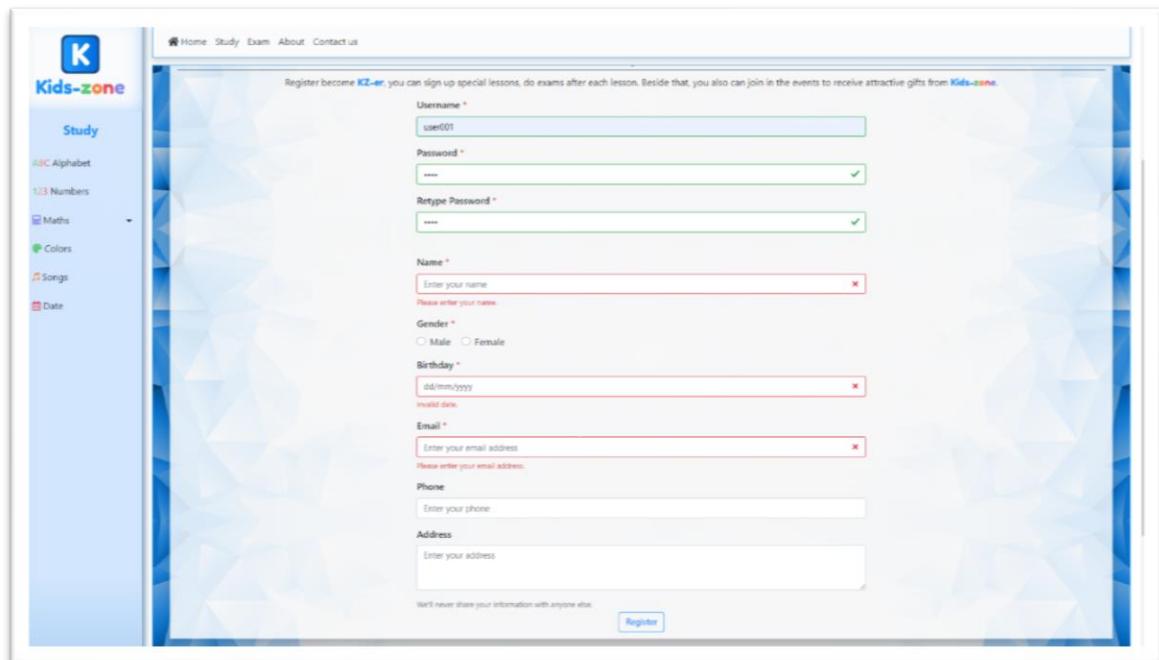


Figure 18 -Register page on PC



Register become KZ-er, you can sign up special lessons, do exams after each lesson. Beside that, you also can join in the events to receive attractive gifts from Kids-zone.

Username *
user001

Password *

Retype Password *

Name *
Enter your name
Please enter your name.

Gender *
 Male Female

Birthday *
dd/mm/yyyy
invalid date.

Email *
Enter your email address
Please enter your email address.

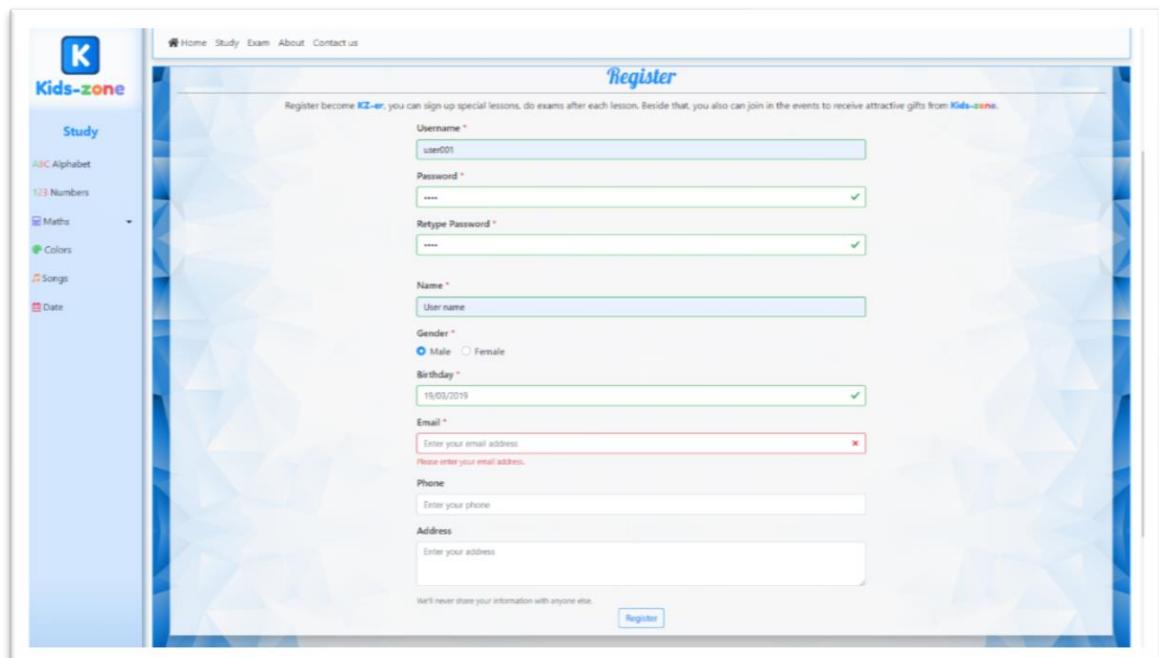
Phone
Enter your phone

Address
Enter your address

We'll never share your information with anyone else.

Register

Figure 19 -Register page on PC



Register become KZ-er, you can sign up special lessons, do exams after each lesson. Beside that, you also can join in the events to receive attractive gifts from Kids-zone.

Username *
user001

Password *

Retype Password *

Name *
User name

Gender *
 Male Female

Birthday *
19/03/2019

Email *
Enter your email address
Please enter your email address.

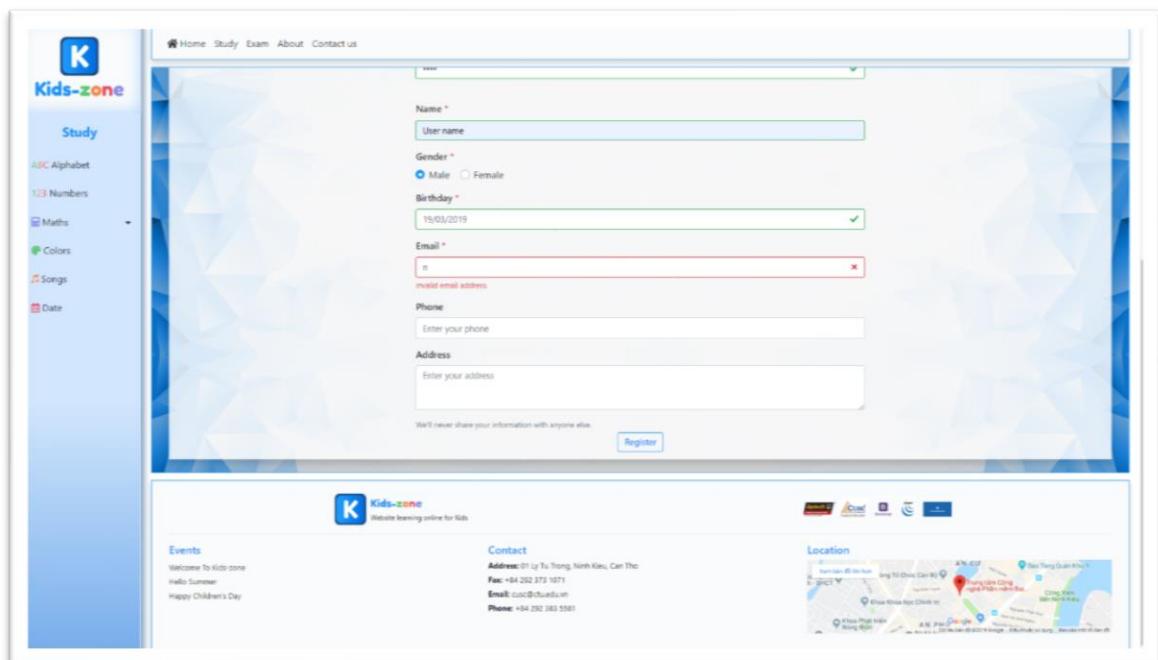
Phone
Enter your phone

Address
Enter your address

We'll never share your information with anyone else.

Register

Figure 20 -Register page on PC

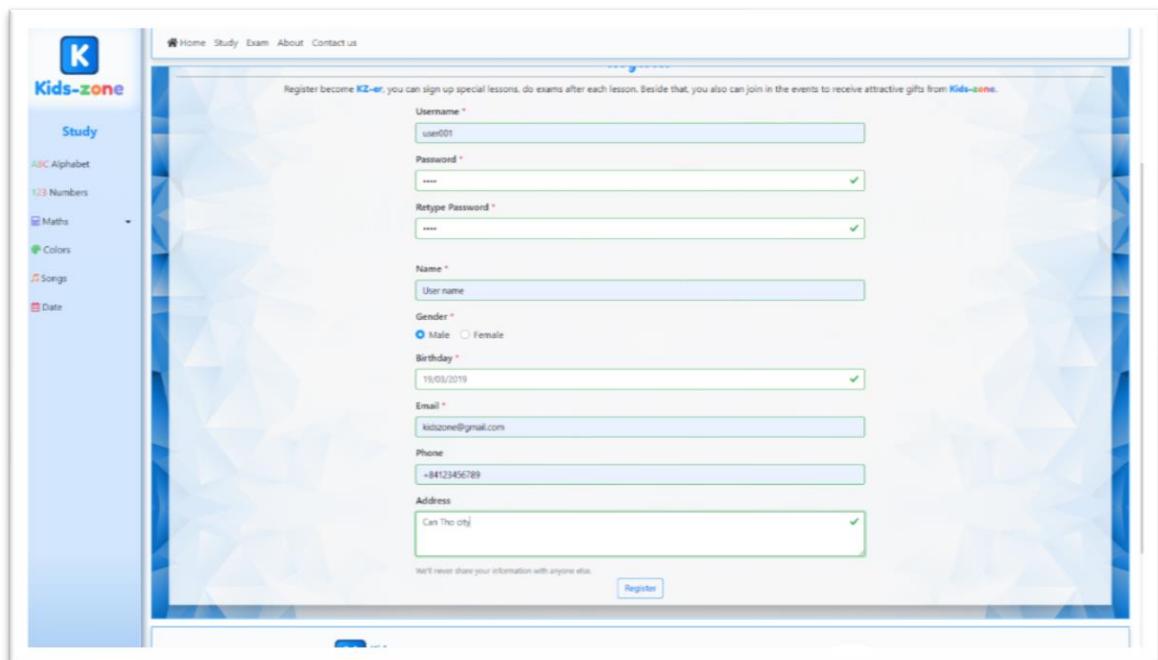


The registration page on the Kids-zone website. The sidebar on the left lists study categories: ABC Alphabet, Numbers, Maths, Colors, Songs, and Date. The main content area contains a registration form with the following fields:

- Name *: User name
- Gender *: Male (radio button selected)
- Birthday *: 19/03/2019
- Email *: n (invalid email address)
- Phone: Enter your phone
- Address: Enter your address

A note at the bottom states: "We'll never share your information with anyone else." A "Register" button is located at the bottom right.

Figure 21 -Register page on PC



The registration page on the Kids-zone website. The sidebar on the left lists study categories: ABC Alphabet, Numbers, Maths, Colors, Songs, and Date. The main content area contains a registration form with the following fields:

- Username *: user001
- Password *: ****
- Retype Password *: ****
- Name *: User name
- Gender *: Male (radio button selected)
- Birthday *: 19/03/2019
- Email *: kidszone@gmail.com
- Phone: +84123456789
- Address: Can Tho city

A note at the bottom states: "We'll never share your information with anyone else." A "Register" button is located at the bottom right.

Figure 22 -Register page on PC

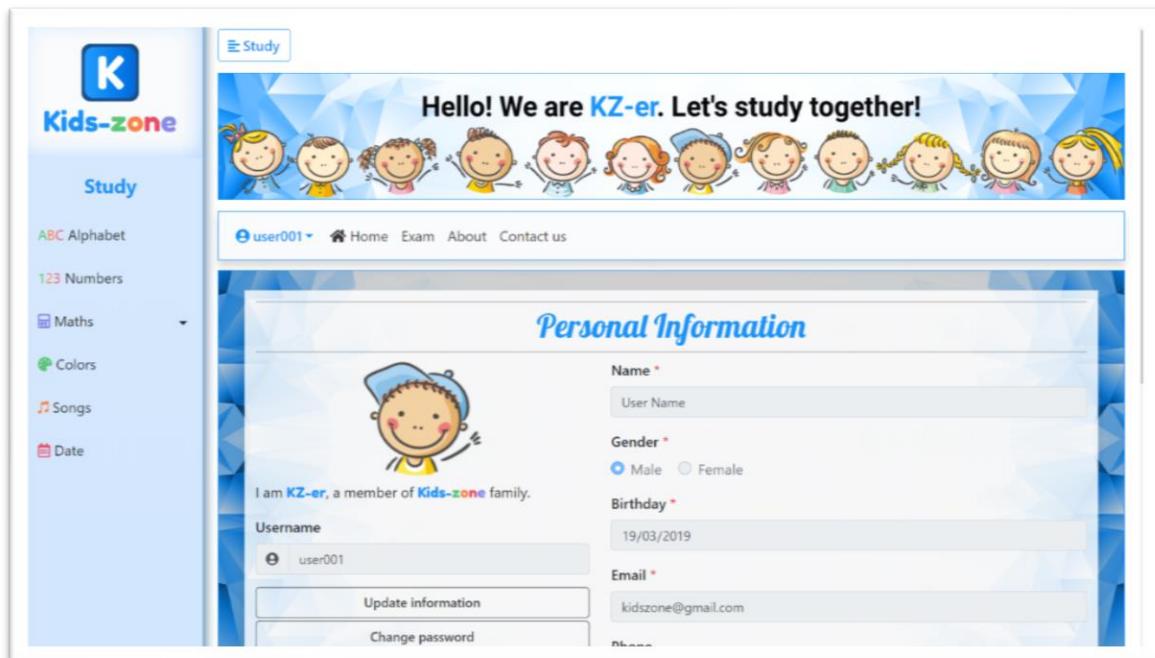


Figure 23 -User page on PC

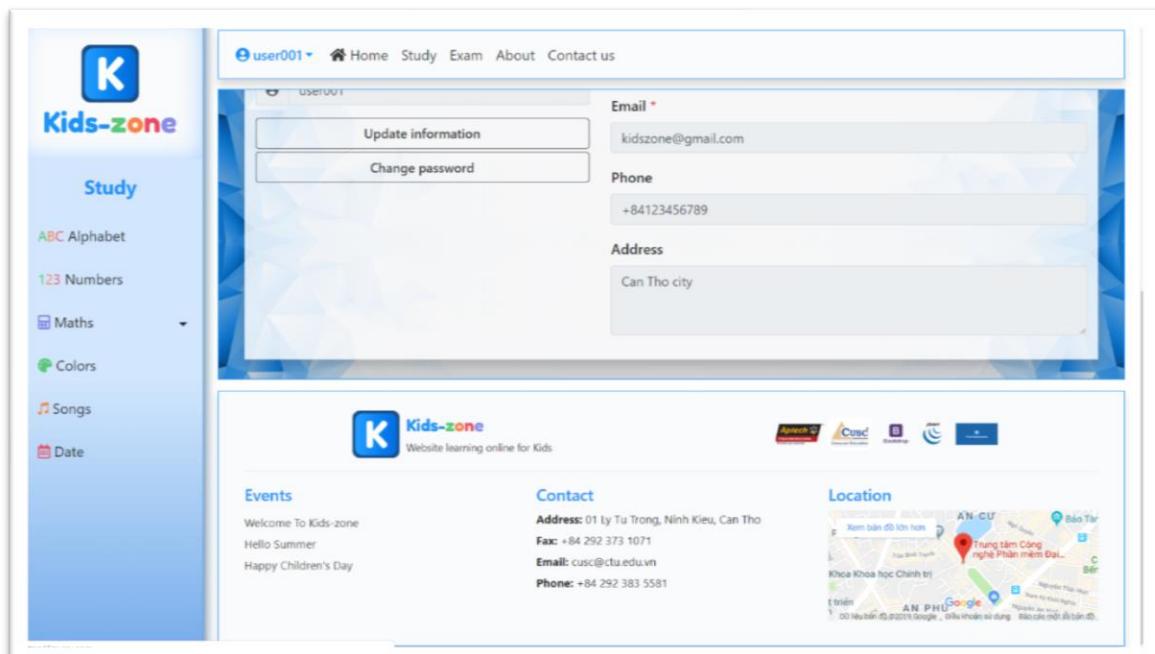


Figure 24-User page on PC

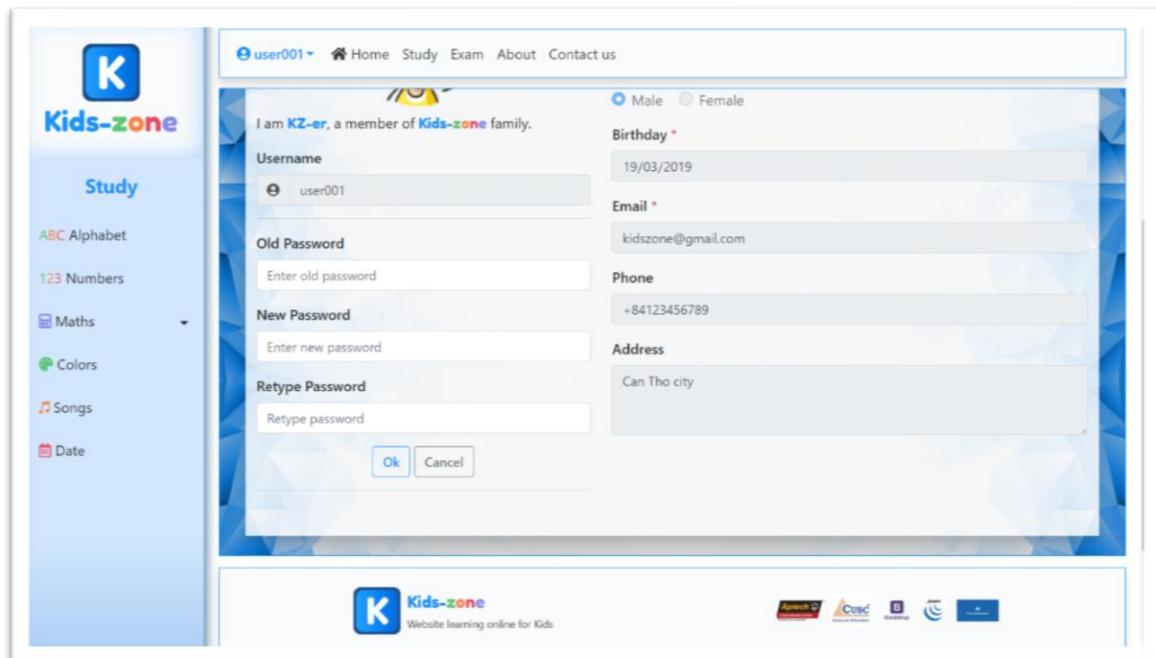


Figure 25 -Change password on PC

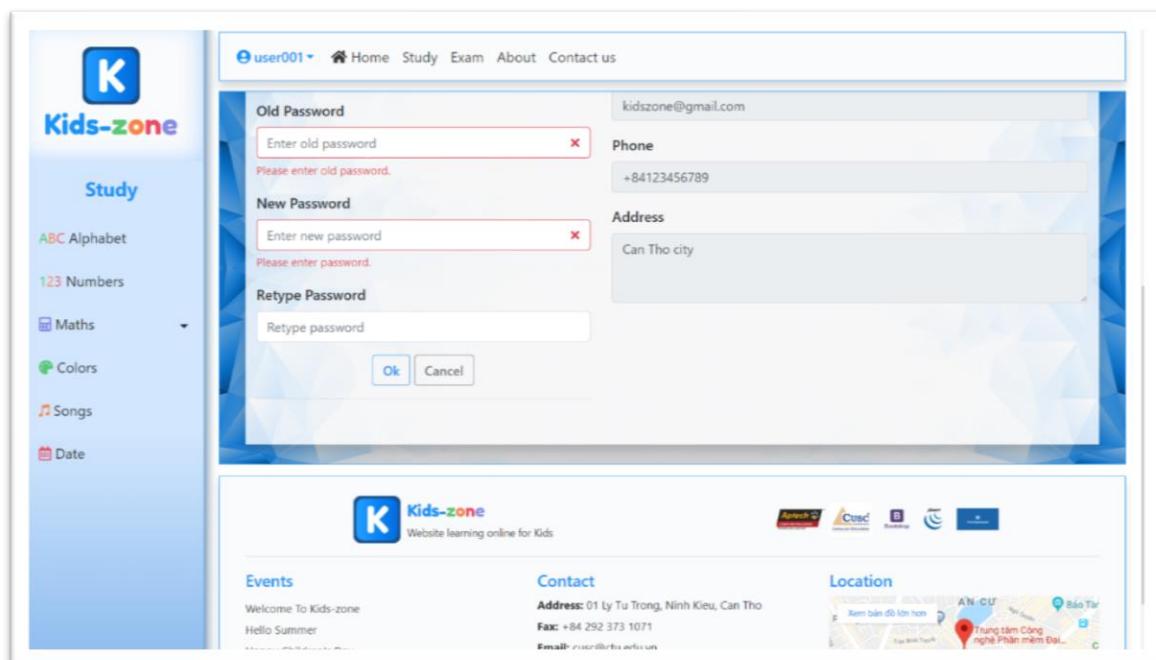
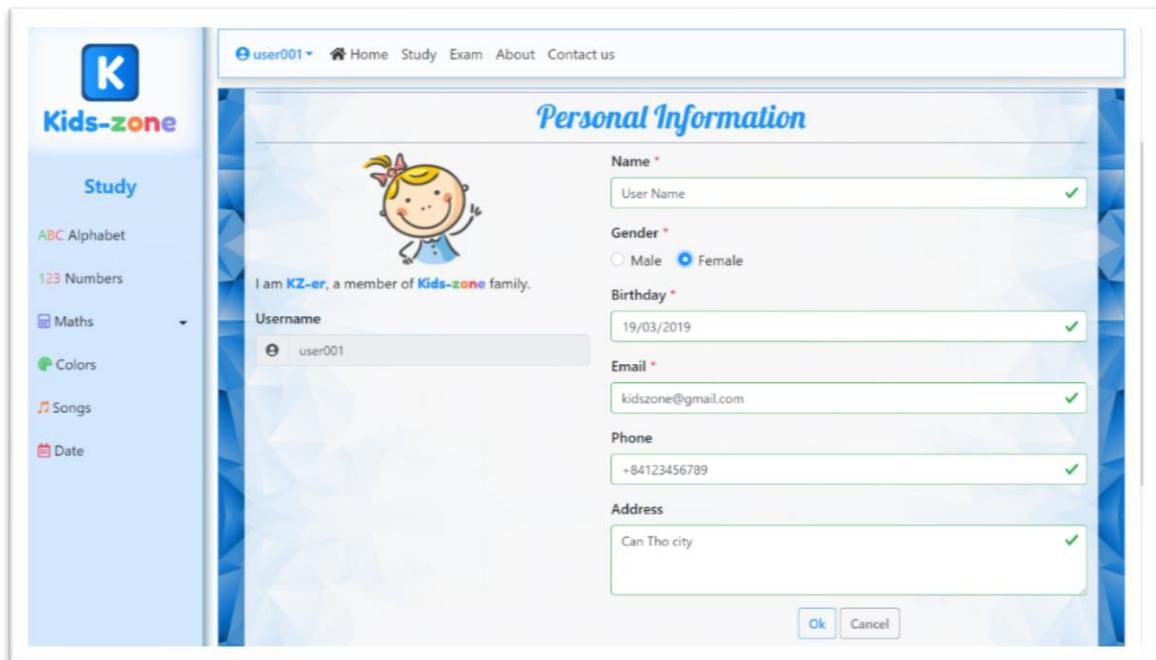


