Term project:
BTS fan-site.

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Grade: *11”A” [I-2]*

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1. **Definition.**
    a. Description of the project.
        i. This is a website which is a fan-site dedicated to boys band BTS.
        ii. It is directed to making a visitor be familiar with their music and job.
        iii. Website is also a promotion of their last mini album called “LoveYourself: Her”.
        iv. Moreover, website is fanbase (community where fans are gathered), which can be developed to make fandom have opportunity to talk and discuss their idols. This is revolutionary, because this website will be the first biggest fanbase in Kazakhstan.
    b. Description of the the customer.
        i. It is planned to make the website public taking a fandom as a target audience, without a specific customer. By taking into consideration best existing international practices, the website was created for fans living in Kazakhstan, therefore the design and developing the project was implemented by idea of the developer, without a customer. Moreover, rights for the project are a totally owned by the developer.
    c. The methods that are used now.
        i. The fans of the group are currently all keeping in touch through social media, in different groups and public pages, however fans from Kazakhstan don’t have another chance, since there is no website or platform except social media, that’s why they are not gathered in one place unlike fanbases in other countries.
    d. Origin of the data.
        i. All registered fans’ data will be collected in one common database, which is working on a platform “phpMyAdmin”. When the amount of data will be massive, database will be separated into tables of regions, however initially, all data will be kept in one table.
    e. Forms of the data.
        i. There are forms of data such as text input and radio button input, with types of data like: string (text), integer (numbers), However, using type of encoding “utf-8”, data in database is kept in type: varchar.
2. **Investigation and Analysis.**
    a. Discussions with users: sessions of questions and answers, interviews.
        i. Answers are in Appendix C.1.
        ii. There was an interview held with one representative of the fandom (online, through social media), to have as much useful feedback, as possible, and the questions were the following:
            1. Which kind of design would be user friendly, bright background with dark texts or vise versa?
            2. Is there a need to place group biography on the site?
            3. Should the website be informative, if a stranger enters it?
            4. Would you like to see the website as a helpful tool, for listening to music for example?
            5. Should information in registration be massive or it’s better to make it small?
    b. What's wrong with the current solution?

i. Social media are not as reliable, as website could be, because the website always has credits and link to the rights at the bottom of each page, while it's not that possible in social media.
ii. Social media require registered account with big amount of information, while website doesn't.
iii. Website can unite fans all over Kazakhstan in one place, without pulling them to register in a specific social network to have an opportunity to join community.

c. Proposal of alternative solutions.
   i. There could also be created a mobile application.
   ii. Website.
   iii. Public page/group in social media.
d. Choosing a specific solution, justifying the choice.
   i. Website.
   ii. Because website is a platform where anything can be implemented, unlike restricted rules and frames of social networks with lack of possibility to upload long videos, categorized music, and etc. Having a website gives independence in creating a big platform for sharing thoughts, feelings and even help.
e. The client's questionnaire on the requirements for the future system.
   i. By talking to one representative of the fandom, several advise for the website were taken, namely:
      1. User friendly design, making it as simple as possible.
      2. Very limited data in registration, no need for long form.
      3. Informative, but still visually pleasant. Since site can also be introduction to the group for a stranger, information should be short, but effective.
      4. Strongly recommended to have a navigation bar.
      5. Rights surely should be kept.
f. System requirements.
   i. Browser of the device should have support for HTML5 to have a view on some features.
   ii. Website is actually adapted for mobile versions, so mobile devices won't have struggles with looking website through.
   iii. Website can work better with system of opportunity of working on several threads, to make operations fast.
   iv. Internet connection is strongly required to watch the website.
   v. There are videos on the website, so screen diameter and system opportunities will define which quality videos should be on the website, but it would be better if screen and system will have opportunity to upload highest quality for a better impression from the group.

3. **Project prototyping.**
    a. Setting goals for SMART and aligning them with the client.
        i.

S - specific	registration in database must work properly
M-measurable	navigation bar with items and about 5 pages must be till the deadline
A-achievable	base for the platform with basic information and registration must be implemented till the deadline for prototype
R-realistic	planned website can be further developed from the prototype
T-timely	prototype should be developed within a month

    b. Ways to input and output data.
        i. Input of the data is implemented through the registration form, and inserted into database. To be precise, tag <form> of HTML, PHP for connection with the server and SQL for query in database were used.
        ii. Output of the data is implemented through “echo” function of PHP to show result of the SQL query, on HTML page.
    c. Design of the project
        i. Appendix A.1.
        ii. Appendix A.2.
        iii. Appendix A.3.
        iv. Appendix A.4.
        v. Appendix A.5.
    d. Flowcharts.
        i. Appendix B.1.
    e. Project advantages and disadvantages.
        i. Disadvantages:
            1. Source code still requires further development.
            2. There is a need for hosting and domain name, to make website real and to make it exist in the net.
        ii. Advantages:
            1. Uniting fans of one group, who can support each other and help.
            2. Creating a platform one separate national community.
            3. Experience and practice for the developer.

4. Project implementation.

a. Algorithm description.

i.

Appendix D.1.	In this part of the code: 1) Php makes connection between user and server; 2) Data from the form is kept in variables; 3) 3 conditions check if user: a) Is really a fan (checking question); b) Really wants to register (yes/no question); c) When answers are positive query was made successfully; 4) Outputs data in accordance with conditions.
Appendix D.2.	This is a navigation bar for all pages (including design).
Appendix D.3.	This is a first (left) part of the form.
Appendix D.4.	This is a second (right) part of the form.
Appendix D.5.	This is a table (but not whole).
Appendix D.5.1	Example from how audios were inserted to website.
Appendix D.6.	List of albums using tag <ol>
Appendix D.6.1	Example of how video was inserted using tag <iframe> from “youtube.com”
Appendix D.7.0	How general information with image are placed into and divided horizontally.
Appendix D.7.1.	Lists placed in the bottom of the homepage.