Figure 26 - Change password on PC



The screenshot shows the 'Personal Information' update form. The form fields are:

- Name *: User Name (Valid)
- Gender *: Female (Selected)
- Birthday *: 19/03/2019 (Valid)
- Email *: kidszone@gmail.com (Valid)
- Phone: +84123456789 (Valid)
- Address: Can Tho city (Valid)

Figure 27 -Update Information user on PC

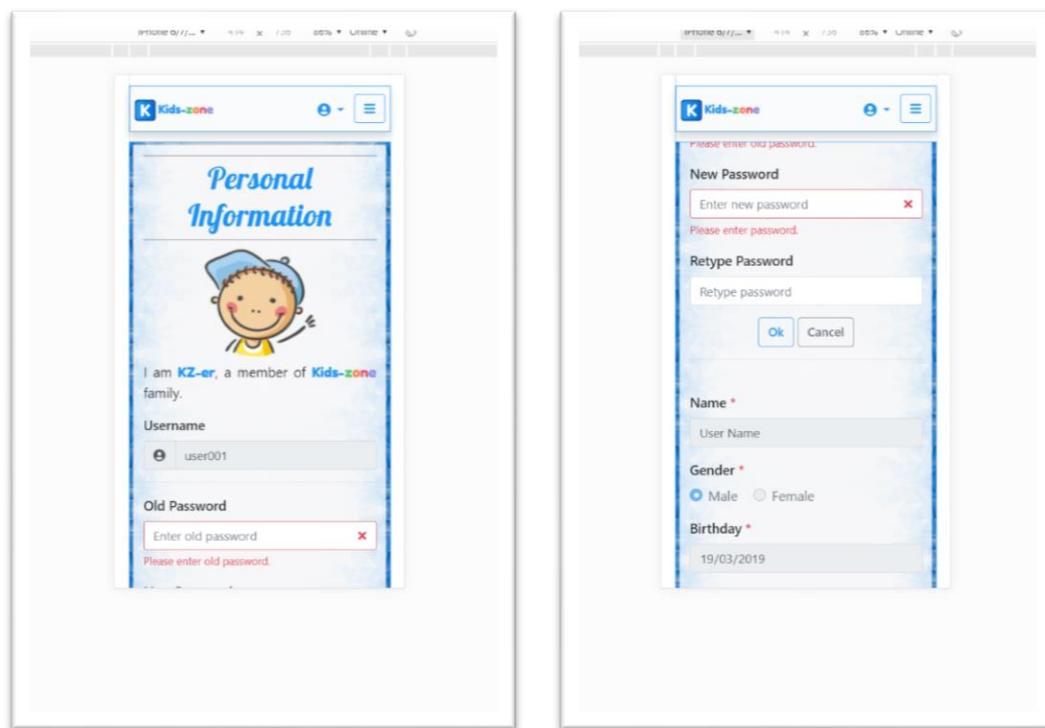


Figure 28 Change password on Mobile

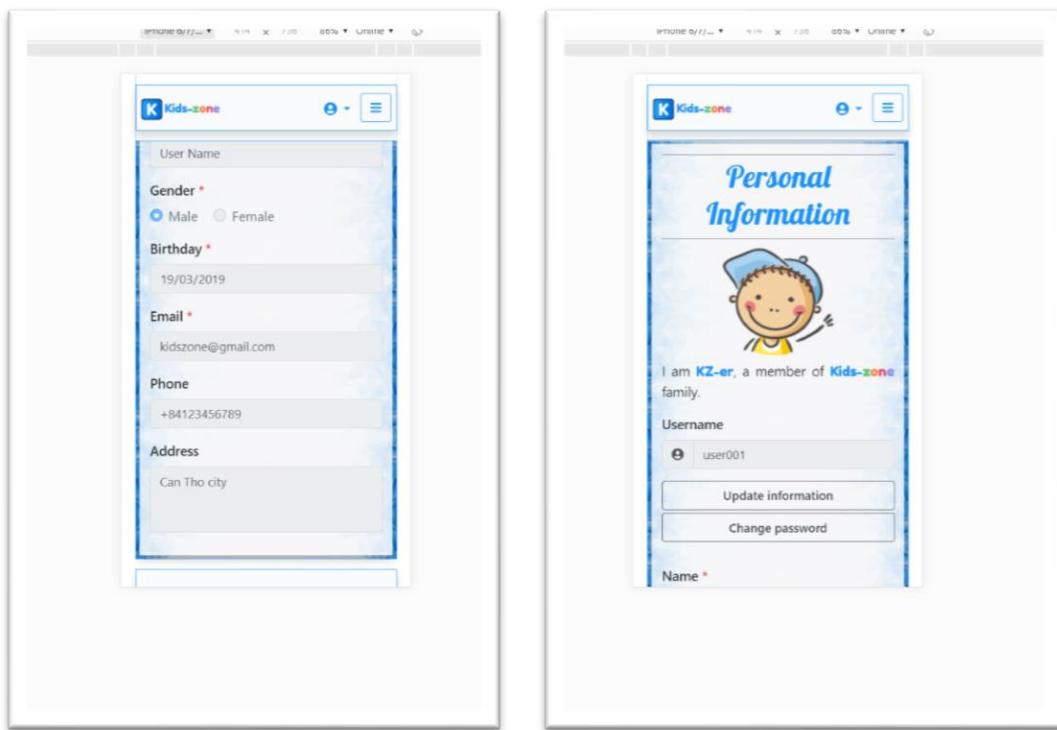


Figure 29 – User page on Mobile

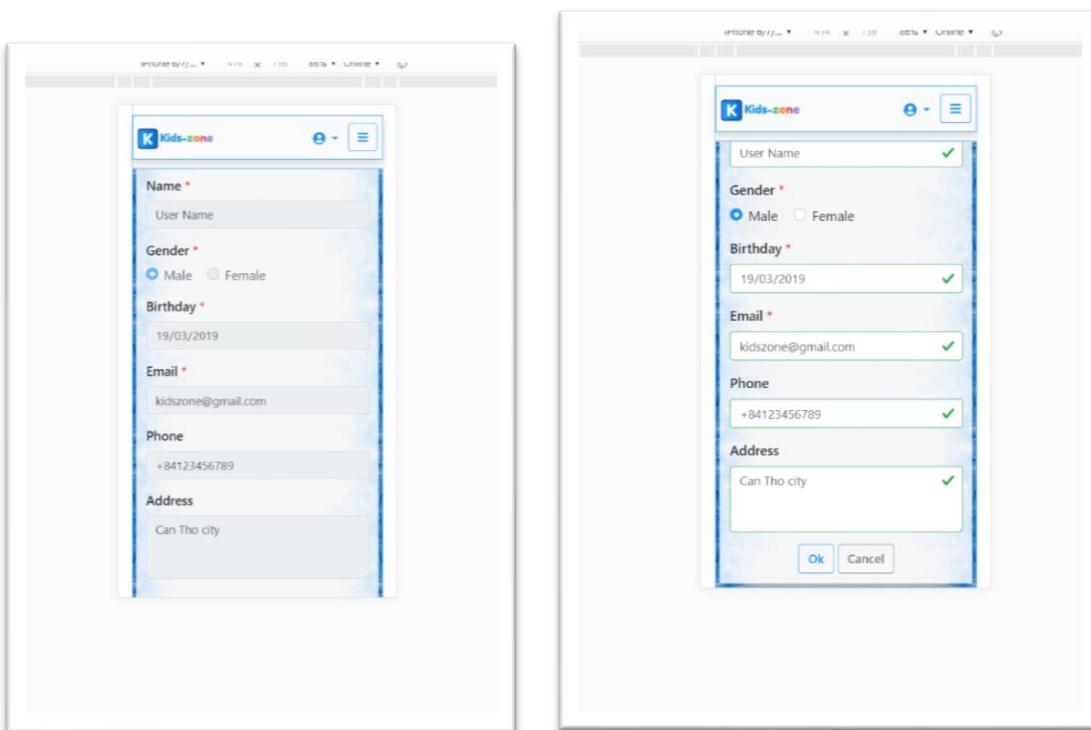


Figure 30 - Update Information user on PC

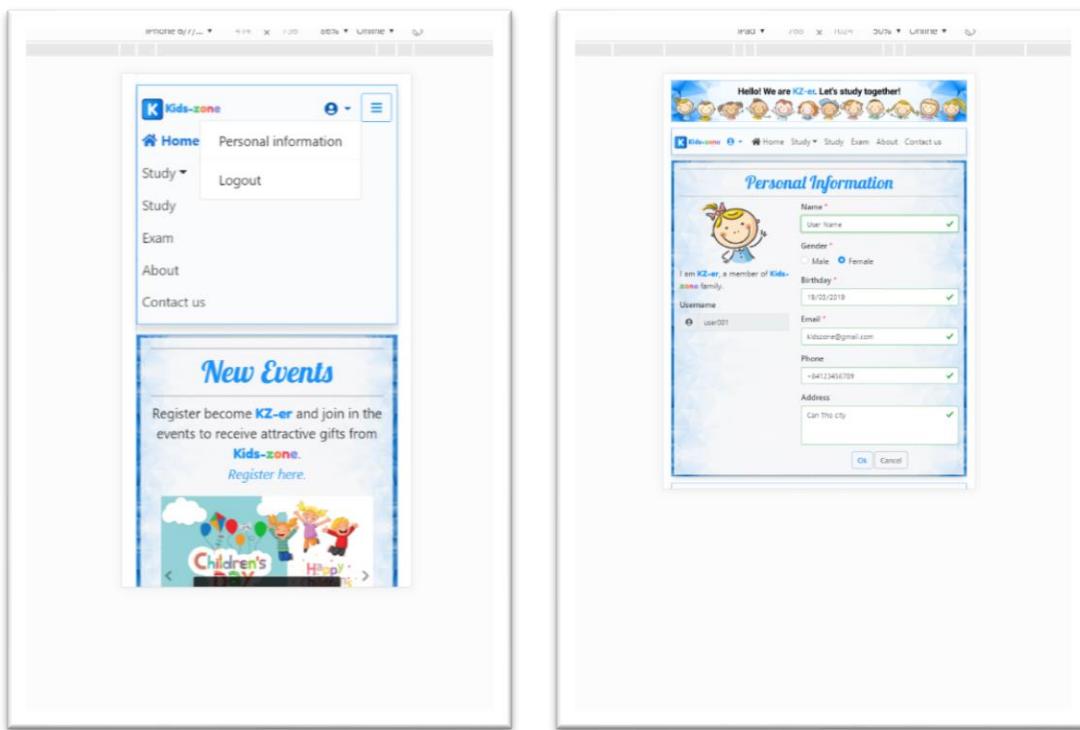


Figure 31 - Update Information user on Tablet

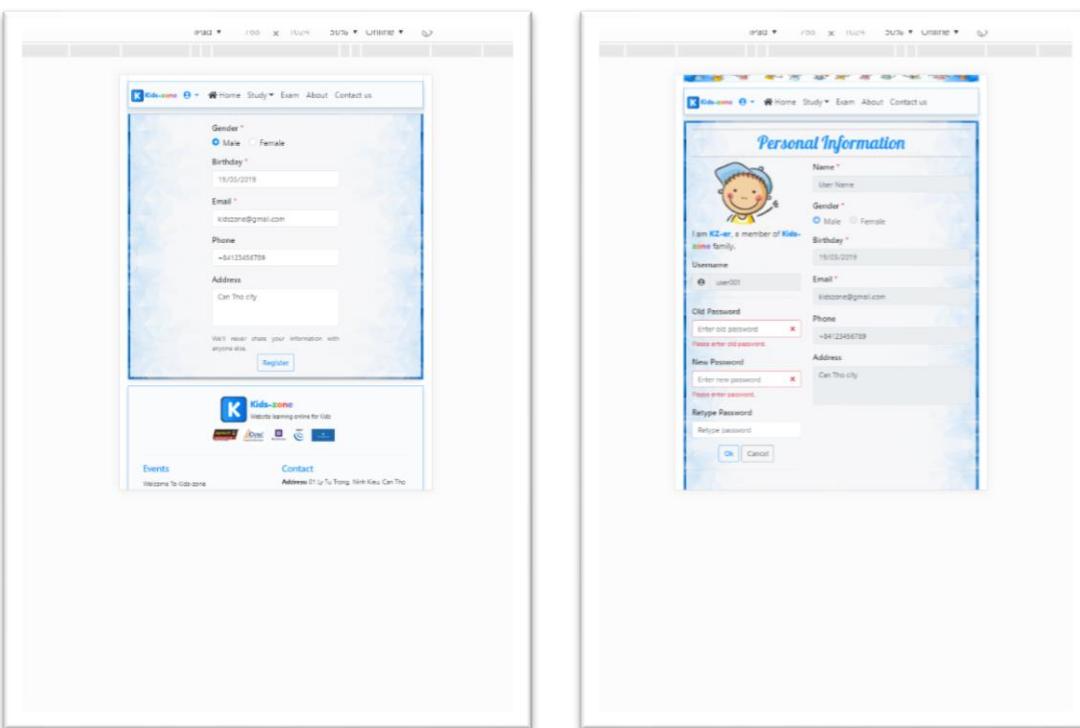


Figure 32 - Change password on Tablet

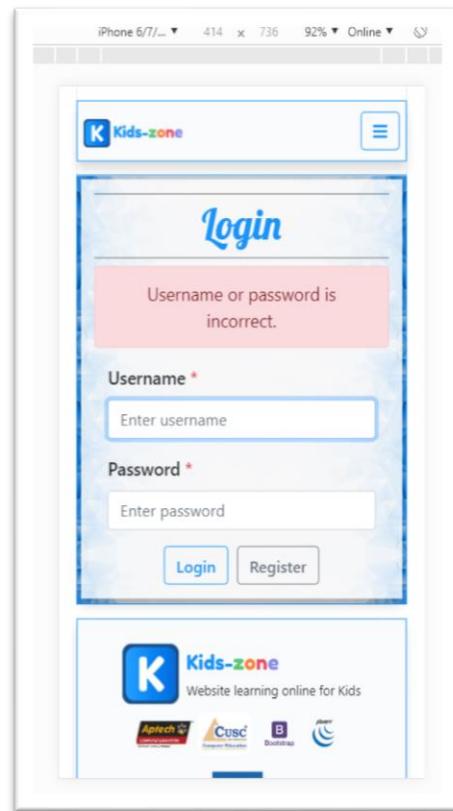


Figure 32 - Login page on Mobile



Figure 43 - Login page on PC



Figure 34-About page on PC



Figure 35-About page on PC

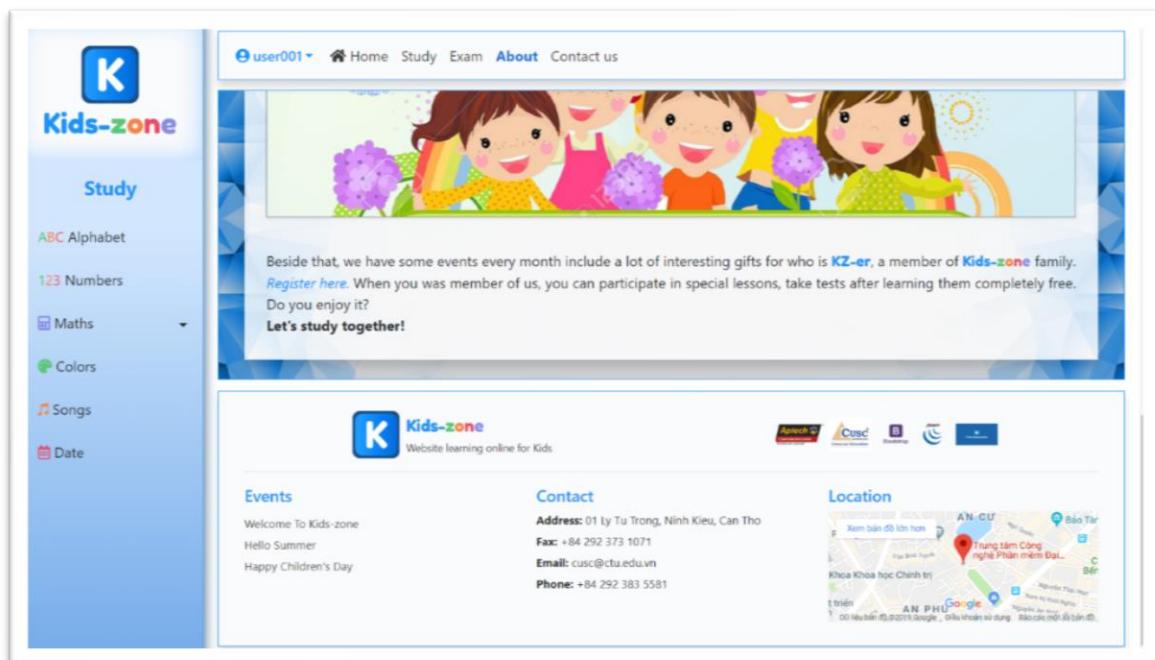


Figure 36-About page on PC

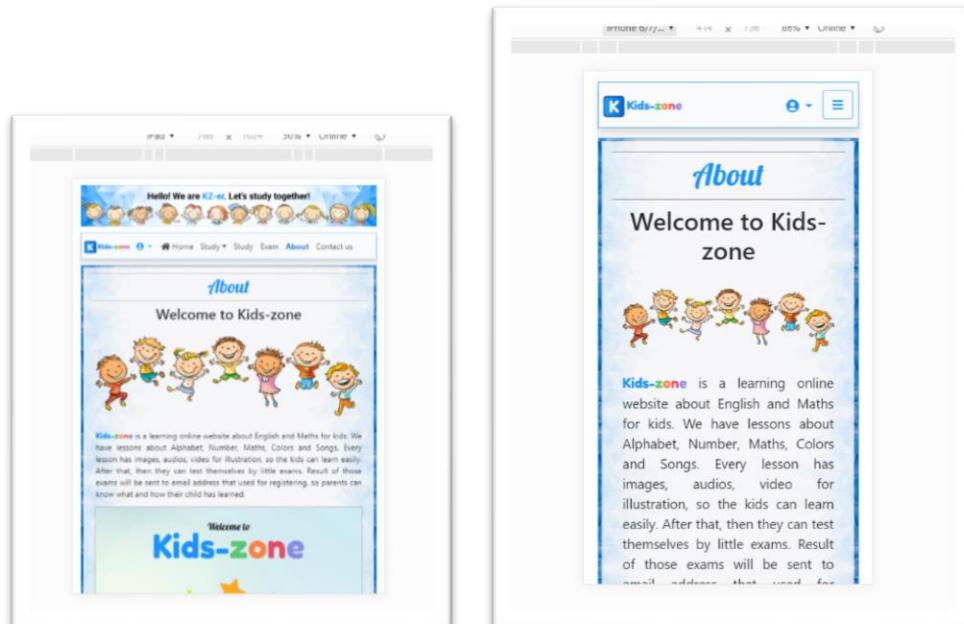


Figure 37-About page on Tablet and Mobile

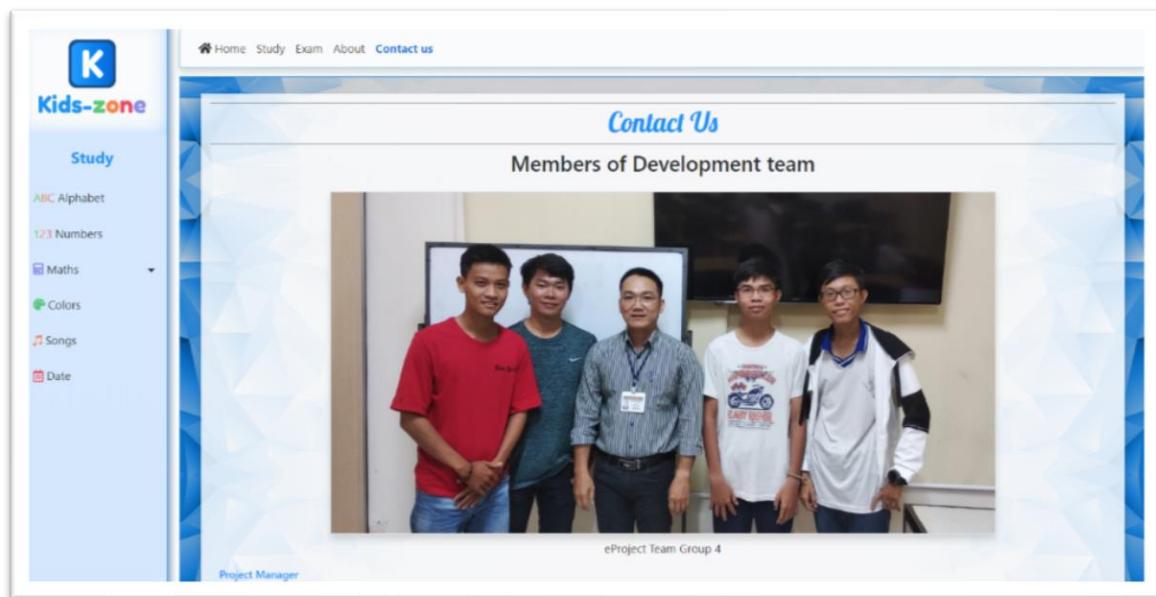


Figure 38-Contact us page on PC

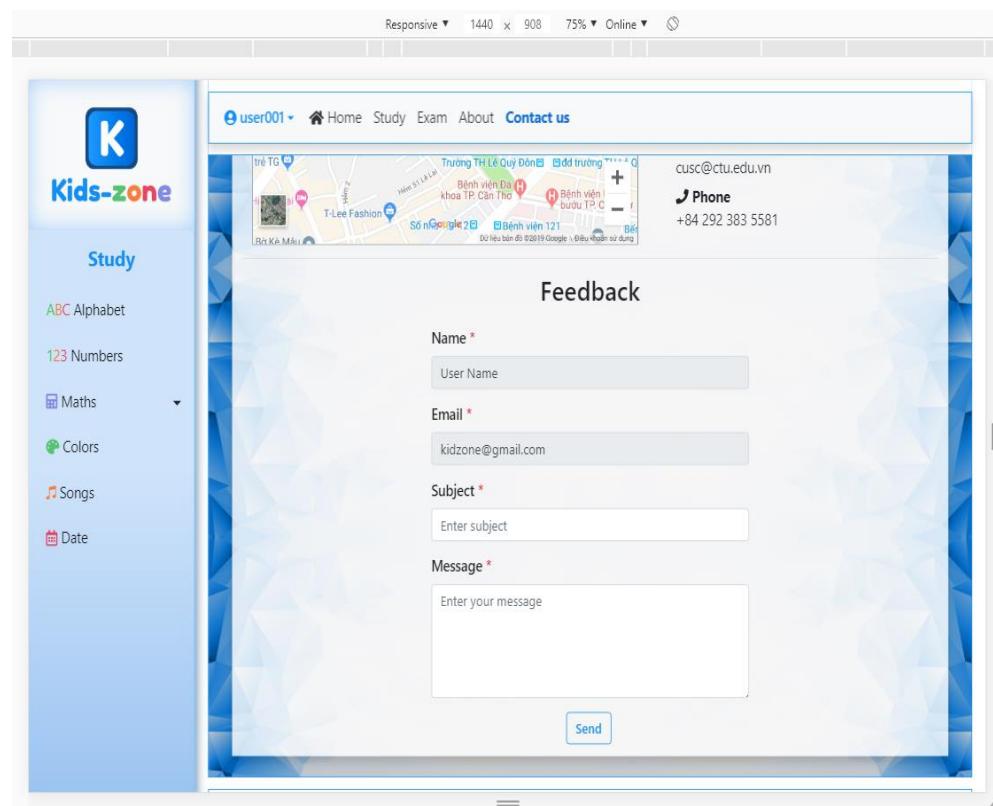


Figure 39-Contact us page on PC