5. Summary.

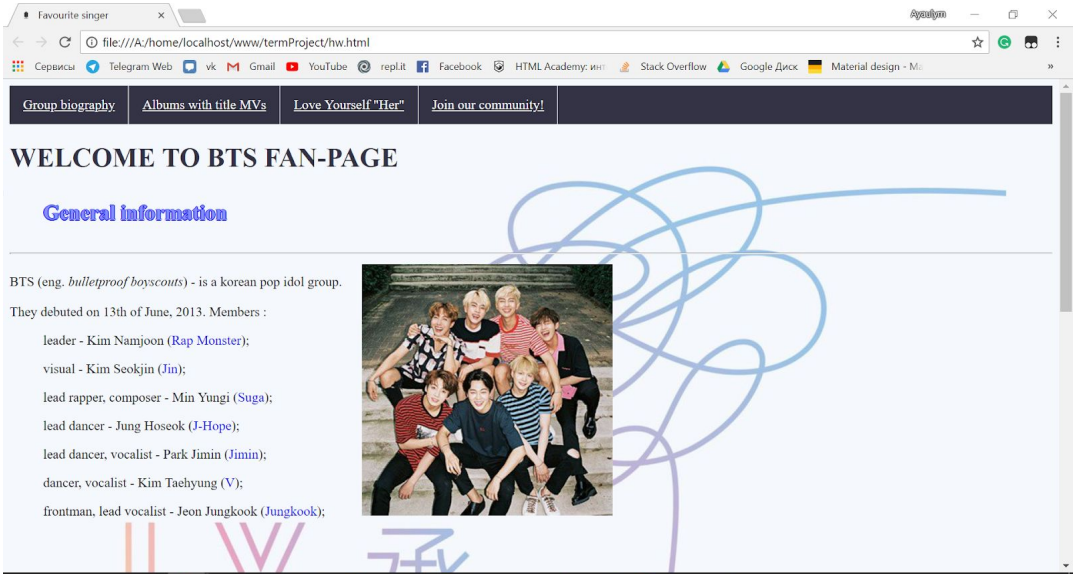
a. Goals were achieved and the project prototype was ready on time.

b. User (fandom representative, who has passed interview) has given a feedback to the prototype. Details in Appendix E.1.

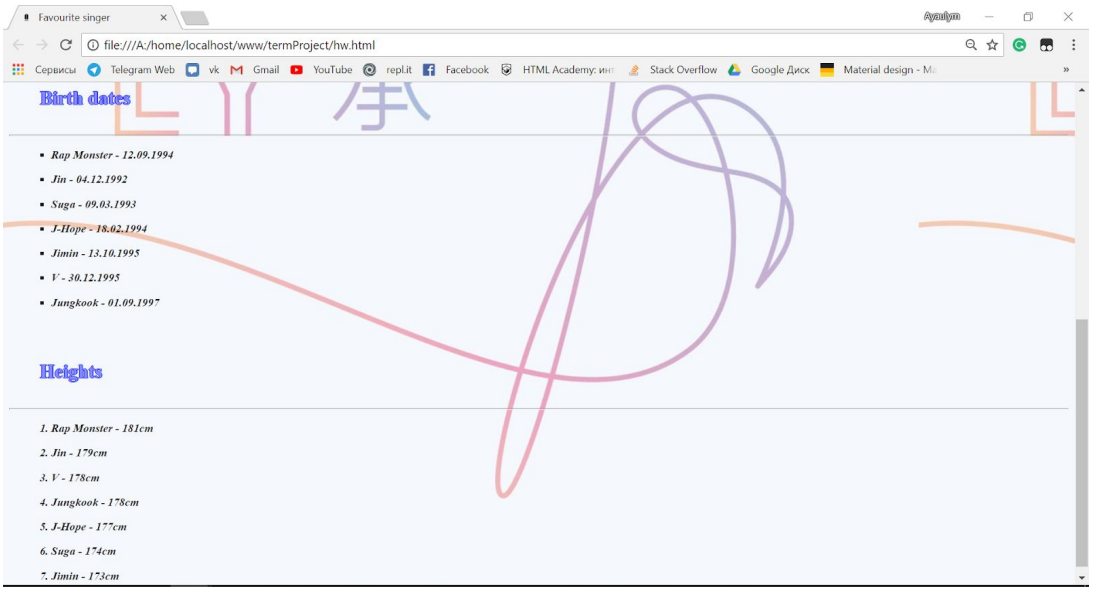
6. Appendix.

a. A.[1.1-1.2].

i.

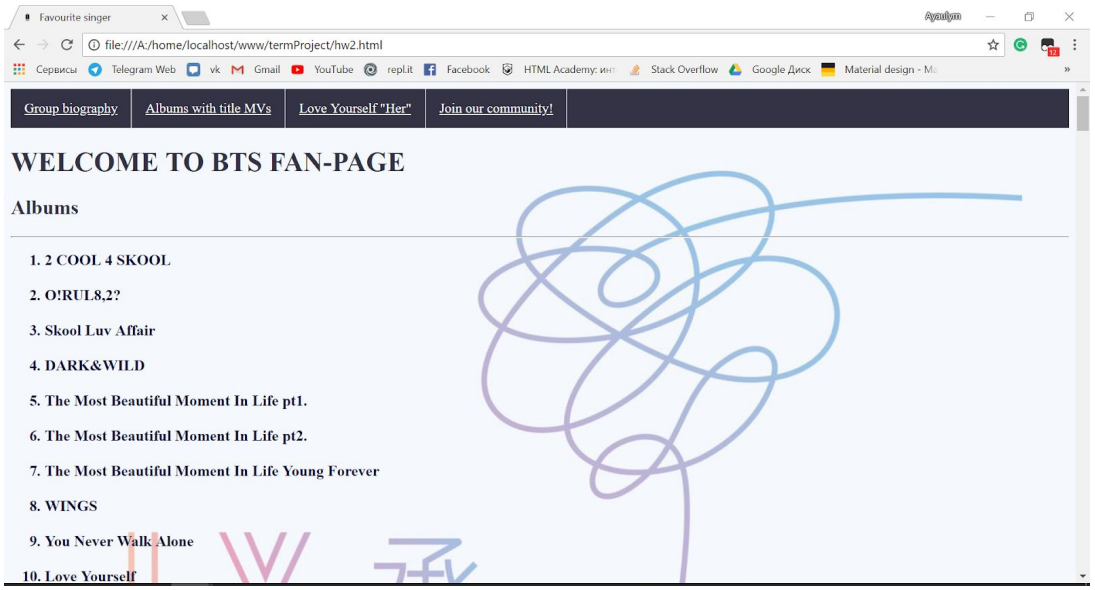


ii.

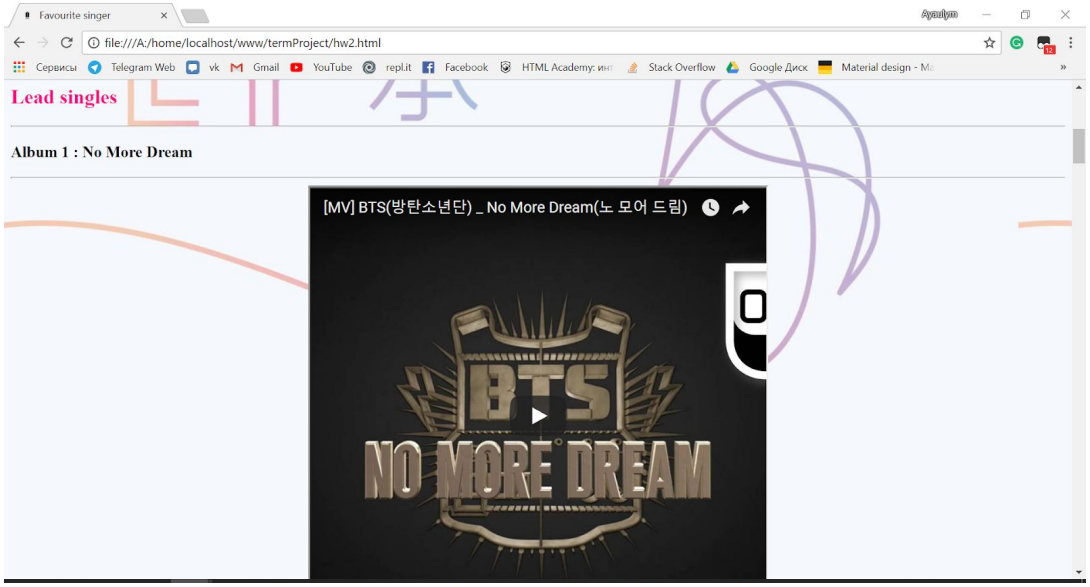


b. A.[2.1-2.3].

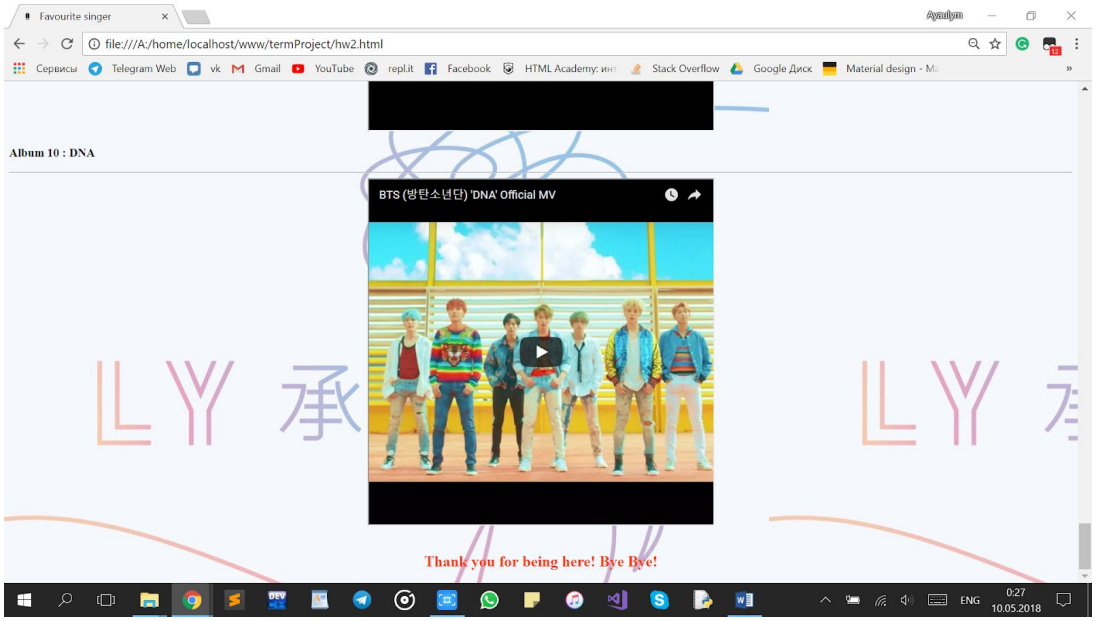
i.


Favourite singer
file:///A:/home/localhost/www/termProject/hw2.html
Group biography
Albums with title MVs
Love Yourself "Her"
Join our community!
WELCOME TO BTS FAN-PAGE
Albums
1. 2 COOL 4 SKOOL
2. O!RUL8,2?
3. Skool Luv Affair
4. DARK&WILD
5. The Most Beautiful Moment In Life pt1.
6. The Most Beautiful Moment In Life pt2.
7. The Most Beautiful Moment In Life Young Forever
8. WINGS
9. You Never Walk Alone
10. Love Yourself

ii.