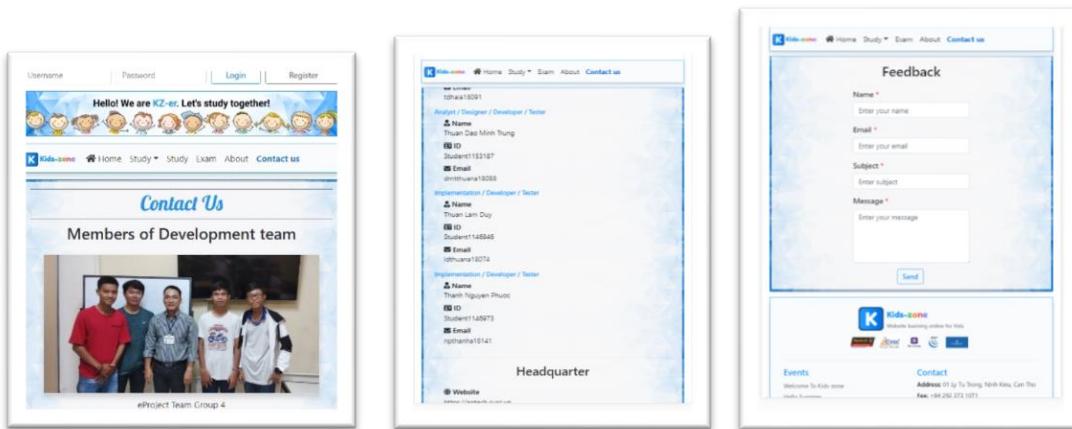


Figure 40-Contact us page on Tablet

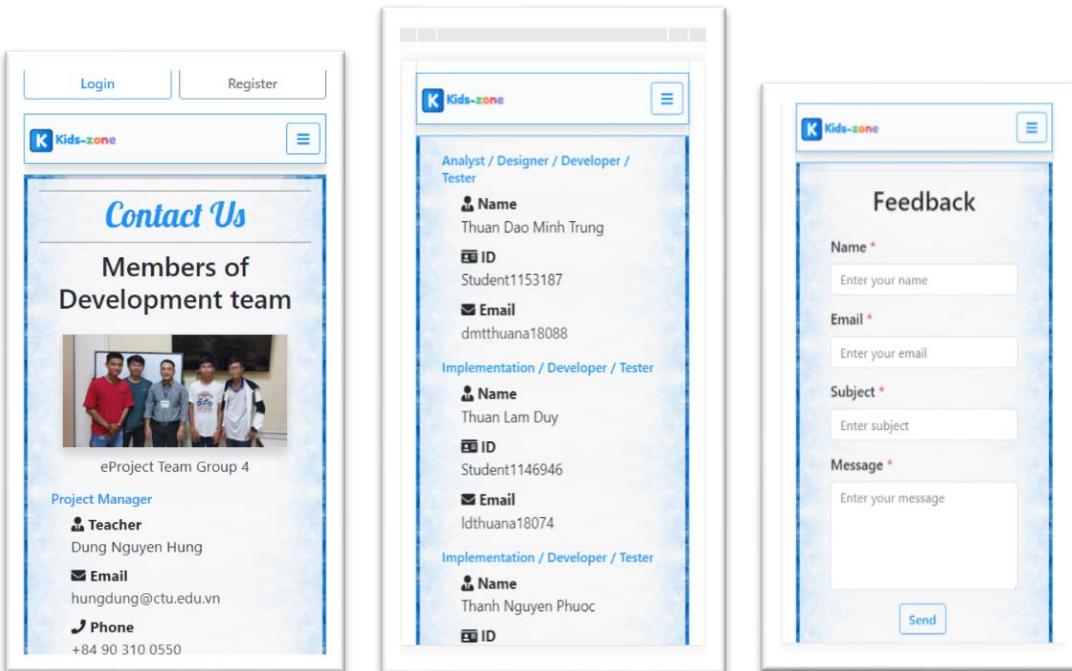


Figure 41-Contact us page on Mobile

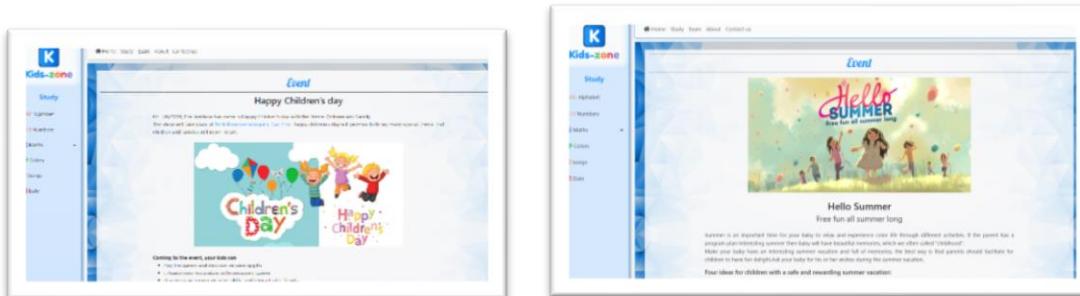


Figure 42-Events page

#	Exam	Finished date	Result
1	Exam 1	null	null
2	Exam 2	null	null

Figure 43 – Exam page on PC

Figure 44 – Exam page on PC, submit the test

Question 3: Colors
The sun is ...
Result: The sun is yellow

Question 4: Maths
 $1 + 2 = \dots$
Result: $1 + 2 = 3$

OK

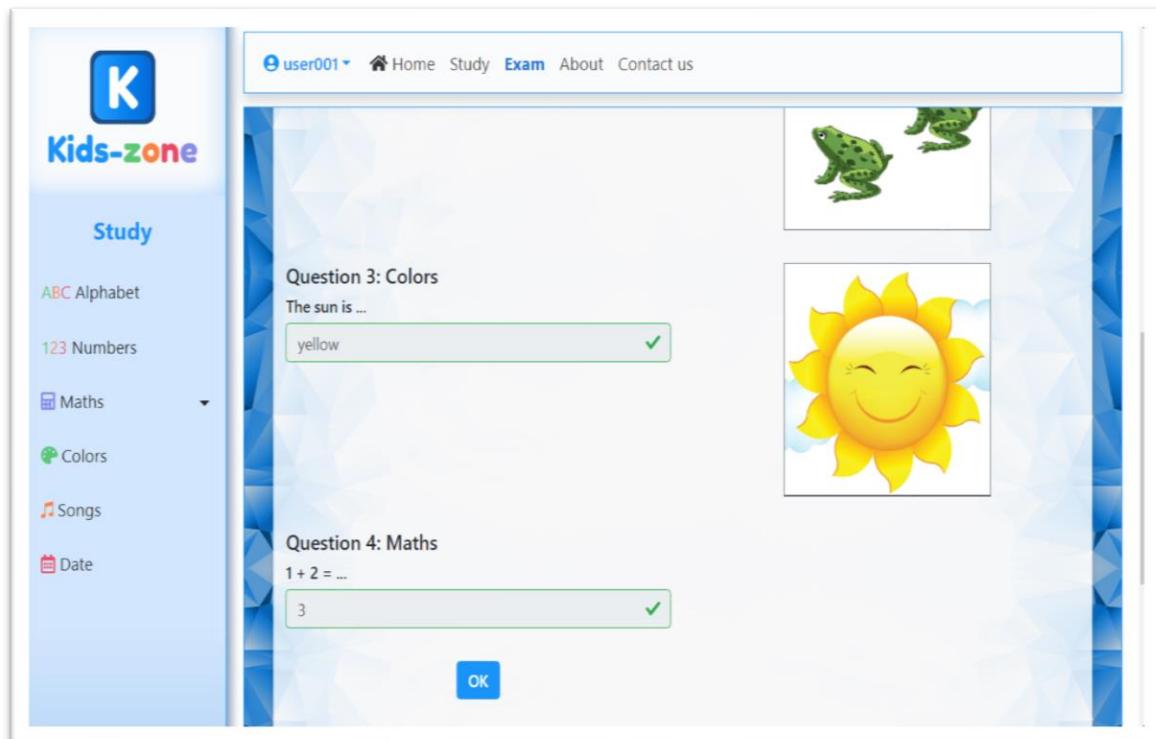
Figure 45 – Exam page on PC, submit the test

Exam 1
19-2-2019

Question 1: Alphabet
I have an ...pple
a ✓

Question 2: Numbers
How many frogs are there? - There are ... frogs
3 ✓

Figure 46 – Exam page on PC, submit the test



Kids-zone

Study

- ABC Alphabet
- 123 Numbers
- Maths
- Colors
- Songs
- Date

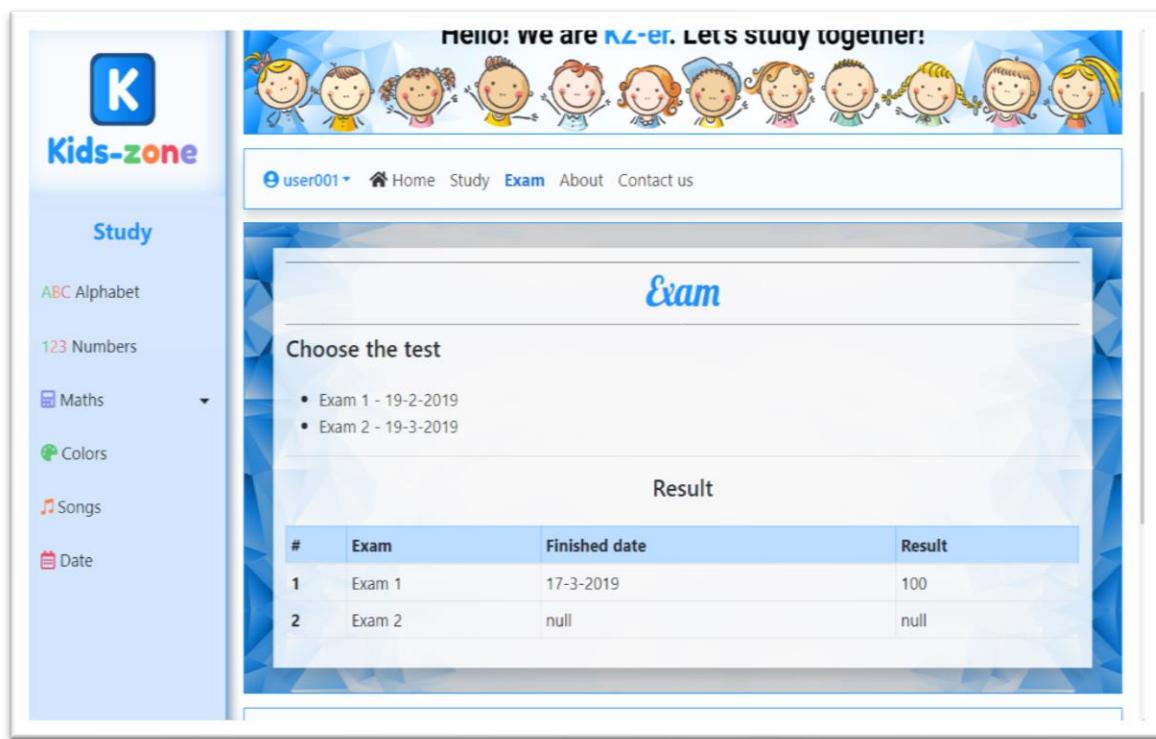
user001 Home Study Exam About Contact us

Question 3: Colors
The sun is ...
yellow ✓

Question 4: Maths
 $1 + 2 = \dots$
3 ✓

OK

Figure 47 – Exam page on PC, submit the test



Kids-zone

Study

- ABC Alphabet
- 123 Numbers
- Maths
- Colors
- Songs
- Date

user001 Home Study Exam About Contact us

Hello! we are KZ-er. Let's study together!