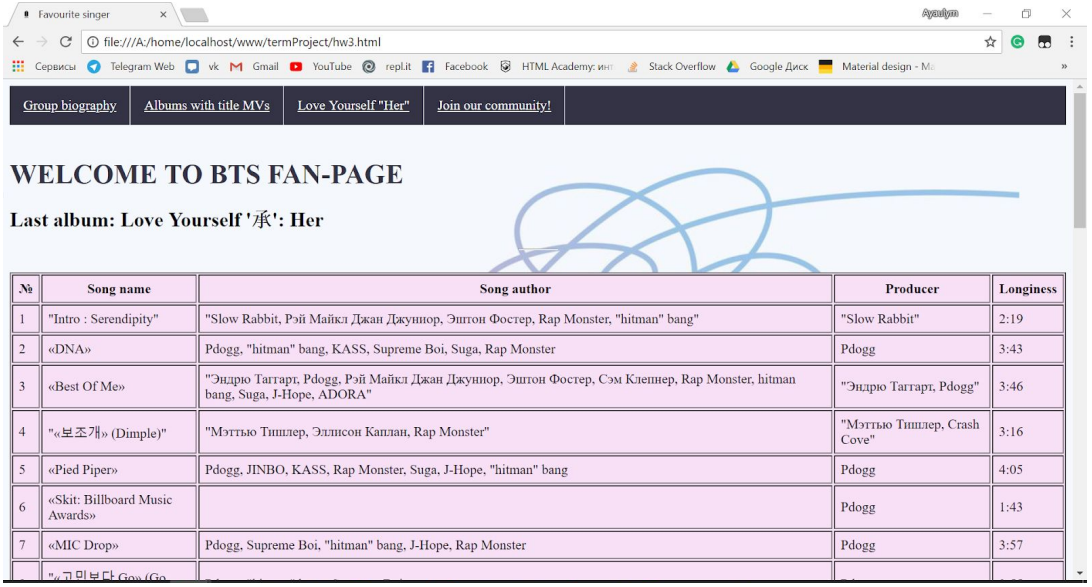

Favourite singer
file:///A:/home/localhost/www/termProject/hw2.html
Lead singles
Album 1 : No More Dream
[MV] BTS(방탄소년단) _ No More Dream(노 모어 드림)
BTS
NO MORE DREAM

iii.


Favourite singer
file:///A:/home/localhost/www/termProject/hw2.html
Album 10 : DNA
BTS (방탄소년단) 'DNA' Official MV
Thank you for being here! Bye Bye!
ENG
0:27
10.05.2018

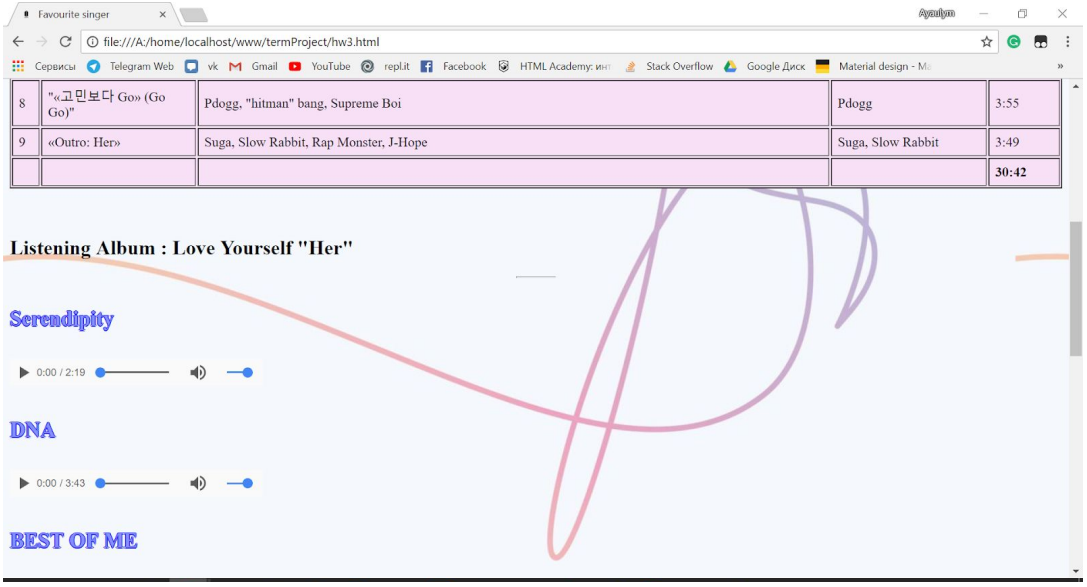
c. A.[3.1-3.3].

i.



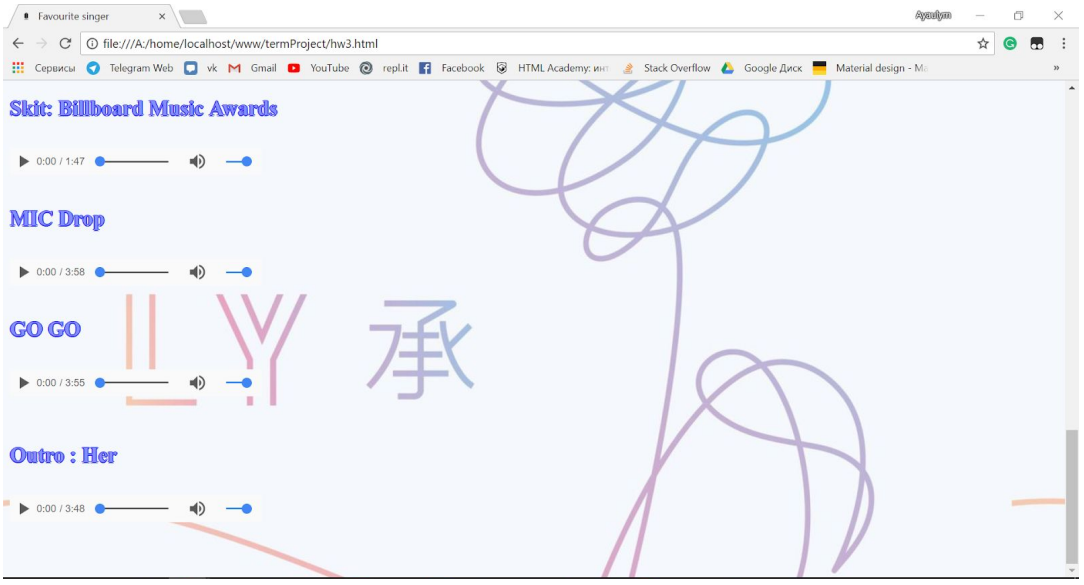
№	Song name	Song author	Producer	Longiness
1	"Intro : Serendipity"	"Slow Rabbit, Рэй Майкл Джан Джуниор, Эштон Фостер, Rap Monster, "hitman" bang"	"Slow Rabbit"	2:19
2	«DNA»	Pdogg, "hitman" bang, KASS, Supreme Boi, Suga, Rap Monster	Pdogg	3:43
3	«Best Of Me»	"Эндрю Таггарт, Pdogg, Рэй Майкл Джан Джуниор, Эштон Фостер, Сэм Клепнер, Rap Monster, hitman bang, Suga, J-Hope, ADORA"	"Эндрю Таггарт, Pdogg"	3:46
4	"«보조개» (Dimple)"	"Мэттью Тишлер, Эллисон Каплан, Rap Monster"	"Мэттью Тишлер, Crash Cove"	3:16
5	«Pied Piper»	Pdogg, JINBO, KASS, Rap Monster, Suga, J-Hope, "hitman" bang	Pdogg	4:05
6	«Skit: Billboard Music Awards»		Pdogg	1:43
7	«MIC Drop»	Pdogg, Supreme Boi, "hitman" bang, J-Hope, Rap Monster	Pdogg	3:57