Exam

Choose the test

- Exam 1 - 19-2-2019
- Exam 2 - 19-3-2019

Result

#	Exam	Finished date	Result
1	Exam 1	17-3-2019	100
2	Exam 2	null	null

Figure 48 – Exam page on PC, after taking test, the result will be shown

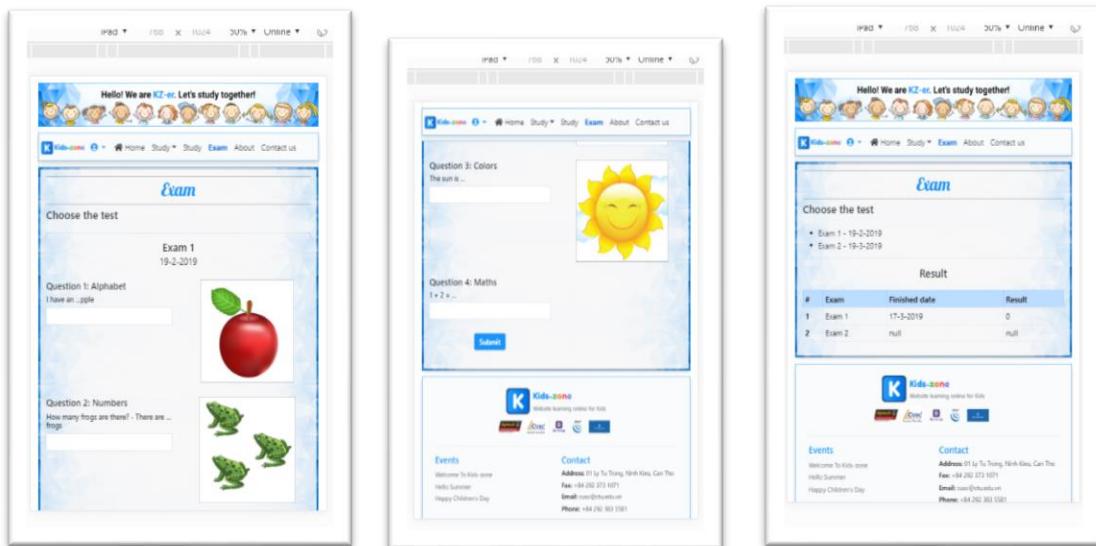


Figure 49 – Exam page on Tablet

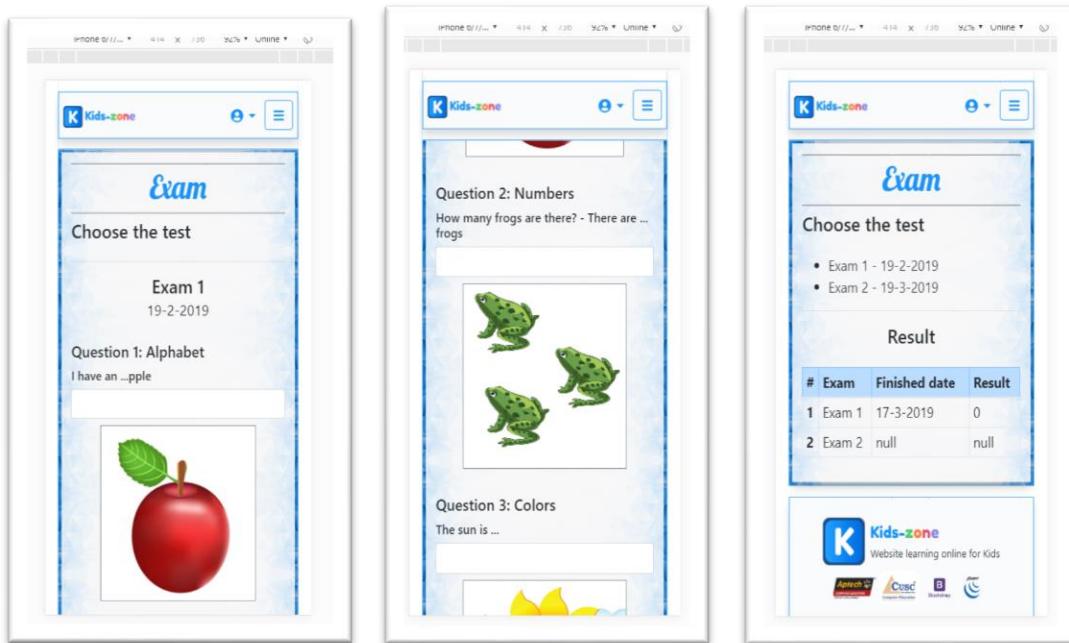


Figure 50 – Exam page on Mobile



Figure 51 – Alphabet page on PC



Figure 52 – Alphabet page on PC

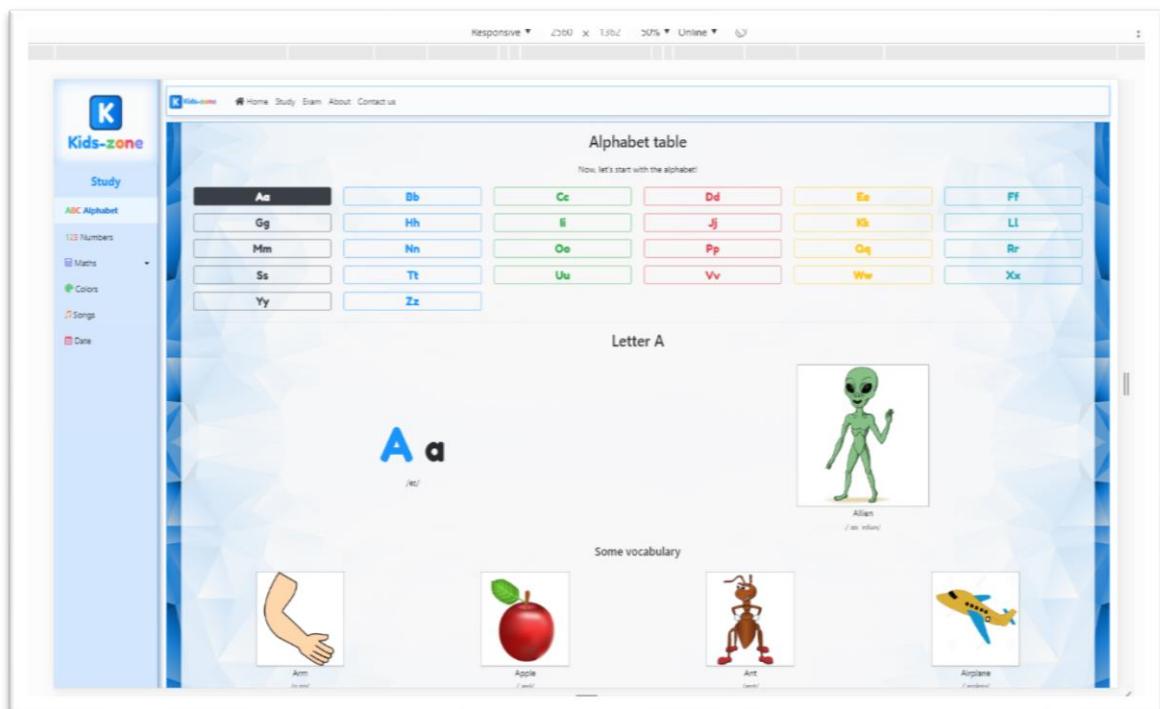


Figure 53 – Alphabet page learning letter on PC

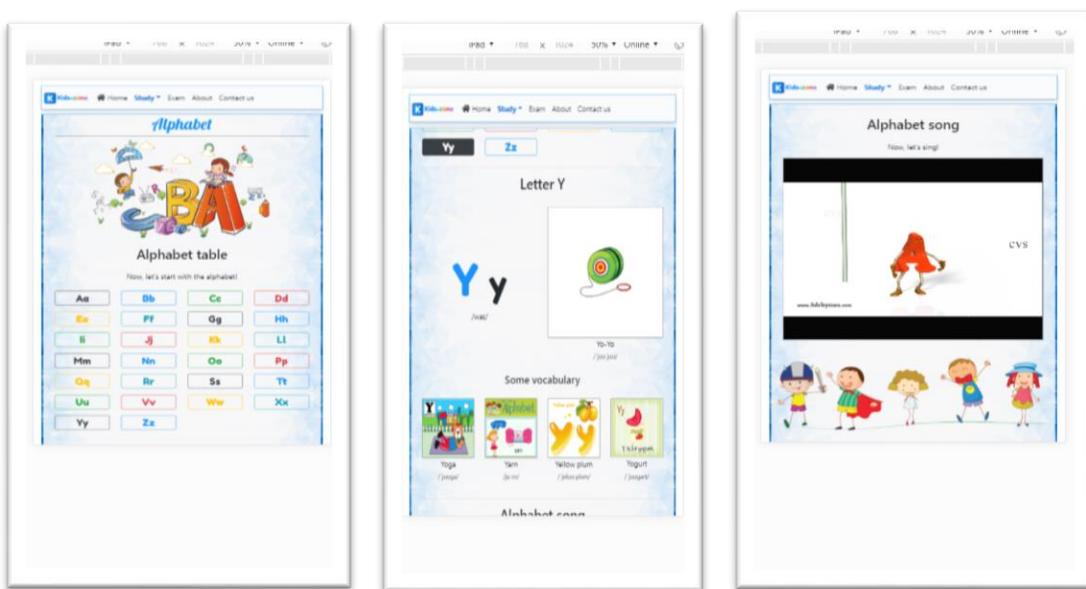


Figure 54 – Alphabet page learning letter on Tablet

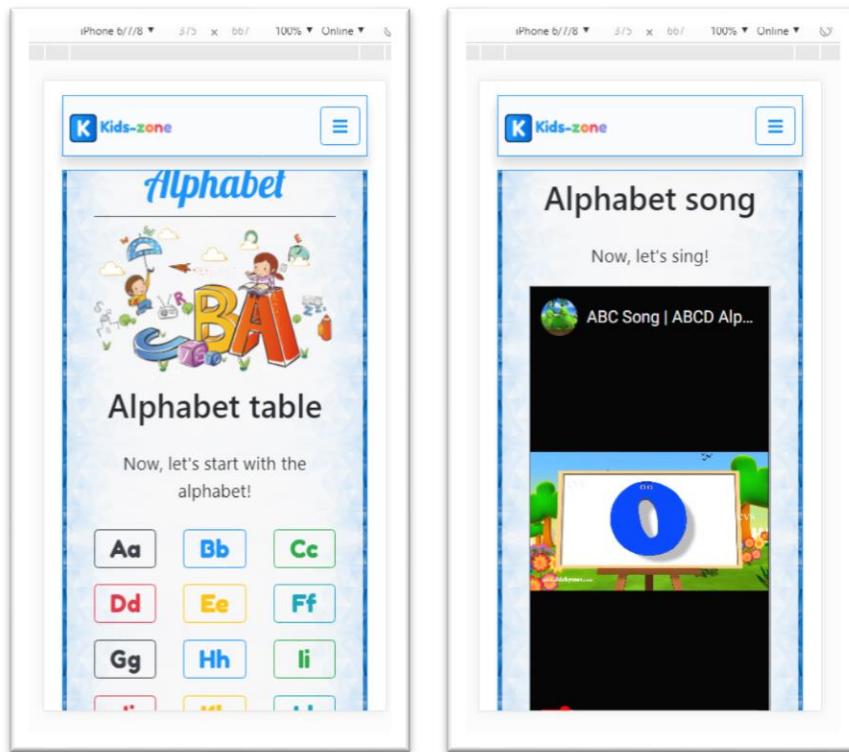


Figure 55 – Alphabet page learning letter on Mobile

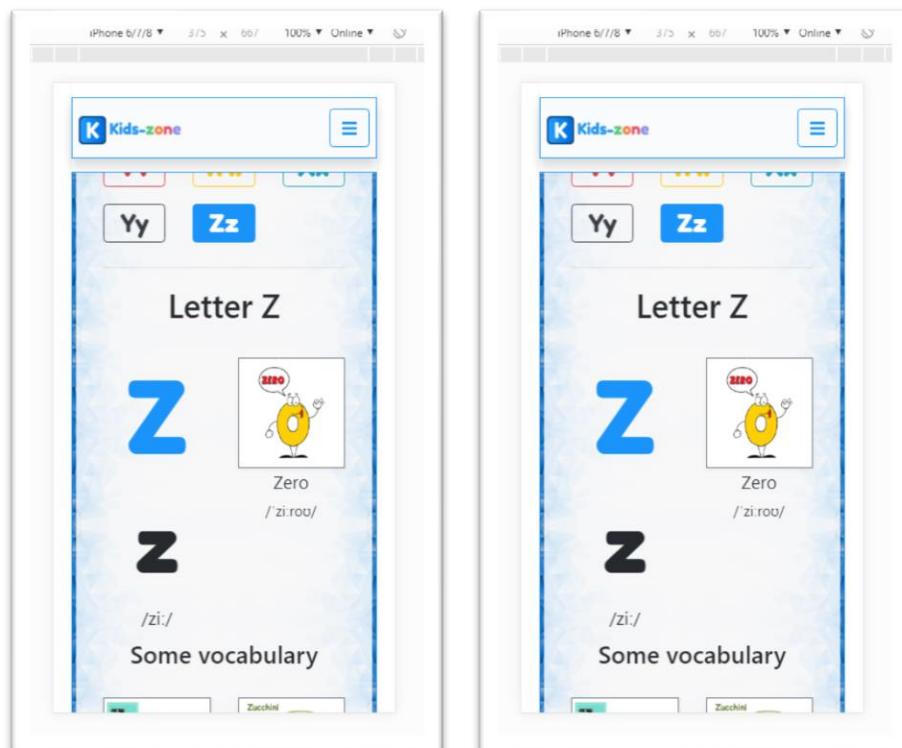


Figure 56 – Alphabet page learning letter on Mobile

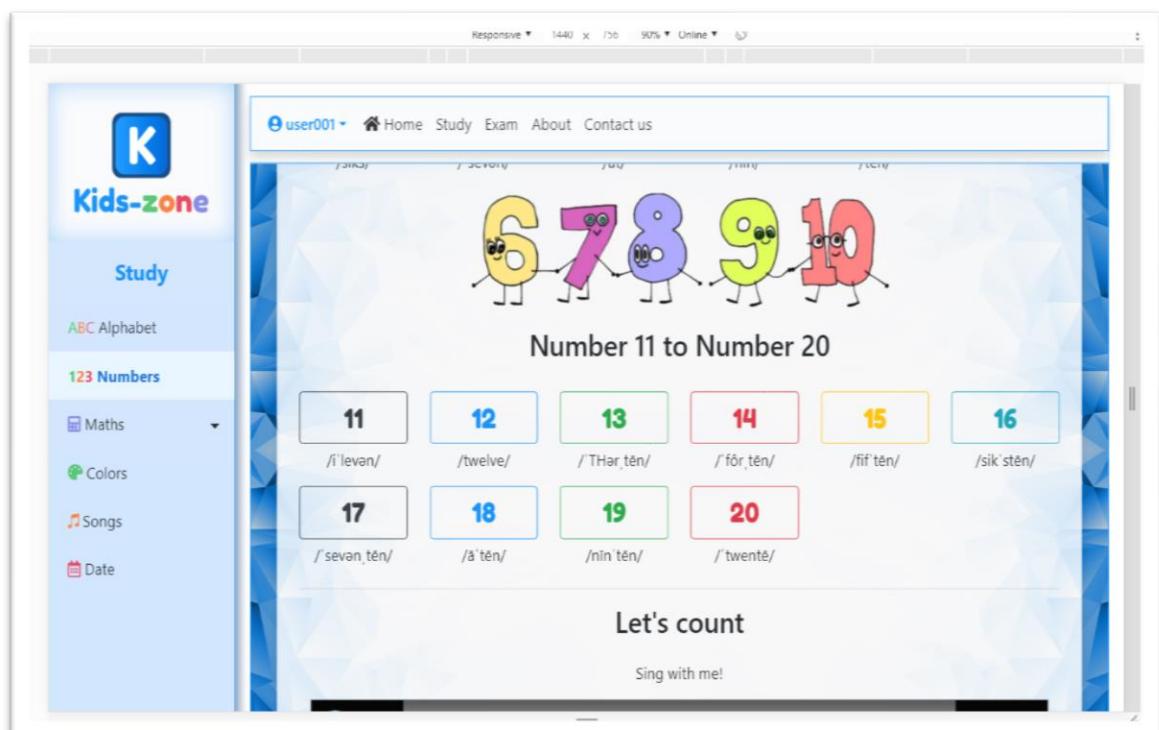


Numbers

Number 0 to Number 10

0 /zɪə(r)əʊ/	1 /wən/	2 /təʊ/	3 /thrə/	4 /fɔr/	5 /fɪv/
6 /siks/	7 /sevən/	8 /æt/	9 /nin/	10 /ten/	

Figure 57 – Number page on PC



Number 11 to Number 20

11 /i'levən/	12 /twel've/	13 /T̬hər'ten/	14 /fōr'ten/	15 /fif'ten/	16 /sik'stēn/
17 /sevən'ten/	18 /ə'ten/	19 /nin'ten/	20 /twentē/		

Let's count

Sing with me!