ii.



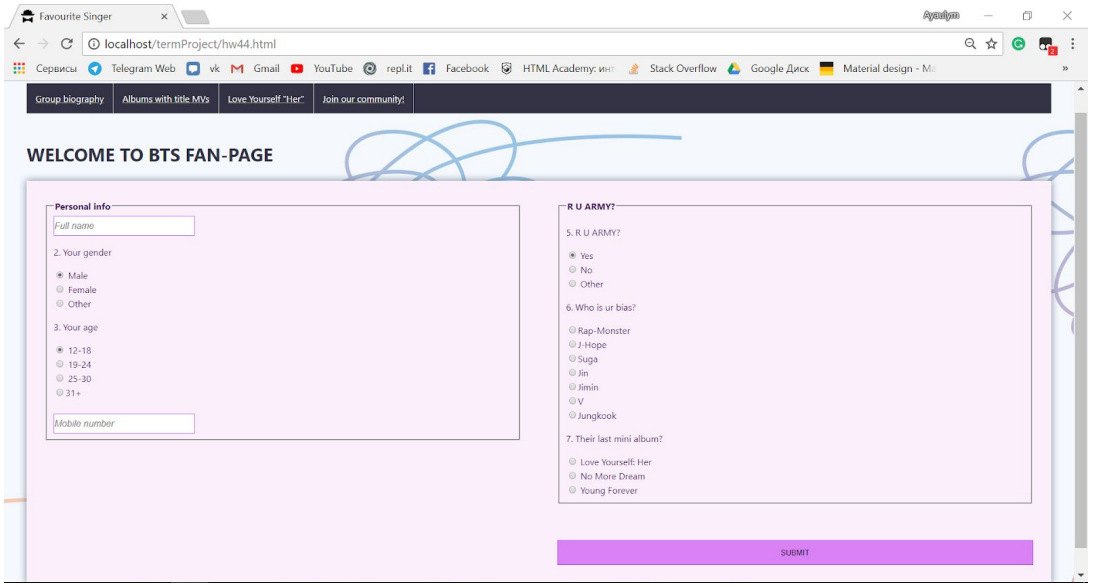
8	"«고민보다 Go» (Go Go)"	Pdogg, "hitman" bang, Supreme Boi	Pdogg	3:55
9	«Outro: Her»	Suga, Slow Rabbit, Rap Monster, J-Hope	Suga, Slow Rabbit	3:49
				30:42

iii.



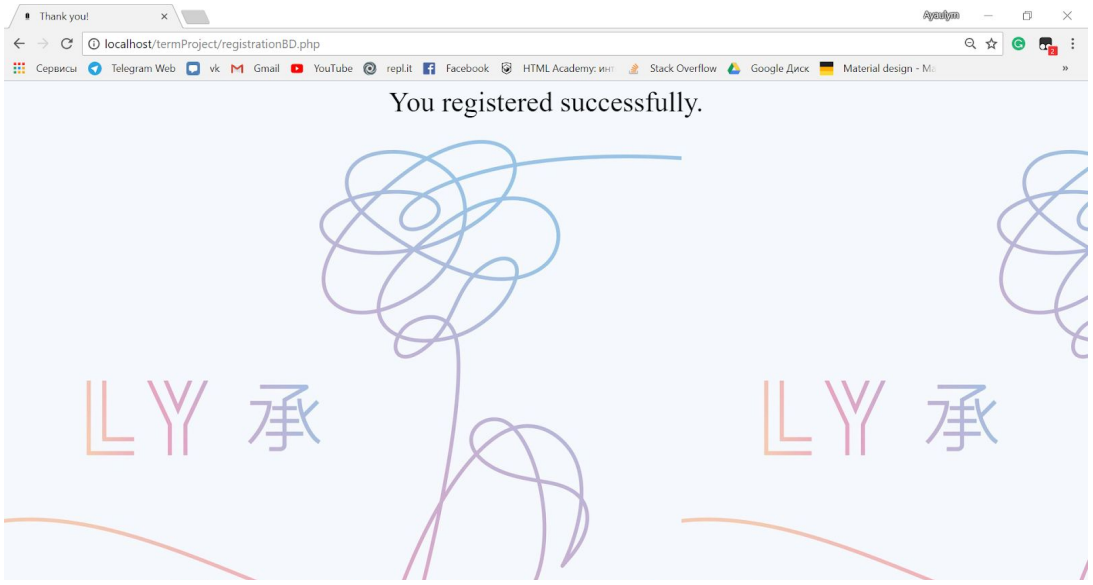
d. A.4.

i.