Figure 58 – Number page on PC

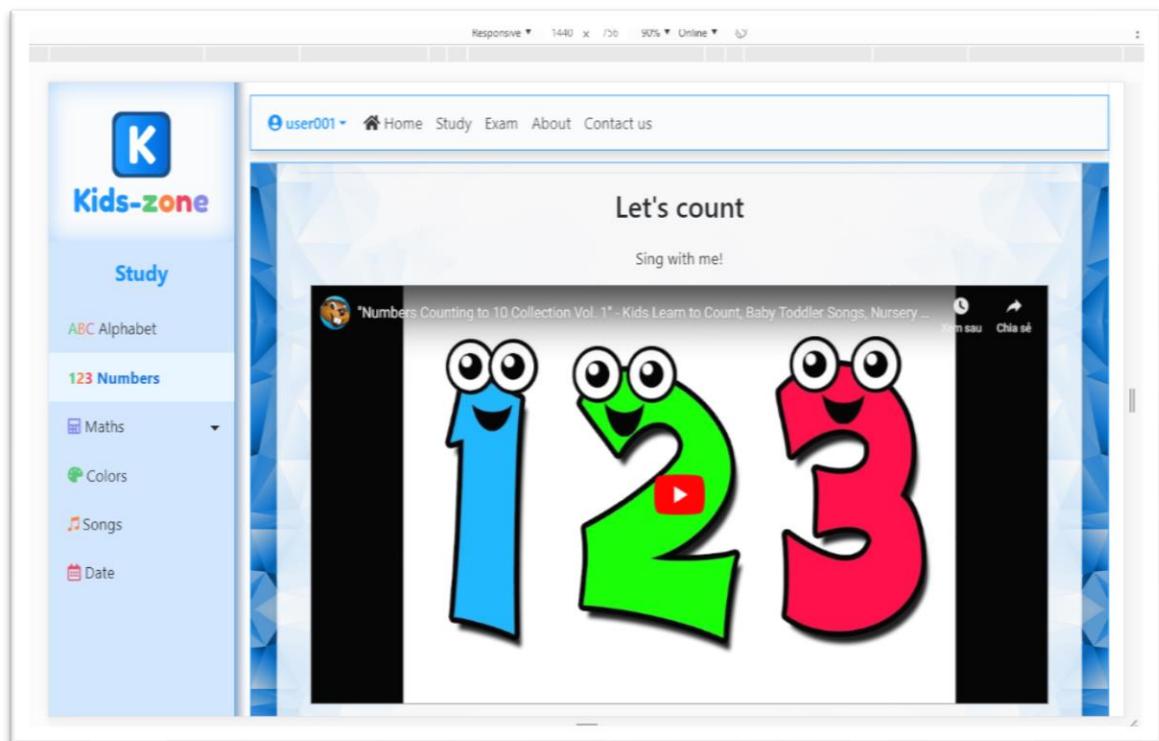


Figure 59 – Number page on PC

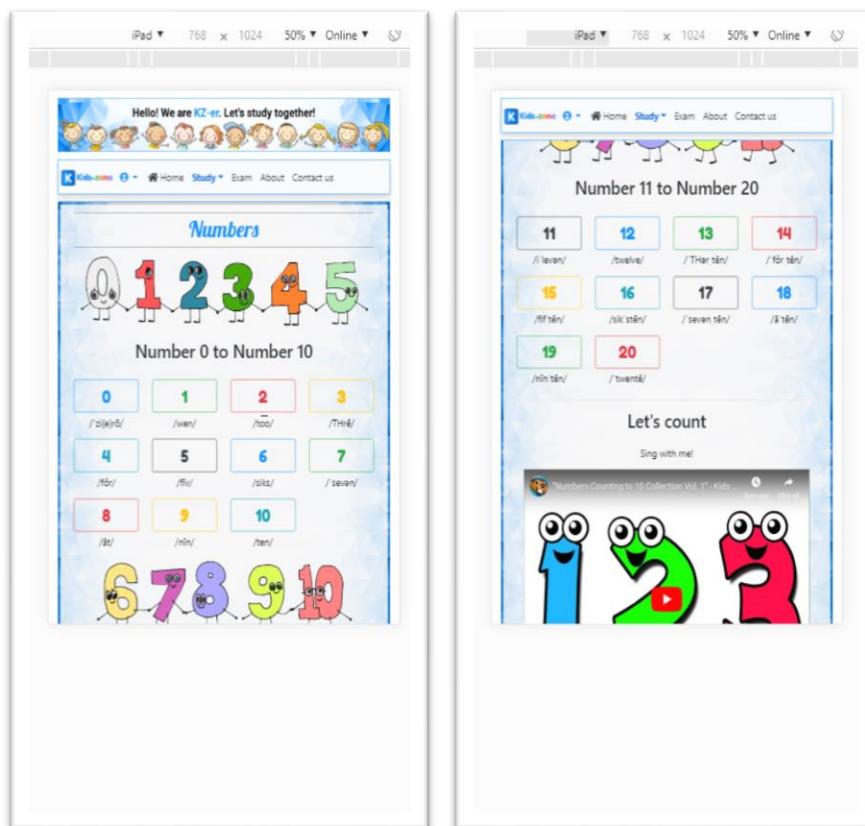


Figure 60 – Number page on Tablet

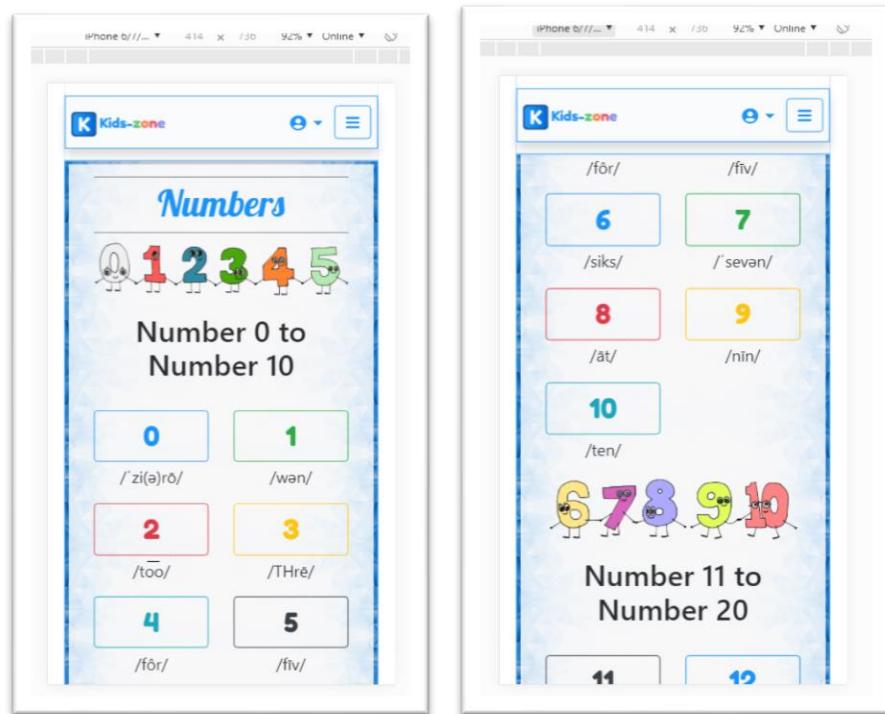


Figure 61 – Number page on Mobile

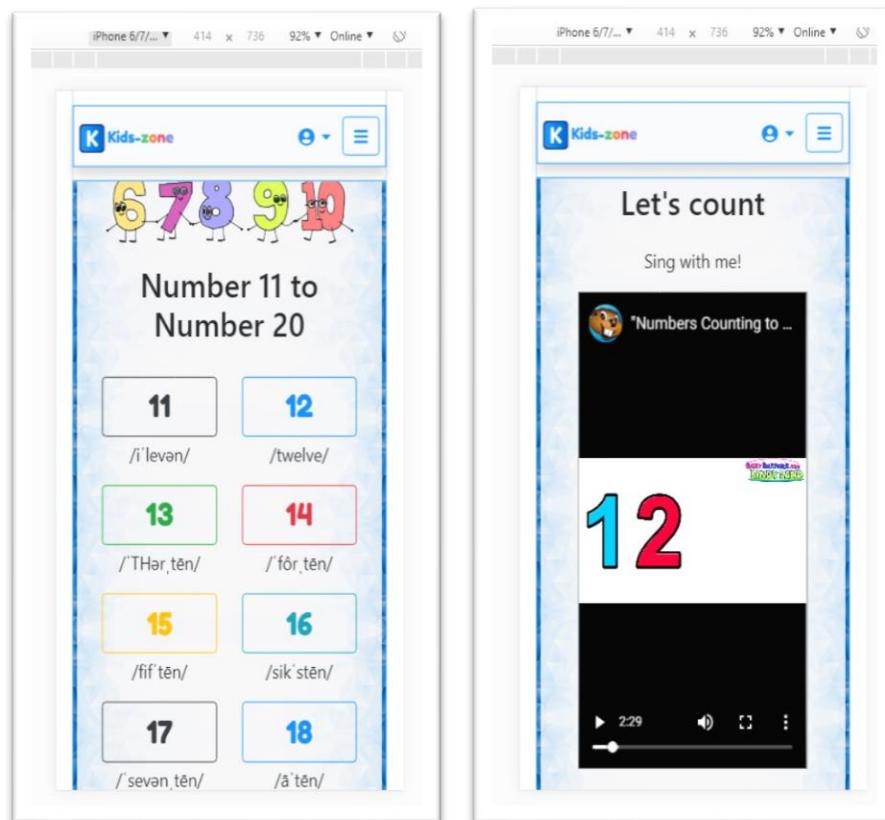
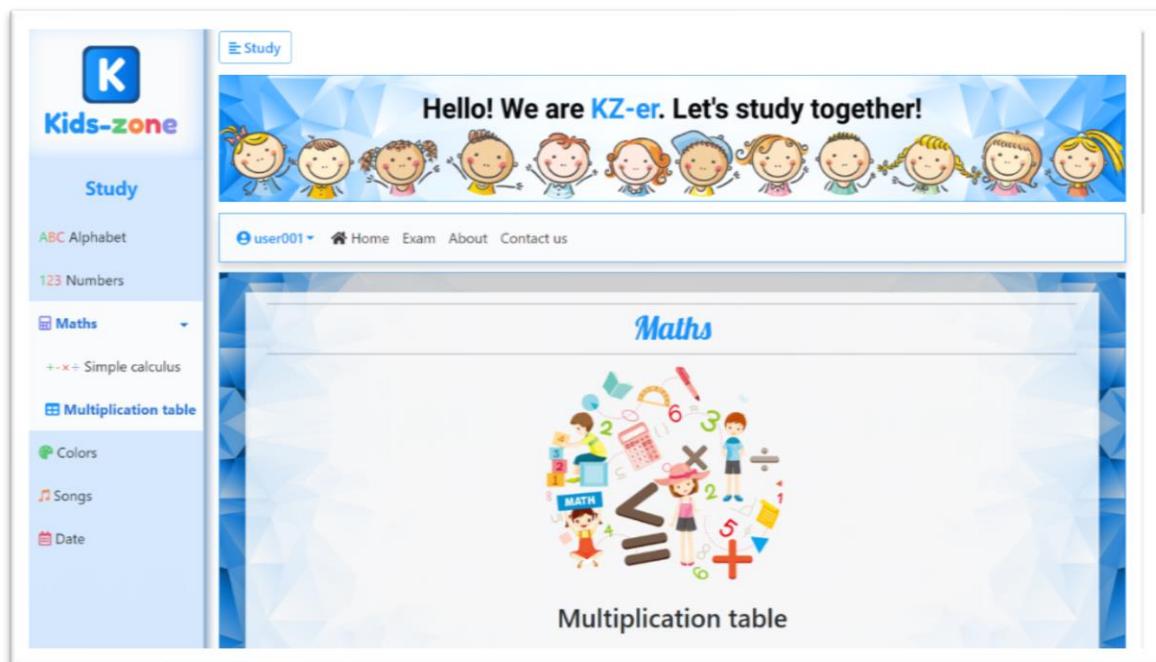
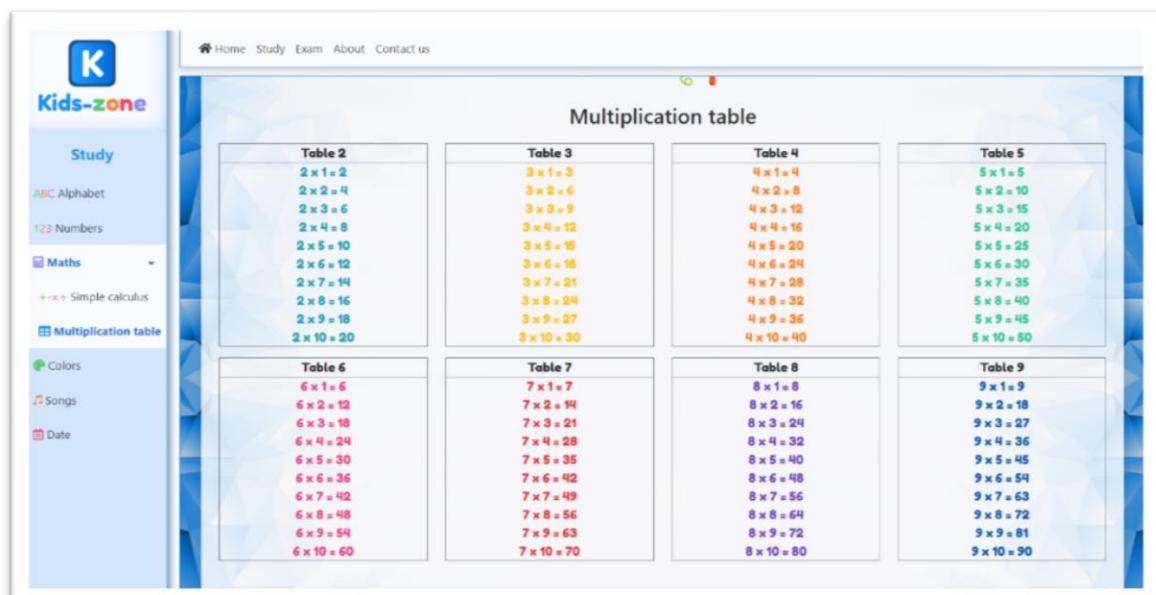


Figure 62 – Number page on Mobile



The screenshot shows a children's educational website. On the left, a sidebar titled "Study" contains links for ABC Alphabet, 123 Numbers, Maths (with sub-links for Simple calculus and Multiplication table), Colors, Songs, and Date. The main content area has a blue header with the text "Hello! We are KZ-er. Let's study together!" and a row of cartoon children. Below the header, a user menu shows "user001" and links for Home, Exam, About, and Contact us. The central part of the page features a large graphic of school-related items like a calculator, ruler, and books, with the word "Maths" written above it. Below the graphic, the text "Multiplication table" is displayed.

Figure 63 – Multiplication table page on PC



This screenshot shows a detailed multiplication table page. The left sidebar remains the same as in Figure 63. The main content area displays a grid of multiplication tables from 2x1 to 10x10. Each table is a 2x10 grid of multiplication facts. For example, Table 2 starts with 2x1=2 and ends with 2x10=20. The tables are color-coded by factor: 2, 3, 4, 5, 6, 7, 8, 9, and 10.