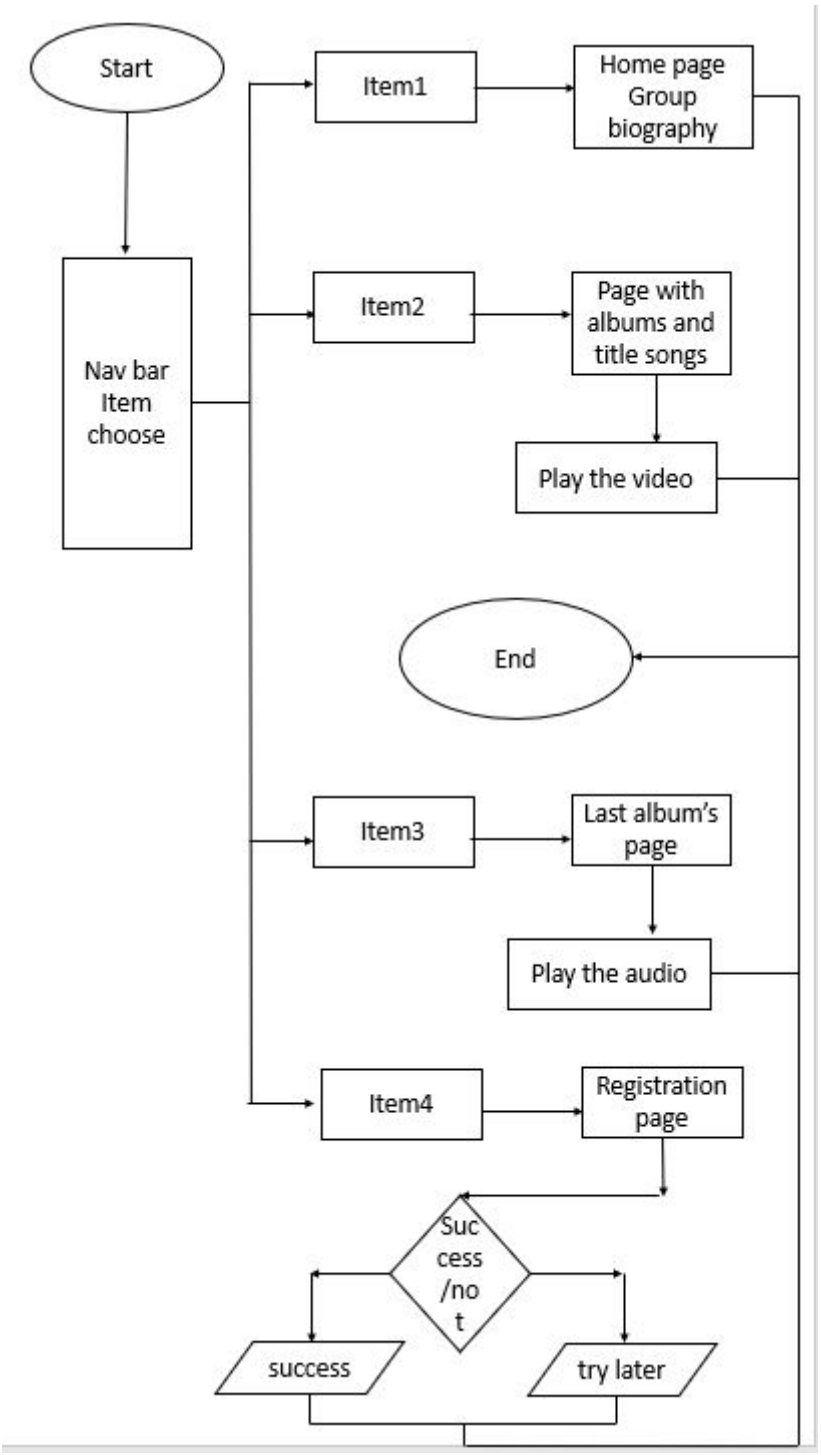
e. A.5.

i.



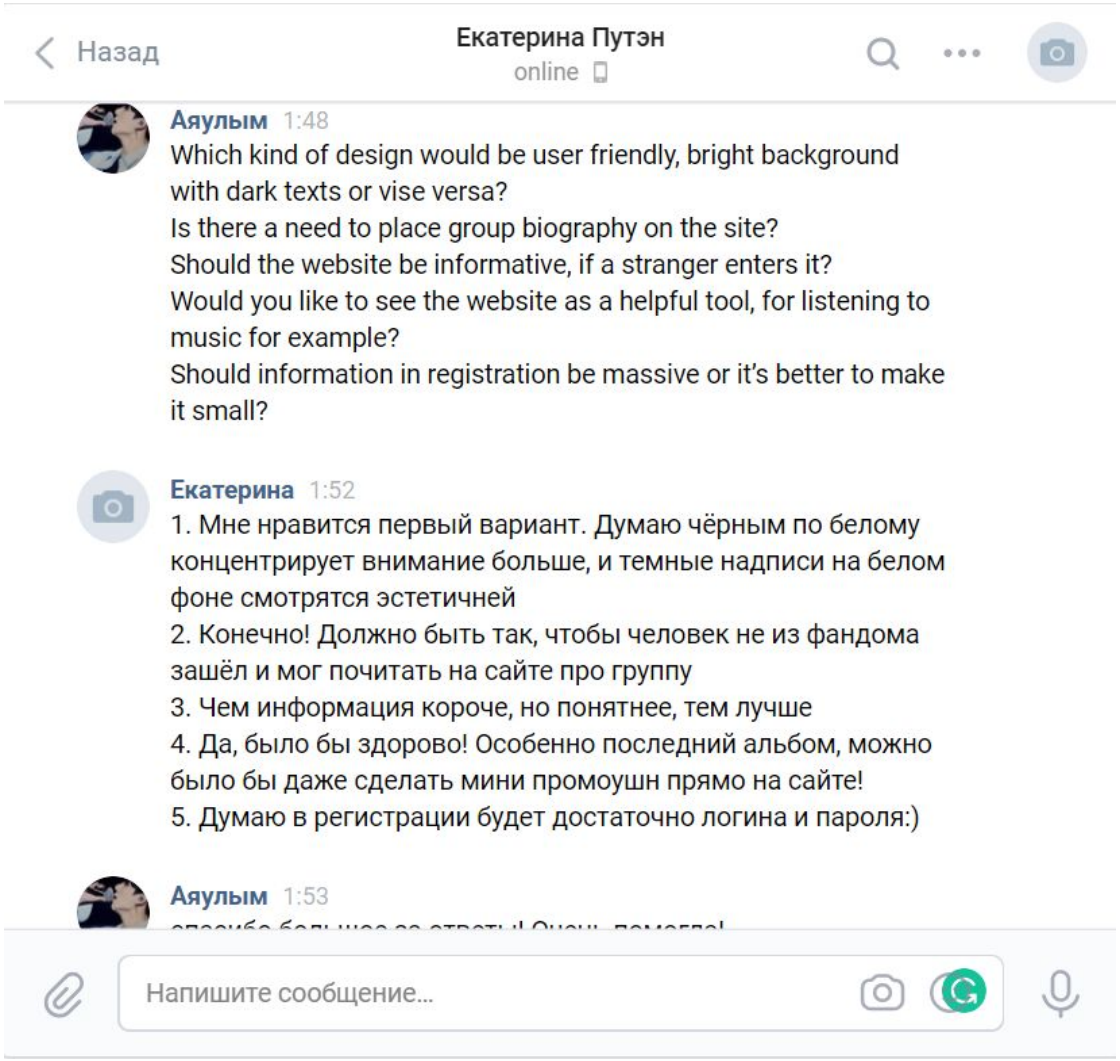
f. B.1.