Figure 64 – Multiplication table page on PC

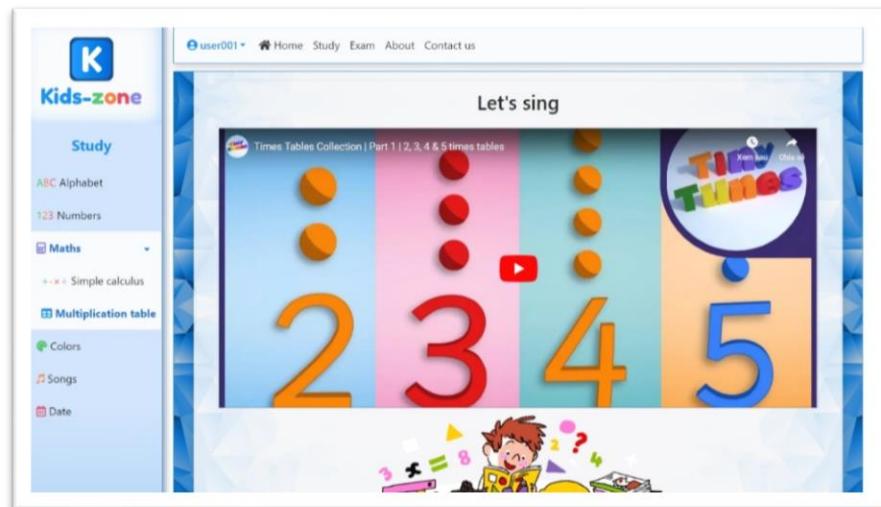


Figure 65 – Multiplication table page on PC

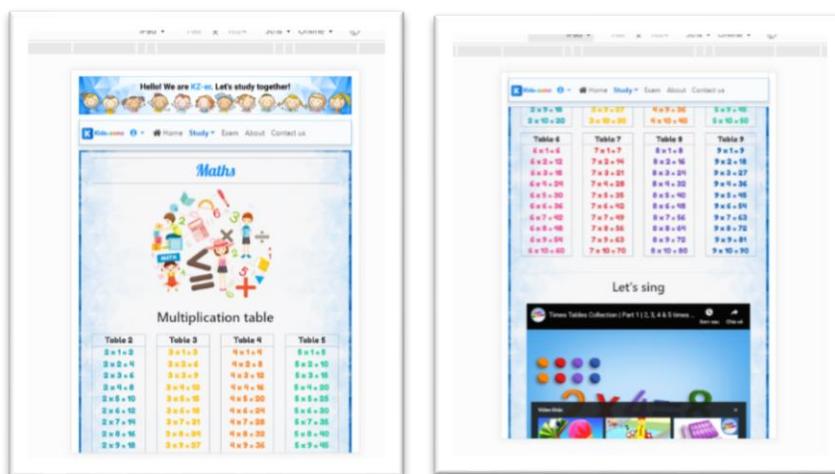


Figure 66 – Multiplication table page on Tablet

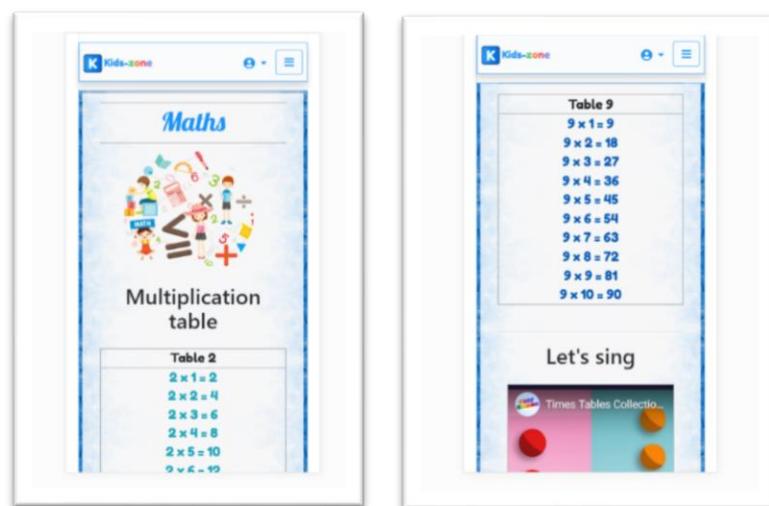


Figure 67 – Multiplication table page on Mobile



Figure 68 – Simple calculus page on PC

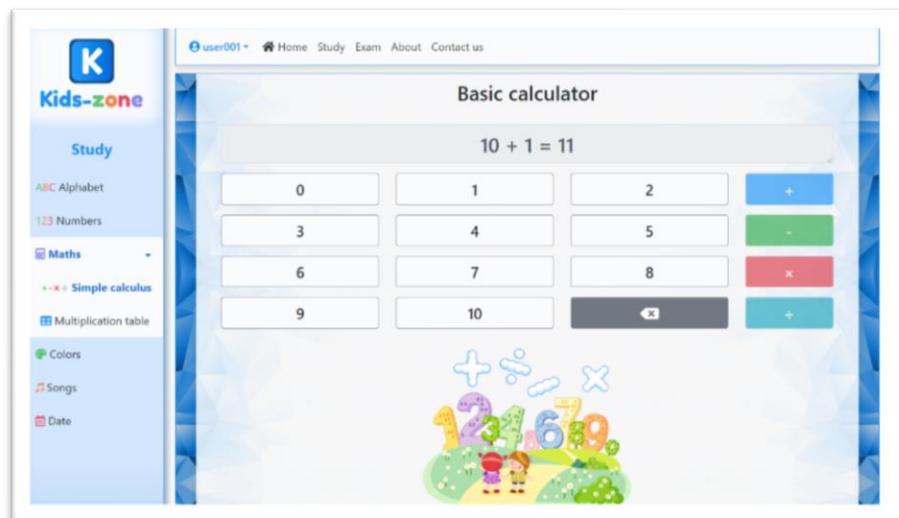


Figure 69 – Simple calculus page on PC

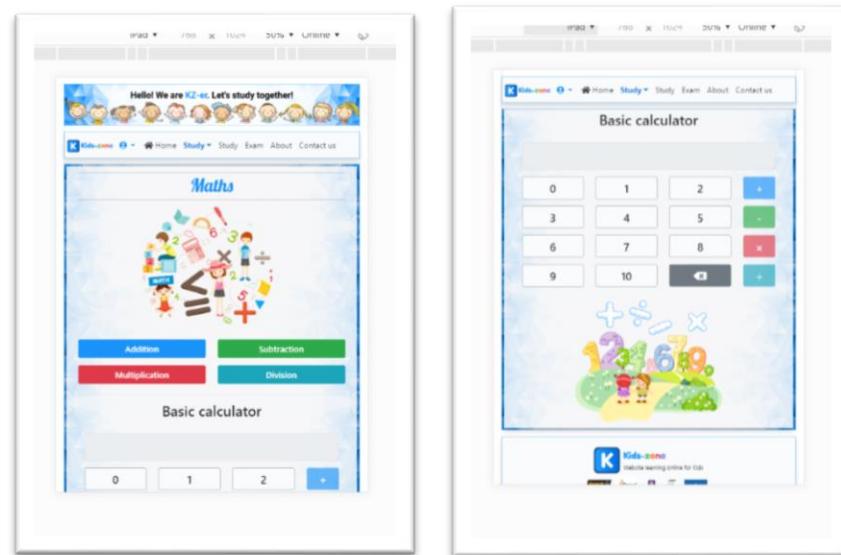


Figure 70 – Simple calculus page on Tablet

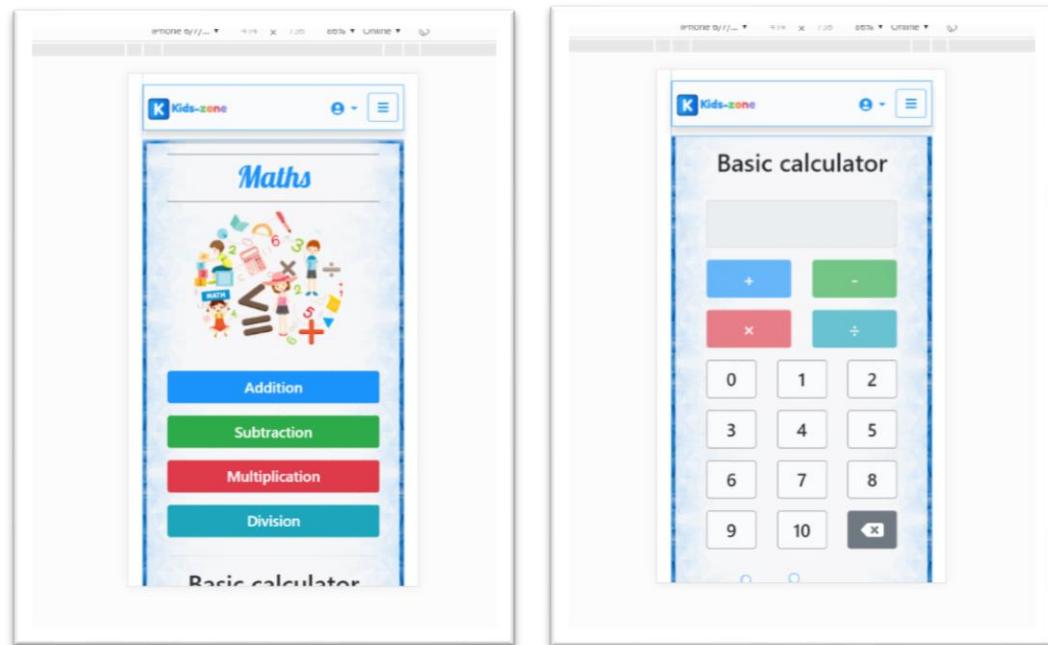


Figure 71 – Simple calculus page on Mobile

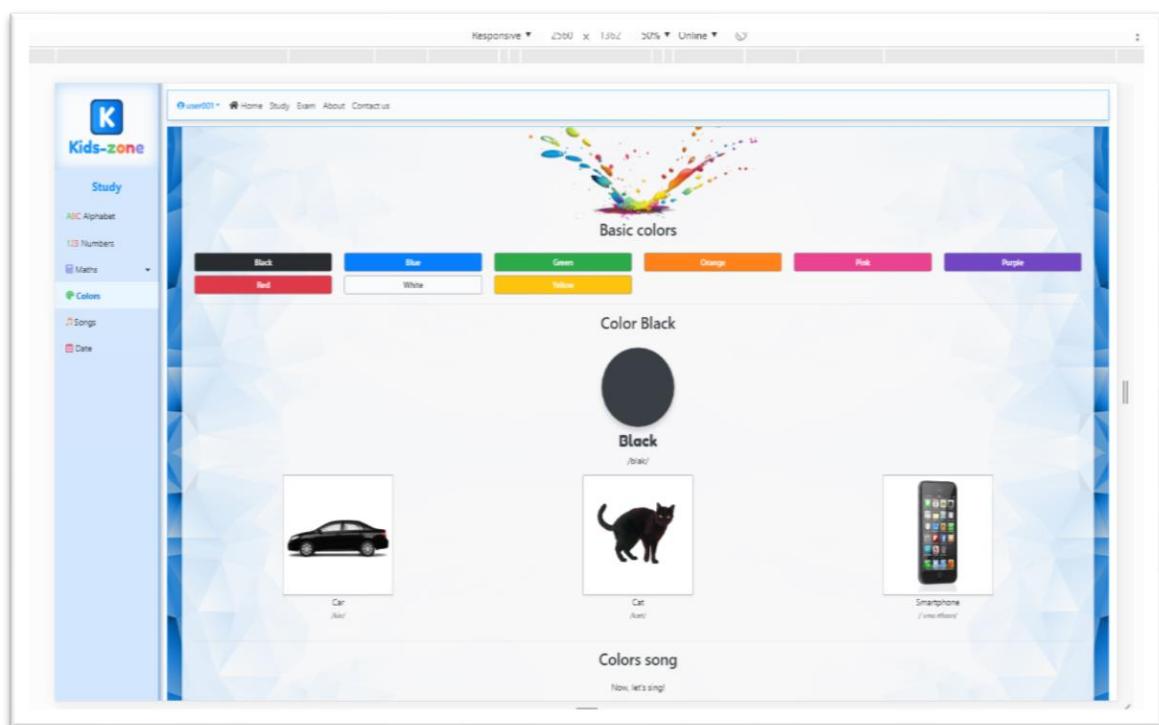


Figure 72 – Color page on PC

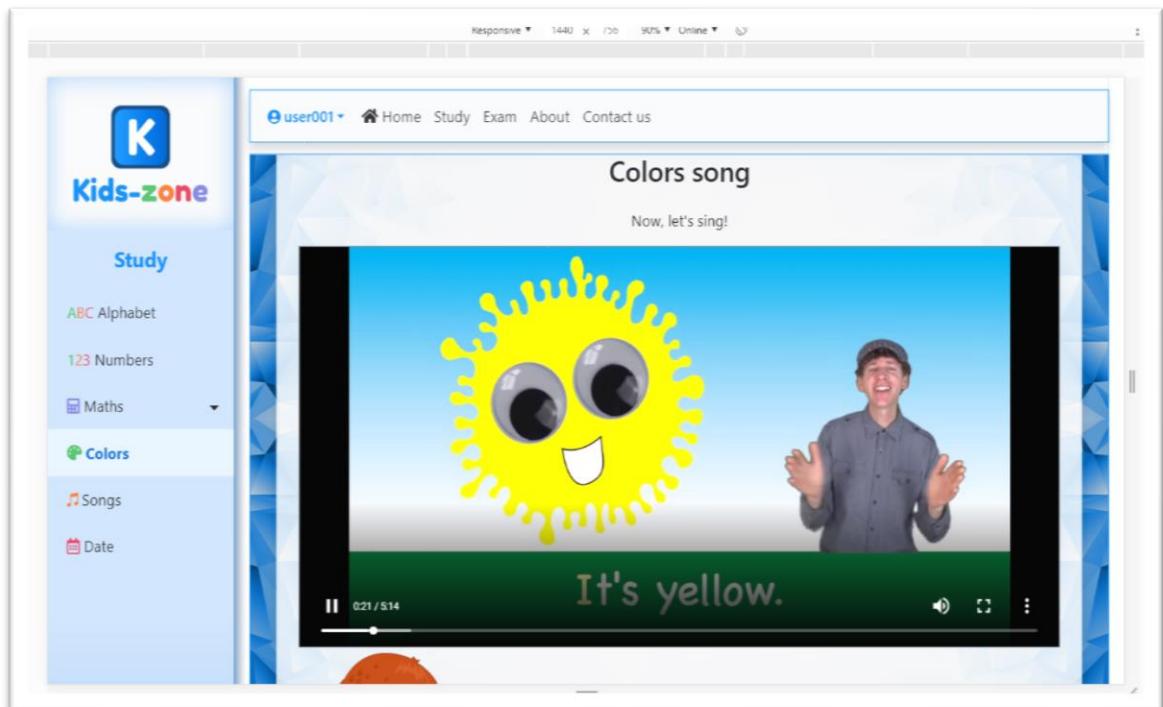


Figure 73 – Color page on PC

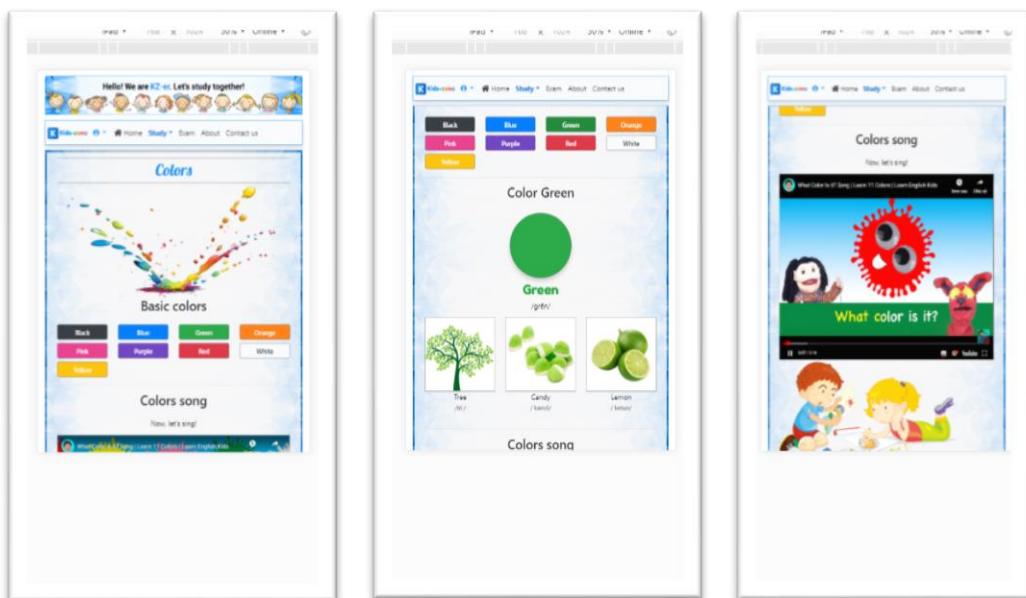


Figure 74 – Color page on Tablet

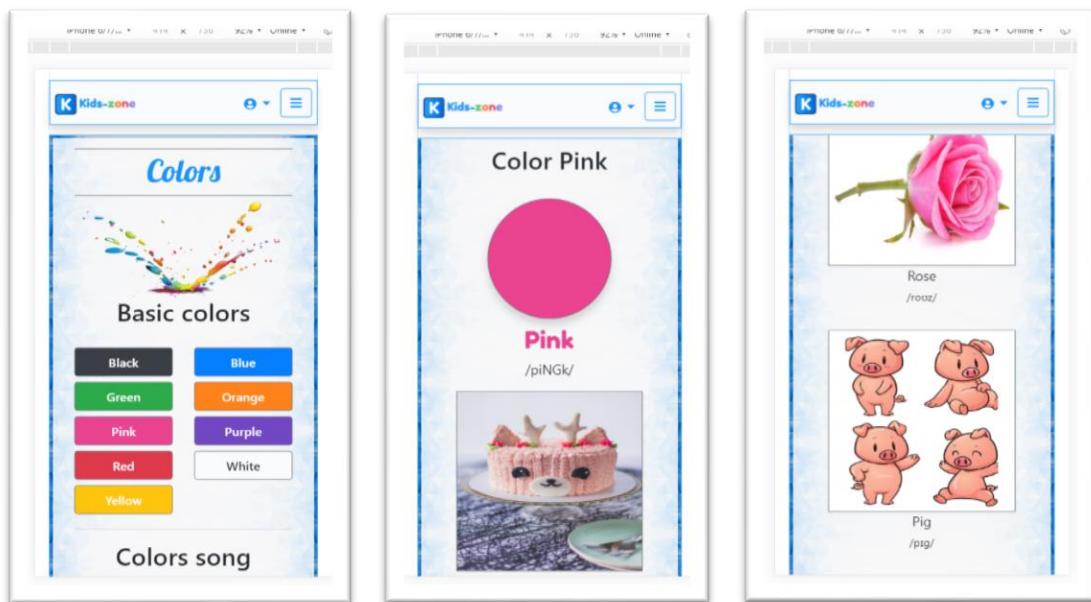


Figure 75 – Color page on Mobile

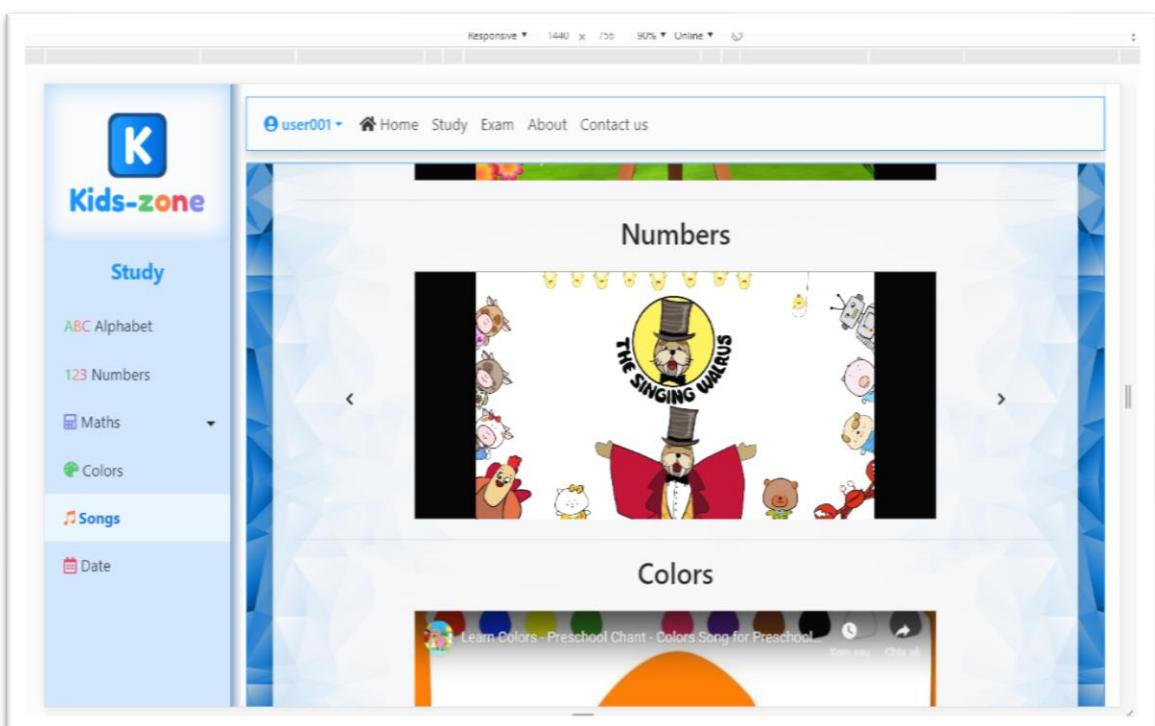


Figure 76 – Song page on PC

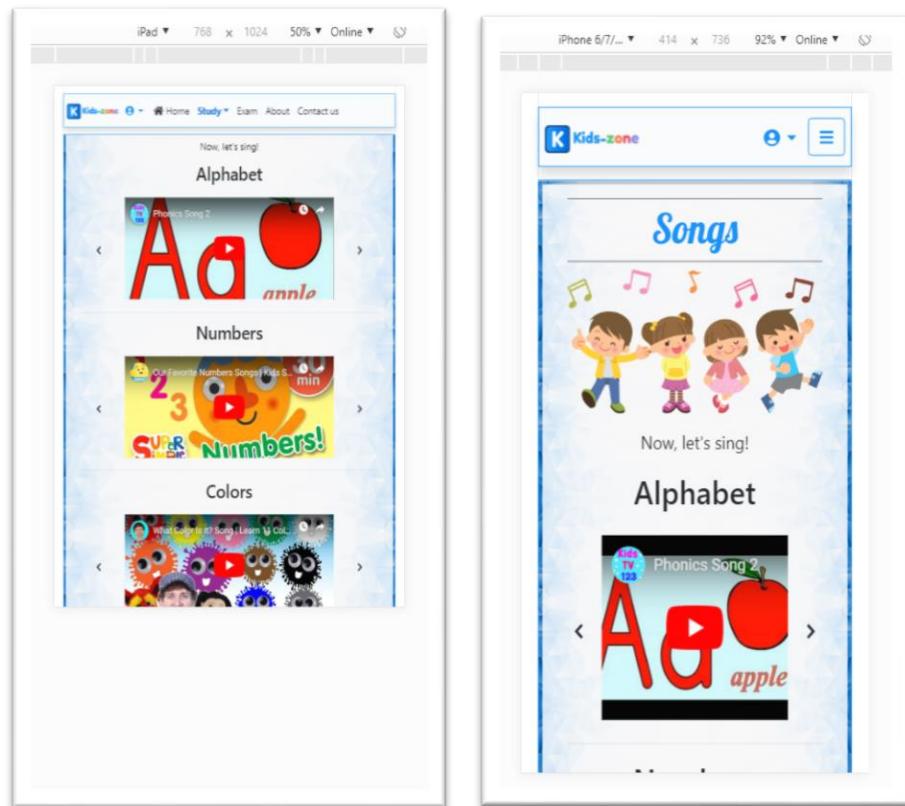


Figure 77 – Song page on Tablet and Mobile

Day	Phonetic Transcription
1. Monday	/mʌndei/
2. Tuesday	/tju:zdei/
3. Wednesday	/wedənzdei/
4. Thursday	/θɜ:zdei/
5. Friday	/fɪərdə/
6. Saturday	/sætədei/
7. Sunday	/sʌndeɪ/

Figure 78-Date page on PC

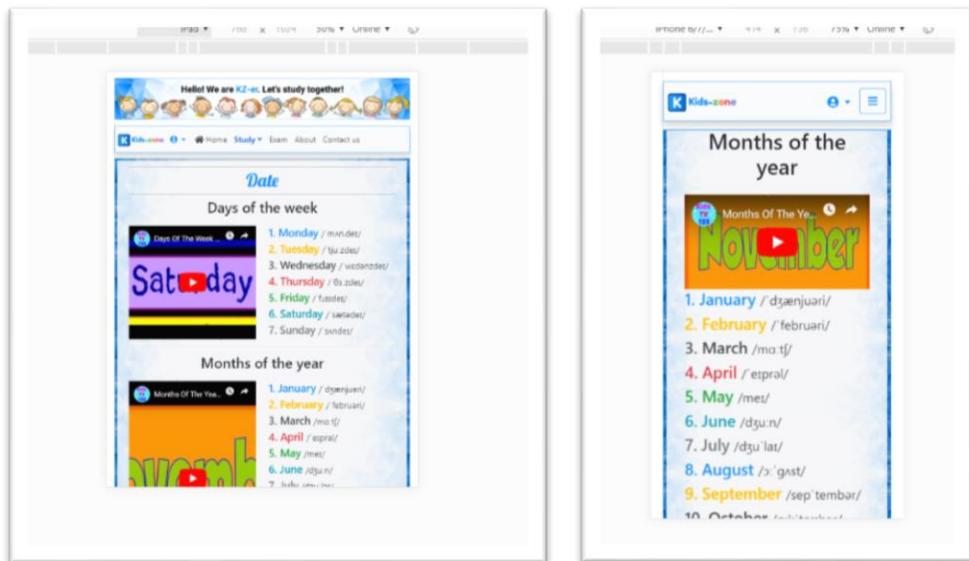


Figure 79 – Date page on Tablet and Mobile

2. JavaScript:

Checking is login, if login, the web shows User button and hide Login form

```
if (sessionStorage.isLoggedIn == null)
    sessionStorage.isLoggedIn = 0;

if (sessionStorage.isLoggedIn == 1)
{
    $("#user").html("<span style=\"text-decoration:none !important\"><i class=\"mr-1 fas fa-user-circle\"></i><div class=\"d-none d-xl-inline\">" + localStorage.KZ_username + "</div></span>");
    $(".btnUser").removeAttr("style");
}
else $("#frmLogin").removeAttr("style");
```

Script for Interface

```
// if scrollTop behind btnSidebarCollapse show btn Study on Navbar
if ($(this).innerWidth() >= 992)
    if ($(this).scrollTop() > parseInt($(".button.btnSidebarCollapse").offset().top) +
        parseInt($(".button.btnSidebarCollapse").height()))
        $(".layout-btnSidebarCollapse").removeClass("d-none");
    else
        $(".layout-btnSidebarCollapse").addClass("d-none");

// Script Btn Sidebar Collapse
$(".btnSidebarCollapse").click(function ()
{
    if ($("#sidebar").hasClass("closed"))
    {
        $("#sidebar").removeClass("closed").animate({ "margin-left": "0px" });
        $(".brand img").css("height", "0").css("margin-right", "0");
    }
    else
    {
        $("#sidebar").animate({ "margin-left": "-250px" }, function () { $("#sidebar").addClass("closed") });

        $(".brand img").css("height", "30").css("margin-right", "1.25rem");
    }
});
```

```
// Check key press Enter at inputUsername and inputPassword
function pressEnter(event)
{
    if (event.keyCode === 13)
    {
        event.preventDefault();
        $("#btnLogin").click();
    }
};

$("#inputUsername").keyup(function (event) { pressEnter(event) });
$("#inputPassword").keyup(function (event) { pressEnter(event) });

// when scroll, if scrollTop behind btnSidebarCollapse show btn Study on Navbar
$(window).scroll(function ()
{
    if ($(this).innerWidth() >= "992")
        if ($(this).scrollTop() > parseInt($("#button.btnSidebarCollapse").offset().top) +
        parseInt($("#button.btnSidebarCollapse").height()))
            $(".layout-btnSidebarCollapse").removeClass("d-none");
        else
            $(".layout-btnSidebarCollapse").addClass("d-none");
});
});
```

Script for checking Login and Logout

```
$("#btnLogin").click(function ()
{
    if ($("#inputUsername").val() == "" || $("#inputPassword").val() == "")
    {
        sessionStorage.alert = "Please enter username and password.";
        document.location.href = "./login.html";
    }
    else if ($("#inputUsername").val() == localStorage.KZ_username && $("#inputPassword").val() ==
    localStorage.KZ_password)
    {
        sessionStorage.isLoggedIn = 1;
        // if login successful, come back the last page (the page call script forward to the login page)
        if (sessionStorage.lastPage != "" && sessionStorage.lastPage != null)
```

```
{  
    var page = sessionStorage.lastPage;  
    sessionStorage.lastPage = "";  
    document.location.href = page;  
}  
  
else  
{  
    var href = document.location.href;  
    var page = href.substr(href.lastIndexOf("/") + 1);  
    // if current page is login or register, forward to home page  
    if (page === "login.html" || page === "register.html")  
        document.location.href = "./home.html";  
    else location.reload();  
}  
}  
  
else  
{  
    // if login unsuccessful at any page, forward to login page  
    sessionStorage.alert = "Username or password is incorrect.";  
    document.location.href = "./login.html";  
}  
});  
  
// logout  
$("#btnLogout").click(function ()  
{  
    document.location.href = "./login.html";  
});
```

Script for Registering:

```
//register the new account
//because of not using database at server, so we decided use Local Storage to storage the information of
user
//storage only ONE account for example use Local Storage for login

function resetInput(id)
{
    $("#" + id + "-invalid").remove();
    $("#" + id).removeClass("is-invalid").removeClass("is-valid");
}

function invalidInput(id, message)
{
    $("#" + id + "-invalid").remove();
    $("<div id=\"" + id + "-invalid\" class=\"invalid-feedback>" + message + "</div>").insertAfter("#" +
id);
    $("#" + id).addClass("is-invalid").removeClass("is-valid");
}

function validInput(id)
{
    $("#" + id + "-invalid").remove();
    $("#" + id).addClass("is-valid").removeClass("is-invalid");
}

// Check Value input is Valid?
function isValid(id)
{
    if (id == "username")
    {
        var reg_username = /^[a-z0-9_\.]{4,30}$/;
        var username = $("#username").val();

        if (username == "")
            invalidInput(id, "Please enter username.");
        else if (!reg_username.test(username))
            invalidInput(id, "Username is only alphabet lowercase, numeric, underscore and dot (from 4 to 30
characters).");
        else validInput(id);
    }
    else if (id == "password")
    {
```

```

var reg_password = /^[^.]{4,30}$/;
var password = $("#password").val(),
    repassword = $("#repassword").val();

if (password == "")
    invalidInput(id, "Please enter password.");
else if (!reg_password.test(password))
    invalidInput(id, "Password is only from 4 to 30 characters.");
else validInput(id);

$("#repassword").val("");
resetInput("repassword");
}

else if (id == "repassword")
{
    var password = $("#password").val(),
        repassword = $("#repassword").val();

    if (repassword == "") invalidInput(id, "Please retype password.");
    else if (repassword != password)
        invalidInput(id, "Password does not match.");
    else validInput(id);
}

else if (id == "name")
{
    var reg_name = /^[a-zA-Z ]{1,30}$/;
    var name = $("#name").val();

    if (name == "")
        invalidInput(id, "Please enter your name.");
    else if (!reg_name.test(name))
        invalidInput(id, "Name is only alphabet and space (maximum 30 characters.");
    else validInput(id);
}

else if (id == "birthday")
{
    var birthday = $("#birthday").val();

    if (birthday == "")
        invalidInput(id, "Invalid date.");
}

```

```

        else validInput(id);
    }
    else if (id == "email")
    {
        var reg_email = /^[A-Za-z0-9]([_\.\\-]?[a-zA-Z0-9]+)*@[A-Za-z0-9]+([_\.\\-]?[a-zA-Z0-9]+)*\.(A-
Za-z]{2,})$/;
        var email = $("#email").val();

        if (email == "")
            invalidInput(id, "Please enter your email address.");
        else if (!reg_email.test(email))
            invalidInput(id, "Invalid email address.");
        else validInput(id);
    }
    else if (id == "phone")
    {
        var reg_phone = /\+\d{10,}/$;
        var phone = $("#phone").val();

        if (phone == "") resetInput(id);
        else if (!reg_phone.test(phone) && phone != "")
            invalidInput(id, "Invalid numberphone.");
        else validInput(id);
    }
    else if (id == "address")
    {
        var address = $("#address").val();

        if (address == "") resetInput(id);
        else validInput(id);
    }
}

$(".form-control").focus(function ()
{
    isValid($(this).attr("id"));
});

$(".form-control").keyup(function ()
{
    isValid($(this).attr("id"));
});

```

```

});

$(".form-check-input").focus(function ()
{
    resetInput("gender");
});

$("#btnFormRegister").click(function ()
{
    var username = $("#username").val(),
        password = $("#password").val(),
        repassword = $("#repassword").val(),
        name = $("#name").val(),
        gender = $(".form-check-input:checked").val(),
        birthday = $("#birthday").val(),
        email = $("#email").val(),
        phone = $("#phone").val(),
        address = $("#address").val();

    if (username == "") invalidInput("username", "Please enter username.");
    else if (password == "") invalidInput("password", "Please enter password.");
    else if (repassword == "") invalidInput("repassword", "Please retype password.");
    else if (name == "") invalidInput("name", "Please enter your name.");
    else if (gender == null)
    {
        $("#gender-invalid").remove();
        $("<div id=\"gender-invalid\" class=\"invalid-feedback\" style=\"display:block !important\">Please verify your gender.</div>").insertAfter("#gender");
    }
    else if (birthday == "") invalidInput("birthday", "Invalid date.");
    else if (email == "") invalidInput(id, "Please enter email address.");

    if ($.invalid-feedback.length > 0)

        $("html, body").animate({ scrollTop: $(".invalid-feedback").parent().offset().top - parseInt($(".navbar").height()) - 60 }, 600);
    else
    {
        localStorage.KZ_username = username;
        localStorage.KZ_password = password;
        localStorage.KZ_name = reString(name);
        localStorage.KZ_gender = gender;
    }
});