i.


Start
Item1
Home page
Group
biography
Nav bar
Item
choose
Item2
Page with
albums and
title songs
Play the video
End
Item3
Last album's
page
Play the audio
Item4
Registration
page
Suc
cess
/no
t
success
try later

g. **C.1.**

i.



h. D.1

i.

```php
<?php
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "test";
    $conn = new mysqli($servername, $username, $password, $dbname);

        $fullname = $_POST['fullname'];
        $gender = $_POST['gender'];
        $age = $_POST['age'];
        $phoneNumber = $_POST['mobile'];
        $armyCheck = $_POST['armyCheck'];
        $bias = $_POST['bias'];
        $lastAlbum = $_POST['lastAlbum'];


        if ($armyCheck=="no" || $armyCheck=="other") {
            echo '<span style="color:#111;text-align:center;font-size:50px;">You said you are not an ARMY. GO AWAY.';
        }
        else{
            if ($lastAlbum=="NoMoreDream" || $lastAlbum=="YoungForever") {
                echo '<span style="color:#111;text-align:center;font-size:50px;">You did not answer checking question correctly. <br> You are not ARMY.';
            }
            else{
                $sql = "INSERT INTO `registrationbtssite`.`armys` (`fullName`, `gender`, `age`, `phoneNumber`, `army`, `bias`, `miniAlbum`) VALUES ('$fullname', '$gender', '$
                    age', '$phoneNumber', '$armyCheck', '$bias', '$lastAlbum');";
                if ($conn->connect_error) {
                    die("Connection failed: " . $conn->connect_error);
                }

                if ($conn->query($sql) === TRUE) {
                    echo '<span style="color:#111;text-align:center;font-size:50px;">You registered successfully.';
                } else {
                    echo "Error: " . $sql . "<br>" . $conn->error;
                }

                $conn->close();
                        }
        }
?>
```

i. **D.2.**

i.

```html
<div>
  <ul class="navbar">
    <li class="navbarOption"><a href="hw.html" class="navbarLink">Group biography</a></li>
    <li class="navbarOption"><a href="hw2.html" class="navbarLink">Albums with title MVs</a></li>
    <li class="navbarOption"><a href="hw3.html" class="navbarLink">Love Yourself "Her"</a></li>
    <li class="navbarOption"><a href="http://localhost/termProject/hw44.html" class="navbarLink">Join our community!</a></li>
  </ul>
</div>
```

ii.

```css
.navbar{
    list-style-type: none;
    margin: 0;
    padding: 0;
    overflow: hidden;
    background-color: #333345;
}
.navbarOption{
    float: left;
    border-right: 1px solid #bbb;
}
.navbarLink{
    display: block;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: underline;
}
.navbarLink:hover{
    background-color: #3FAC98;
}
.navbarLink:last-child{
    border-right: none;
}
```

j. **D.3.**

i.

```html
<!--creating a wrapper-->
<div class="wrapper">
  <!--first part of the form-->
    <div class="personalInfo">
        <form action="registrationBD.php" method="POST">
        <fieldset>
        <legend><b>Personal info</b></legend>

          <input type="text" name="fullname" placeholder="Full name">

          <p>2. Your gender</p>
          <input type="radio" name="gender" value="Male" checked> Male<br>
          <input type="radio" name="gender" value="Female"> Female<br>
          <input type="radio" name="gender" value="Other"> Other

          <p>3. Your age</p>
          <input type="radio" name="age" value="teen" checked> 12-18 <br>
          <input type="radio" name="age" value="youth"> 19-24 <br>
          <input type="radio" name="age" value="adult"> 25-30 <br>
          <input type="radio" name="age" value="old">31+<br><br>

          <input type="text" name="mobile" placeholder="Mobile number">
          </fieldset>
    </div>
```