```

```

localStorage.KZ_birthday = birthday;
localStorage.KZ_email = email;
localStorage.KZ_phone = phone;
localStorage.KZ_address = address;

sessionStorage.isLoggedIn = 1;
document.location.href = "./user.html";
}
});

```

Design objects Alphabet, input data into it

```

// object Alphabet
function Letter()
{
    this.name;
    this.url;
    this.spelling;
}

// create the alphabet 2 dimensional array alphabet[26][5] 26 Letters, each Letter has 5 images with its
name
var alphabet = new Array();
for (var i = 0; i < 26; i++)
{
    alphabet[i] = new Array();
    for (var j = 0; j < 5; j++)
        alphabet[i][j] = new Letter();
}

// input Letter(name, url, spelling) in the alphabet
function input(letter, position, name, spelling)
{
    alphabet[index(letter)][position - 1].name = name;
    alphabet[index(letter)][position - 1].url = "./image/alphabet/" + letter + position + ".png";
    alphabet[index(letter)][position - 1].spelling = spelling;
}

var spelling = ["er", "bi:", "si:", "di:", "i:", "ef", "dʒi:", "eɪf", "ar", "dʒer", "keɪ", "el", "əm", "ən", "ou",
"pi:", "kju:", "ar", "əs", "ti:", "ju:", "vi:", "'dʌbelju:", "əks", "war", "zi:"];

```

```
/* Input character a */

input("a", 1, "Allien", "'aɪlɪən");
input("a", 2, "Arm", "ɑ:rm");
input("a", 3, "Apple", "'æpl");
input("a", 4, "Ant", "ænt");
input("a", 5, "Airplane", "'erpleɪn");
```

Load data Alphabet into the web

```
$(".btn-letter").click(function ()
{
    var letter = $(this).text().charAt(0);

    $("#layout-study-alphabet").fadeOut(function ()
    {
        $("#nameLetter").text("Letter " + letter);
        $("#upperLetter").text(letter);
        $("#lowerLetter").text(letter.toLowerCase());
        $("#spelling").text("/") + spelling[index(letter)] + "/");

        for (var i = 0; i < 5; i++)
        {
            $("#img" + (i + 1)).attr("src", alphabet[index(letter)][i].url);
            $("#name" + (i + 1)).text(alphabet[index(letter)][i].name);
            $("#spelling" + (i + 1)).text("/") + alphabet[index(letter)][i].spelling + "/");
        }

        $("#layout-study-alphabet").fadeIn(function ()
        {
```

```
        $("html, body").animate({ scrollTop: $("#layout-study-alphabet").offset().top -
parseInt($(".navbar").height()) - 60 }, 600);
    });
});
});
```

Object Exam, input data, load data Exam into the web

```
// object Exam, Ques
function Exam()
{
```

```

this.name;
this.date;
this.quesAlphabet;
this.quesNumber;
this.quesColor;
this.quesMaths;
}

function Ques(ques, ans, url, result)
{
    this.ques = ques;
    this.ans = ans;
    this.url = url;
    this.result = result;
}

var exam1 = new Exam();
exam1.name = "Exam 1";
exam1.date = "19-2-2019";
exam1.quesAlphabet = new Ques("I have an ...pple", "a", "../image/exam/ques1_1.png", "I have an
<b>a</b>pple");
exam1.quesNumber = new Ques("How many frogs are there? - There are ... frogs", "3",
"../image/exam/ques1_2.png", "There are <b>3</b> frogs");
exam1.quesColor = new Ques("The sun is ...", "yellow", "../image/exam/ques1_3.png", "The sun is
<b>yellow</b>");
exam1.quesMaths = new Ques("1 + 2 = ...", "3", "", "1 + 2 = <b>3</b>");

var exam2 = new Exam();
exam2.name = "Exam 2";

```

```

exam2.date = "19-3-2019";
exam2.quesAlphabet = new Ques("I love ...og", "d", "../image/exam/ques2_1.png", "I love
<b>d</b>og");
exam2.quesNumber = new Ques("How many fishes are there? - There are ... fishes", "5",
"../image/exam/ques2_2.png", "There are <b>5</b> fishes");
exam2.quesColor = new Ques("The sea is ...", "blue", "../image/exam/ques2_3.png", "The sea is
<b>blue</b>");
exam2.quesMaths = new Ques("2 × 2 = ...", "4", "", "2 × 2 = <b>4</b>");

var exam = [exam1, exam2];
//-----

```

```

for (var i = exam.length - 1; i >= 0; i--)
{
    if (localStorage.getItem("KZ_exam" + (i + 1)) != null)
        $("<li><a id=\"" + i + "\" class=\"link-exam text-dark\" href="#" + exam[i].name + " - " +
exam[i].date + "</a></li>").prependTo("#list-exam");
    else
        $("<li><a id=\"" + i + "\" class=\"link-exam text-dark\" href="#" + exam[i].name + " - " +
exam[i].date + "</a></li>").prependTo("#list-exam");

    $("<tr><th scope=\"row\">" + (i + 1) + "</th><td>" + exam[i].name + "</td><td>" +
localStorage.getItem("KZ_examdate" + (i + 1)) + "</td><td>" + localStorage.getItem("KZ_exam" + (i +
1)) + "</td></tr>").prependTo("#bodyResult");
}

var index = 0;
$(".link-exam").click(function ()
{
    index = parseInt($(this).attr("id"));
    $("#name-exam").html(exam[index].name + "<br><small>" + exam[index].date + "</small>");

    $("#ques1").text(exam[index].quesAlphabet.ques);
    $("#ques2").text(exam[index].quesNumber.ques);

    $("#ques3").text(exam[index].quesColor.ques);
    $("#ques4").text(exam[index].quesMaths.ques);

    $("#img1").attr("src", exam[index].quesAlphabet.url);
    $("#img2").attr("src", exam[index].quesNumber.url);
    $("#img3").attr("src", exam[index].quesColor.url);

    $("#table").fadeOut();
    $("#layout-list-exam").fadeOut(function ()
    {
        $("#test").fadeIn();
    });
});

```

Check result when user click Submit button

```

$("#submit").click(function ()
{

```

```

var result = 0;

if ($("#ans1").val().toLowerCase() == exam[index].quesAlphabet.ans)
{
    $("#ans1").addClass("is-valid");
    result++;
}
else
{
    $("#ans1").addClass("is-invalid");
    $("<div class=\"invalid-feedback>Result: " + exam[index].quesAlphabet.result +
"</div>").insertAfter("#ans1");
}

if ($("#ans2").val().toLowerCase() == exam[index].quesNumber.ans)
{
    $("#ans2").addClass("is-valid");
    result++;
}
else
{
    $("#ans2").addClass("is-invalid");
    $("<div class=\"invalid-feedback>Result: " + exam[index].quesNumber.result +
"</div>").insertAfter("#ans2");
}

}

if ($("#ans3").val().toLowerCase() == exam[index].quesColor.ans)
{
    $("#ans3").addClass("is-valid");
    result++;
}
else
{
    $("#ans3").addClass("is-invalid");
    $("<div class=\"invalid-feedback>Result: " + exam[index].quesColor.result +
"</div>").insertAfter("#ans3");
}

}

if ($("#ans4").val().toLowerCase() == exam[index].quesMaths.ans)
{
    $("#ans4").addClass("is-valid");
    result++;
}

```

```

        }
        else
        {
            $("#ans4").addClass("is-invalid");
            $("<div class=\"invalid-feedback>Result: " + exam[index].quesMaths.result +
            "</div>").insertAfter("#ans4");
        }

        localStorage.setItem("KZ_exam" + (index + 1), result * 25);

        var d = new Date();
        localStorage.setItem("KZ_examdate" + (index + 1), d.getDate() + "-" + (d.getMonth() + 1) + "-" +
        d.getFullYear());
        $("input").attr("readonly", "readonly");
        $("html, body").animate({ scrollTop: $("#test").offset().top - parseInt($(".navbar").height()) - 60 }, 600);

        $("#submit").fadeOut();
        $("#ok").fadeIn();
    });

    $("#ok").click(function ()
    {
        location.reload();
    });
}

```

Script forwarding to login page if needing login

```
// script for pages need login account, If there are not any accounts logged in, then it will forward to the
login page
if (sessionStorage.isLoggedIn != 1)
{
    sessionStorage.lastPage = window.location.href;
    window.location.href = "./login.html";
}
```

Script Object Color, input Data, load Data

```
// return the index of color
function index(colorName)
{
    if (colorName.toLowerCase() == "black")
        return 0;
```

```

else if (colorName.toLowerCase() == "blue")
    return 1;
else if (colorName.toLowerCase() == "green")
    return 2;
else if (colorName.toLowerCase() == "orange")
    return 3;
else if (colorName.toLowerCase() == "pink")
    return 4;
else if (colorName.toLowerCase() == "purple")
    return 5;
else if (colorName.toLowerCase() == "red")
    return 6;
else if (colorName.toLowerCase() == "white")
    return 7;
else if (colorName.toLowerCase() == "yellow")
    return 8;
}

// return the hex of color
function hex(colorName)
{

```

```

if (colorName.toLowerCase() == "black" || colorName.toLowerCase() == "white")
    return "#343a40";
else if (colorName.toLowerCase() == "blue")
    return "#007bff";
else if (colorName.toLowerCase() == "green")
    return "#28a745";
else if (colorName.toLowerCase() == "orange")
    return "#fd7e14";
else if (colorName.toLowerCase() == "pink")
    return "#e83e8c";
else if (colorName.toLowerCase() == "purple")
    return "#6f42c1";
else if (colorName.toLowerCase() == "red")
    return "#dc3545";
else if (colorName.toLowerCase() == "yellow")
    return "#ffc107";
}

// object Color
function Color()

```

```
{
    this.name;
    this.url;
    this.spelling;
}

// create the Color 2 dimensional array Color[9][3] 9 Colors, each Color has 3 images with its name
var color = new Array();
for (var i = 0; i < 9; i++)
{
    color[i] = new Array();
    for (var j = 0; j < 3; j++)
        color[i][j] = new Color();
}

// input Color(name, url, spelling)
function input(colorName, position, name, spelling)
{
    color[index(colorName)][position - 1].name = name;

    color[index(colorName)][position - 1].url = "./image/color/" + colorName + position + ".png";
    color[index(colorName)][position - 1].spelling = spelling;
}

var spelling = ["blak", "bloō", "grēn", "'ôrənj", "piNGk", "'pərpəl", "red", "(h)wīt", "'yelō"];

/* Input black */
input("black", 1, "Car", "kär");
input("black", 2, "Cat", "kæt");
input("black", 3, "Smartphone", "'sma.rtfoon");

//-----

$(".btn-color").click(function ()
{
    var colorName = $(this).text();

    $("#layout-study-color").fadeOut(function ()
    {
        $("#nameColor").text("Color " + colorName);
        $("#fillColor").css("background-color", colorName == "White" ? "#f8f9fa" : hex(colorName));
        $("#color").text(colorName).css("color", hex(colorName));
    });
});
```

```
$("#spelling").text("/") + spelling[index(colorName)] + "/");

for (var i = 0; i < 3; i++)
{
    $("#img" + (i + 1)).attr("src", color[index(colorName)][i].url);
    $("#name" + (i + 1)).text(color[index(colorName)][i].name);
    $("#spelling" + (i + 1)).text("/") + color[index(colorName)][i].spelling + "/");
}

$("#layout-study-color").fadeIn(function ()
{
    $("html, body").animate({ scrollTop: $("#layout-study-color").offset().top -
    parseInt($(".navbar").height()) - 60 }, 600);
});
```

Task Sheet

Project Title: Kids-zone

Activity plan prepared by: Hai Tran Duong, Thuan Dao Minh Trung

Project Ref. No.:		Date of Preparation of Activity Plan			
Sr. No.	Task	Actual Start Date	Act. Days	Team Mate Names	Stt.
Requirement gathering and analysis					
1	Collect information of customer	19-2-2019	1	Hai Tran Duong Thuan Dao Minh Trung Thuan Lam Duy Thanh Nguyen Phuoc	Done
2	Problem definition	20-2-2019	1	Thanh Nguyen Phuoc	Done
3	Stomer requirement specification form	20-2-2019	1	Thuan Lam Duy	Done
4	Design architecture	20-2-2019	1	Thuan Dao Minh Trung	Done
5	Draw site map	20-2-2019	1	Hai Tran Duong	Done
Design Interface and Data Objects					
6	Design layout page, brand, logo, icon and banner Script for Interface	21-2-2019	2	Thuan Dao Minh Trung	Done
7	Search images, videos	21-2-2019	2	Hai Tran Duong Thuan Lam Duy Thanh Nguyen Phuoc	Done
8	Design data objects: Alphabet, Numbers, Exam, Question...	23-2-2019	1	Thuan Dao Minh Trung	Done
9	Input data into created objects	23-2-2019	1	Hai Tran Duong Thuan Lam Duy Thanh Nguyen Phuoc	Done

Implementation					
10	Design Register page Design User page	24-2-2019	3	Thuan Dao Minh Trung	Done
11	Design Home page Design Event: Happy ChildrenDay	24-2-2019	3	Thanh Nguyen Phuoc	Done
12	Design Login page Design Event page: Hello Summer	24-2-2019	3	Thuan Lam Duy	Done
13	Design About page Design Contact us page	24-2-2019	3	Hai Tran Duong	Done
14	Design Alphabet page	27-2-2019	2	Thuan Dao Minh Trung	Done
15	Design Songs page	27-2-2019	2	Hai Tran Duong	Done
16	Design Date page	27-2-2019	2	Thanh Nguyen Phuc	Done
17	Design Multiplication table page	27-2-2019	2	Thuan Lam Duy	Done
18	Design Color page	1-3-2019	2	Hai Tran Duong	Done
19	Desgin Numbers page	1-3-2019	2	Thanh Nguyen Phuc	Done
20	Design Simple calculus page	1-3-2019	2	Thuan Lam Duy	Done
21	Desgin Exam page	1-3-2019	2	Thuan Dao Minh Trung	Done
22	Add more images	3-3-2019	1	Thanh Nguyen Phuc	Done
23	Add more videos	3-3-2019	1	Thuan Lam Duy	Done
24	Feedback 1st to Project Manager	4-3-2019	1	Hai Tran Duong	Done
Integration and Testing					
25	Integrate code	5-3-2019	1	Thuan Dao Minh Trung	Done
26	Testing and fix bugs Testing by the other devices, some other browsers	6-3-2019	4	Hai Tran Duong Thuan Dao Minh Trung Thuan Lam Duy Thanh Nguyen Phuoc	Done

Project deployment					
27	Feedback 2nd to Project Manager	10-3-2019	1	Thuan Dao Minh Trung	Done
28	Write User Guide	11-3-2019	3	Thanh Nguyen Phuoc Thuan Lam Duy	Done
29	Write Installation Guide	11-3-2019	1	Hai Tran Duong	Done
30	Write Project Documentation	14-3-2019	4	Hai Tran Duong Thuan Dao Minh Trung Thuan Lam Duy Thanh Nguyen Phuoc	Done
31	Feedback 3nd to Project Manager	18-3-2019	1	Hai Tran Duong Thuan Dao Minh Trung	Done
32	Product delivery	19-2-2019	1	Hai Tran Duong	Done

Checklist of Validations

Option	Validated
Do all text links lead to the appropriate Web site?	Yes
Do all the image links lead to the appropriate Web site?	Yes
Is the Navigation made smooth throughout the website	Yes
Is the website uniformity?	Yes
Are all the images and links clearly visible on the page?	Yes
Do the “Contact us” page have address of the company?	Yes
Do the Email address links invoke the local mail client from where user can send an email?	Yes
Have the images been localized based on the contract signed with the client?	Yes
Is the Web page opening properly in all the tested Web browsers?	Yes
Is the Web page opening properly in all the tested devices?	Yes
Is the Web page taking too short time to load?	Yes
Is the navigation sequence correct through all the Web pages on the site?	Yes
Is the JavaScript code working as expected in all click events?	Yes
Do the Local storage and Session storage work correctly?	Yes
Do the Script events for registering, login, taking exam and loading videos from Youtube work correctly?	Yes

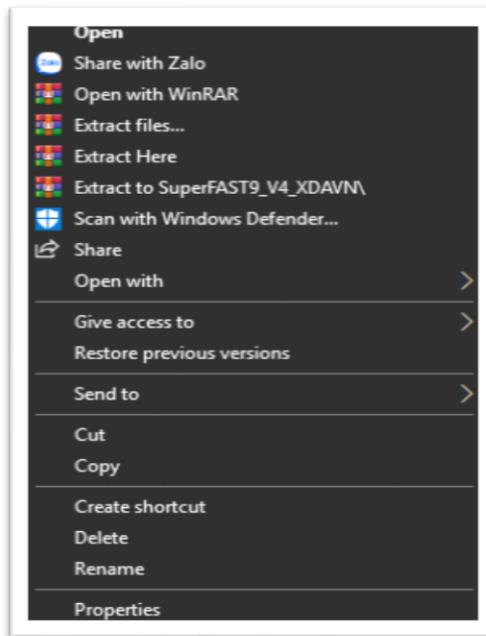
Submission Checklist

Sr. No.	Particulars	Yes	No	NA	Comments
1	Are all the users able to view the images and links?	Yes			
2	Have all the pages been properly integrated and are completely functional?	Yes			All the modules are properly tested.
3	Are the GUI contents devoid of spelling mistakes?	Yes			
4	Is the application user-friendly?	Yes			
5	Is the Website launching correctly in any browser?	Yes			<p>The LocalStorage and SessionStorage of Internet Explorer browser and Microsoft Edge browser can't work if launching local this Website.</p> <p>Beacaus these 2 browsers default can't use HTML Storage if website launches at local (<code>window.location.href = "file:///...."</code>).</p> <p>If launching website online by using server Domain and Hosting, it will work correctly.</p> <p>Should use Google Chrome, Opera, FireFox to test this website</p>
6	Is the Website launching correctly in any device?	Yes			

Installation Guide

1. Download to file **eProject_Group4_Kids-zone.zip** your computer.
2. Unzip file **eProject_Group4_Kids-zone.zip** by Winrar (link download Winrar: <https://www.rarlab.com>) or use any unzip software.

Click right mouse on file:



Then, click choose Extract files here to unzip.

3. File include:
 - a. **Application:** source code
 - b. **Graphic Design:** original design file images, logo, banner (adobe photoshop and illustrator file)
 - c. **Document:** Project documentation
 - d. **Feedback:** feedback of team
4. Then Open **eProject_Group4_Kids-zone\application\html\home.html** to launch web

User Guide

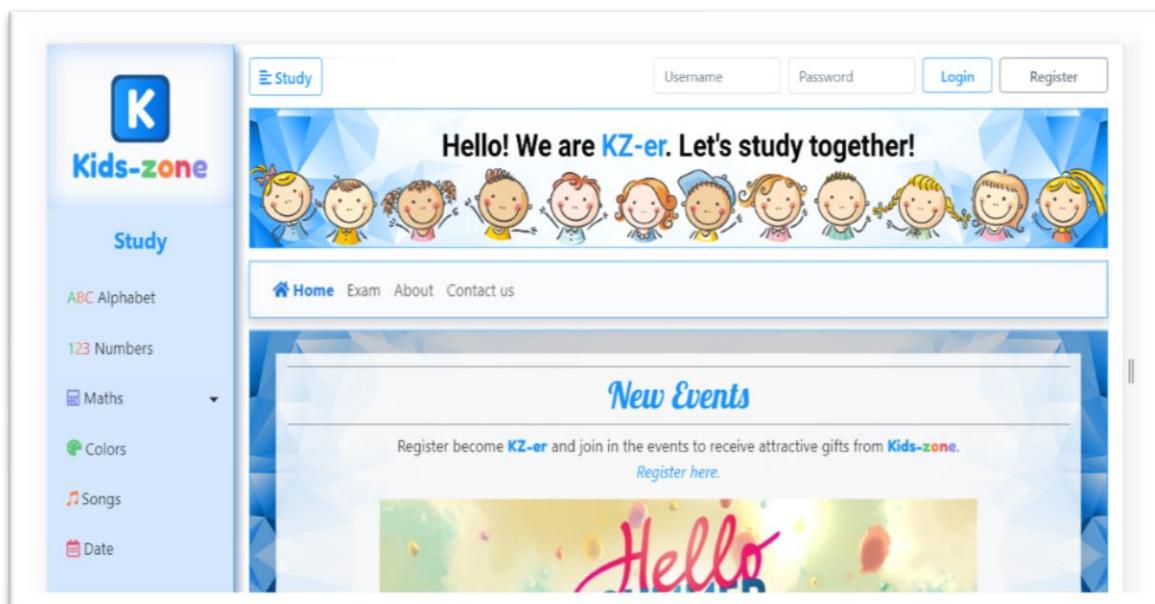
System Requirements:

Items	Description
Operating System	Windows 7 OS or higher
Software	Browser supports HTML5, CSS3, JavaScript Recommend Google Chrome, Opera

Run Application:

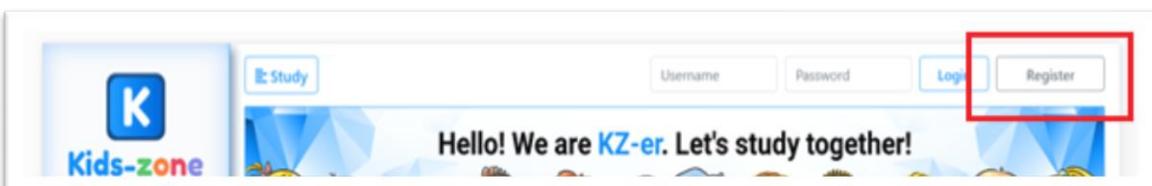
Open file eProject_Group4_Kids-zone\application\html\home.html to launch the web.

1. The interface when launch:

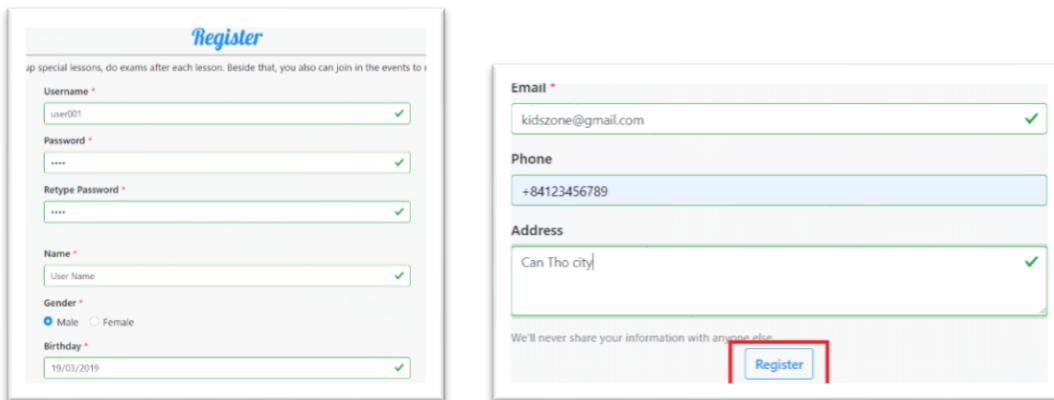


2. Register your account:

Click here to Register



Then fill your information and click Register button at the end of form



Register

User special lessons, do exams after each lesson. Beside that, you also can join in the events to...

Username * ✓

Password * ✓

Retype Password * ✓

Name * ✓

Gender * Male Female

Birthday * ✓

Email * ✓

Phone

Address ✓

We'll never share your information with anyone else.

Register

When you Register successfully, forward to **Personal Information page**



Personal Information

I am KZ-er, a member of Kids-zone family.

Name *

Gender * Male Female

Birthday *

Email *

Phone

Address

You can login at **Home page**, **Login page** or any where has form Login

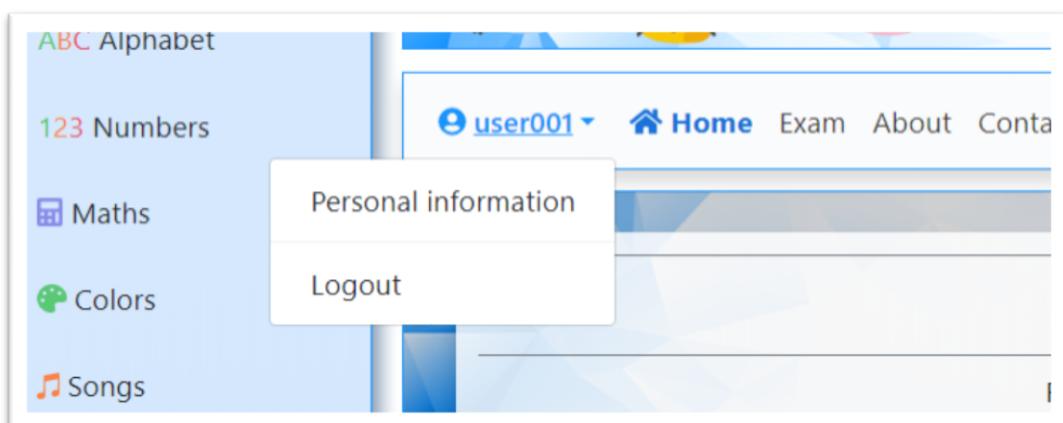


user001

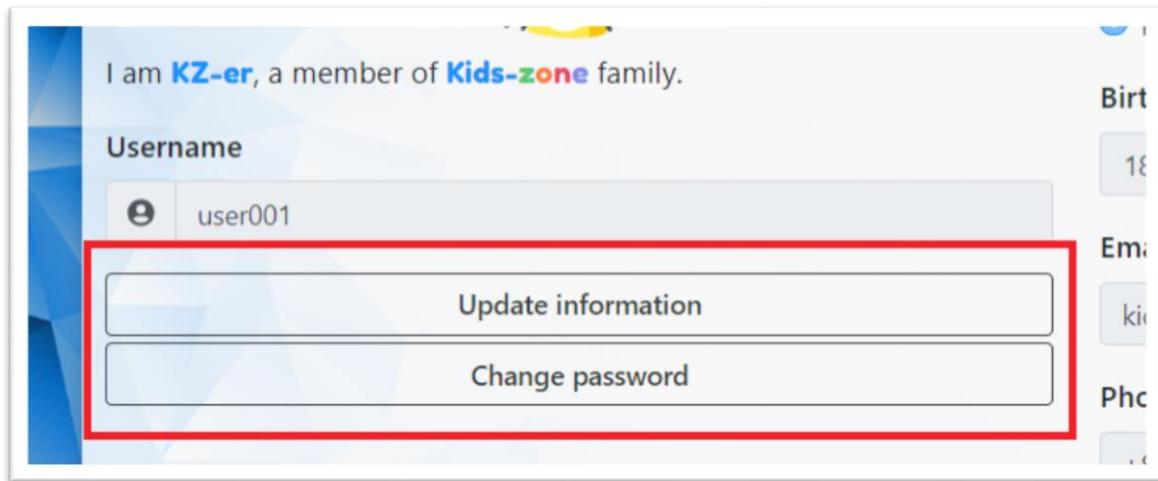
Login

Register

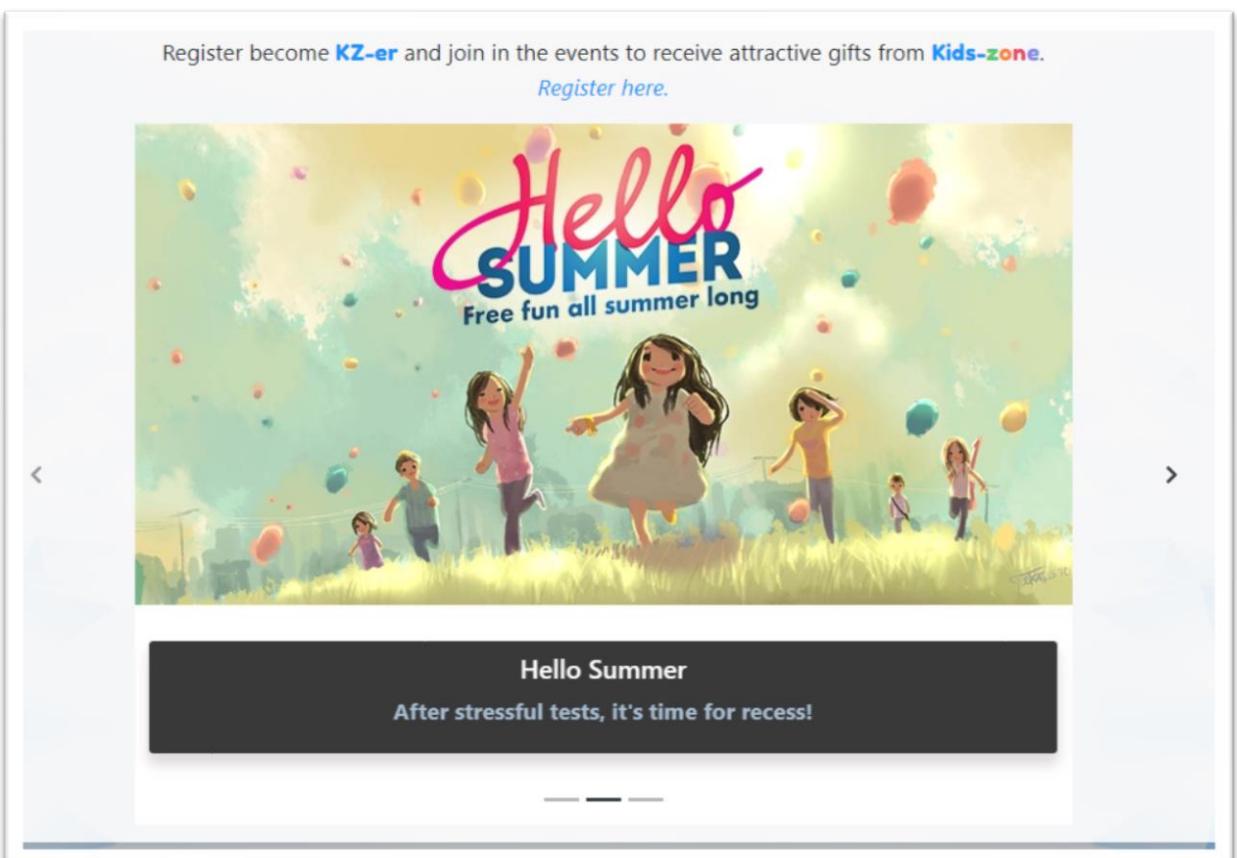
You can also see again your information in **Personal Information** at User button



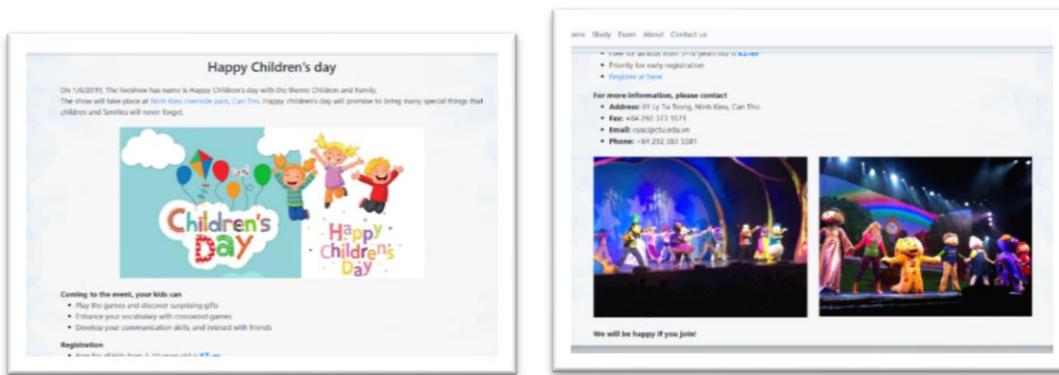
At **Personal Information page**, you can Update your information or Change your password



At the **Home page**, has some events that created every special day



Click on them to see more details:



3. To study:

Click the Subject Lesson at the sidebar, or if you use the smaller device, Study item will be at the Navigation Bar

Each the Subject Lessons, there are buttons, click on them to study more about them

Example: On the **Alphabet** page

Click Alphabet button on sidebar to forward to **Alphabet page**

Aa	Bb	Cc	Dd	Ee	Ff
Gg	Hh	Ii	Jj	Kk	Ll
Mm	Nn	Oo	Pp	Qq	Rr
Ss	Tt	Uu	Vv	Ww	Xx
Yy	Zz				

Scroll down to see the song of Subject lesson, each Subject has different song.

Click on each Letter button to study more

Letter B

B b

/bi:/

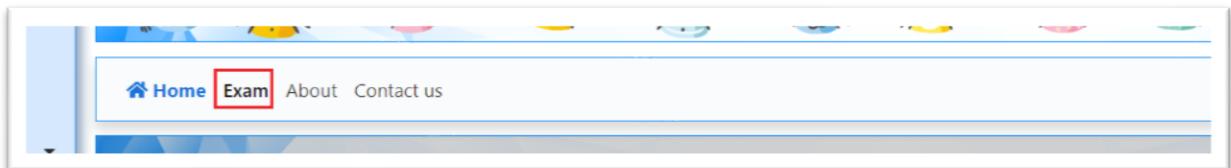
Banana
/ba'næna/

Some vocabulary

Badminton /bædminton/	Balloon /ba'lū/n/	Bee /bi:/	Bear /ber/
--------------------------	----------------------	--------------	---------------

4. Take the Exam:

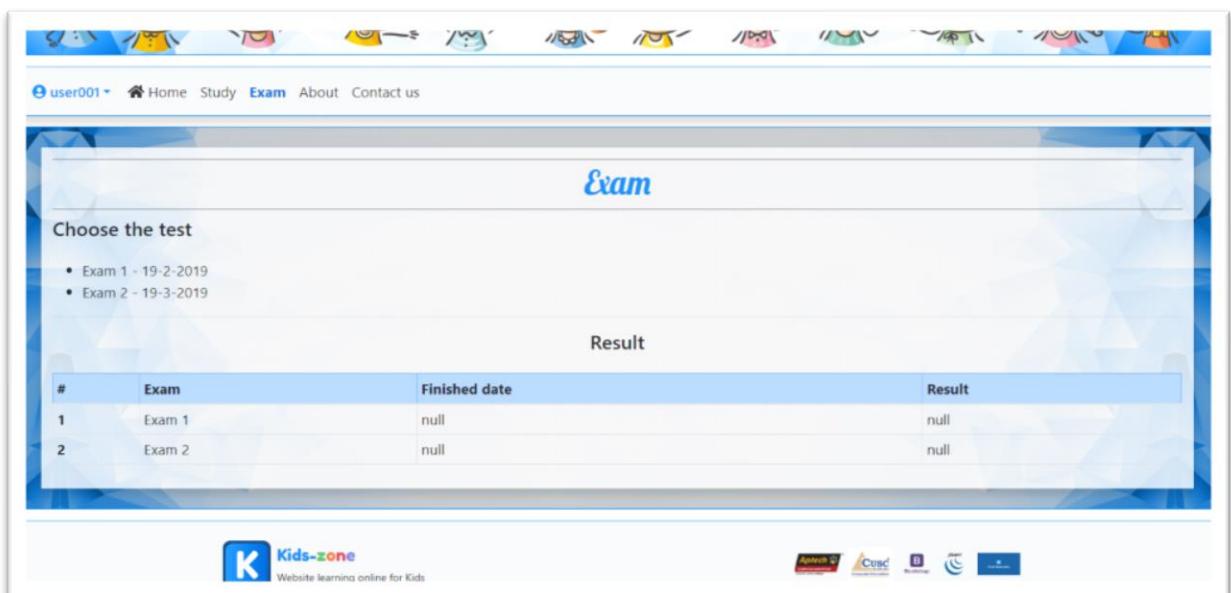
Click **Exam** button on NavigationBar



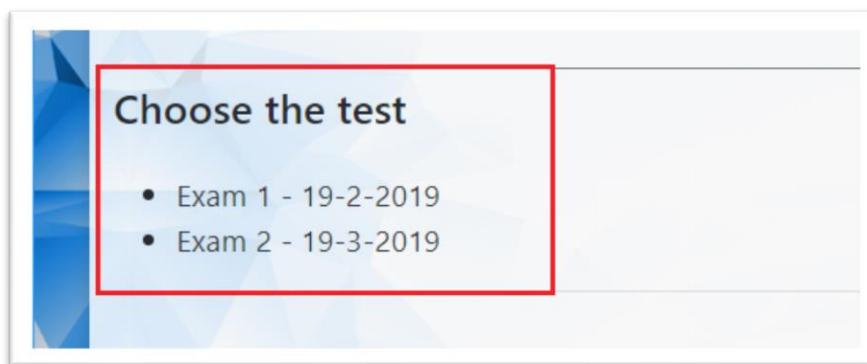
The you must be login to take exam (if you didn't login)



The Exam page:



Then click on the test and do it



Exam 2
19-3-2019

Question 1: Alphabet
I love ...og



Question 2: Numbers
How many fishes are there? - There are ... fishes



Question 3: Colors
The sea is ...



When you finished, click Submit to finish

Question 3: Colors
The sea is ...



Question 4: Maths
 $2 \times 2 = \dots$

4

After that, page will show your result

Exam 2
19-3-2019

Question 1: Alphabet
I love ...og
 ✓



Question 2: Numbers
How many fishes are there? - There are ... fishes
 ✗

Result: There are 5 fishes



Question 3: Colors
The sea is ...
 ✗

Result: This sea is blue



How many fishes are there? - There are ... fishes
 ✗

Result: There are 5 fishes



Question 3: Colors
The sea is ...
 ✗

Result: The sea is blue



Question 4: Maths
 $2 \times 2 = ...$
 ✓

OK

The correct answer has Green Color, the incorrect one has Red color and shows to correct answer below it.

When you finished your checking result, click **OK**, the page will forward to the **Exam page** again, at here, your result has been updated.

Exam

Choose the test

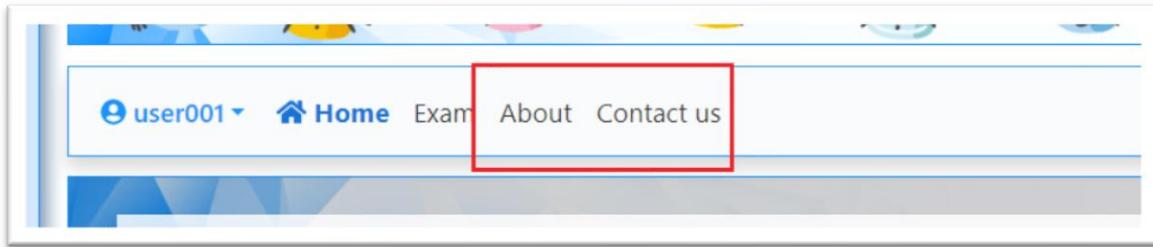
- Exam 1 - 19-2-2019
- Exam 2 - 19-3-2019

Result

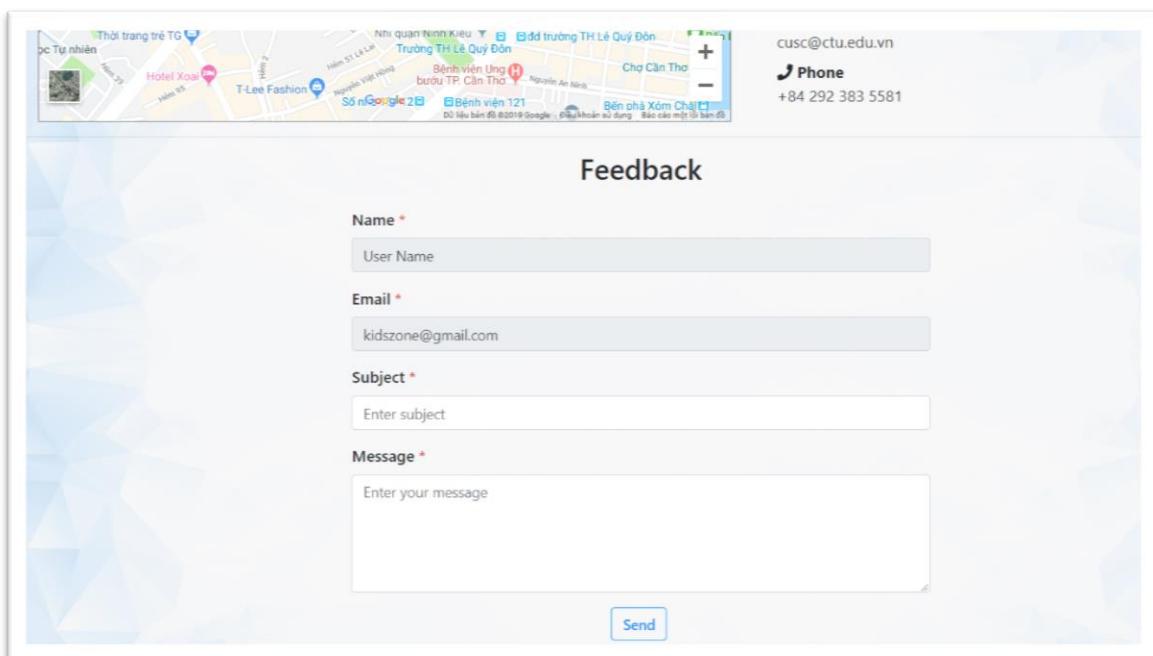
#	Exam	Finished date	Result
1	Exam 1	null	null
2	Exam 2	18-3-2019	50

About the Website and Developer team:

To know more, click About and Contact us



At the **Contact us page**, you can send feedback to us by scrolling at end of page, you will see the **Feedback form**



Feedback

Name *

Email *

Subject *

Message *

Send

If you loged-in, you will not need to fill the Name and Email (Information is gotten from your account).

You can also see more at the **footer** of website