k. **D.4.**

i.

```
<!--second part of the form-->
  <div class="form2">
      <fieldset>
      <legend><b>R U ARMY?</b></legend>

      <p>5. R U ARMY?</p>
      <input type="radio" name="armyCheck" value="yes" checked> Yes<br>
      <input type="radio" name="armyCheck" value="no"> No<br>
      <input type="radio" name="armyCheck" value="other"> Other

      <p>6. Who is ur bias?</p>
      <input type="radio" name="bias" value="RM">Rap-Monster<br>
      <input type="radio" name="bias" value="J-Hope">J-Hope<br>
      <input type="radio" name="bias" value="Suga" >Suga<br>
      <input type="radio" name="bias" value="Jin">Jin<br>
      <input type="radio" name="bias" value="Jimin" >Jimin<br>
      <input type="radio" name="bias" value="V">V<br>
      <input type="radio" name="bias" value="Jungkook">Jungkook<br>

      <p>7. Their last mini album?</p>
      <input type="radio" name="lastAlbum" value="LoveYourself"> Love Yourself: Her<br>
      <input type="radio" name="lastAlbum" value="NoMoreDream"> No More Dream<br>
      <input type="radio" name="lastAlbum" value="YoungForever"> Young Forever<br>
      </fieldset>
  </div>
  <br>
  <div style="text-align: right; align-items: right;">
    <button>Submit</button>
  </div>
</form>
</div>
```

l. **D.[5.0-5.1].**

i.

```
<table border="yes" cellpadding="7" bgcolor="F8E0F7">
    <tr>
        <th>
            №
        </th>
        <th>
            Song name
        </th>
        <th>
            Song author
        </th>
        <th>
            Producer
        </th>
        <th>
            Longiness
        </th>
    </tr>
    <font size="3" color="0B0B3B"><tr>
        <td>
            1
        </td>
        <td>
            "Intro : Serendipity"
        </td>
        <td>
            "Slow Rabbit, Рэй Майкл Джан Джуниор, Эштон Фостер, Rap Monster, "hitman" bang"
        </td>
        <td>
            "Slow Rabbit"
        </td>
        <td>
            2:19
        </td>
    </tr>
```

ii.

```
<h2>Listening Album : Love Yourself "Her"</h2>
<hr width="45">
    <h4>Serendipity</h4>
<audio controls="true">
    <source src="SERENDIPITY.mp3" type="audio/mpeg">
</audio>
<br>
```

m. Appendix D.[6.0-6.1].

i.

```
<h1><font color = #333345>WELCOME TO BTS FAN-PAGE</font></h1>
<h2><font color = #333345>Albums</font></h2>
<hr>
<ol><font size="4" color="0B0B3B"><b>
    <li>2 COOL 4 SKOOL</li>
    <br>
    <li>O!RUL8,2?</li>
    <br>
    <li>Skool Luv Affair</li>
    <br>
    <li>DARK&WILD</li>
    <br>
    <li>The Most Beautiful Moment In Life pt1.</li>
    <br>
    <li>The Most Beautiful Moment In Life pt2.</li>
    <br>
    <li>The Most Beautiful Moment In Life Young Forever</li>
    <br>
    <li>WINGS</li>
    <br>
    <li>You Never Walk Alone</li>
    <br>
    <li>Love Yourself</li>
    </b>
    </font>
</ol>
```

ii.

```
<h3>Album 1 : No More Dream</h3>
<hr>
<div align="center">
<iframe width="540" height="540"
src="https://www.youtube.com/embed/pw540DtB5mM">
</iframe>
</div>
```

n. Appendix D.[7.0-7.1].

i.

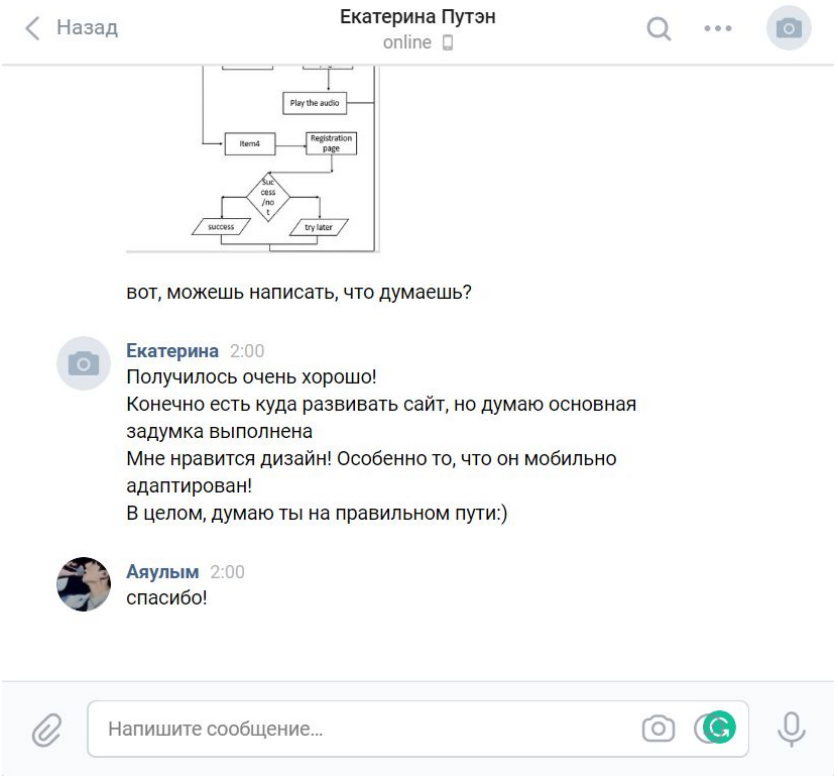
```
<blockquote><h4>General information</h4></blockquote>

<hr></hr>

<div style="white-space: nowrap;">
    <div style="display: inline-block; white-space: nowrap;">
    <p><font size="3">BTS (eng. <i>bulletproof boyscouts</i>) - is a korean pop idol group.<br><br>
        They debuted on 13th of June, 2013. Members :<br>

    <blockquote>leader - Kim Namjoon (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%A0%D1%8D%D0%BF-%D0%BC%D0%BE%D0%BD%D1%81%D1%82%D1%80">Rap Monster</a>);</
    blockquote>

    <blockquote>visual - Kim Seokjin (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%9A%D0%B8%D0%BC_%D0%A1%D0%BE%D0%BA%D1%87%D0%B8%D0%BD">Jin</a>); </blockquote>

     <blockquote>lead rapper, composer - Min Yungi (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%9C%D0%B8%D0%BD_%D0%AE%D0%BD%D0%B3%D0%B8">Suga</a>);</blockquote>


     <blockquote>lead dancer - Jung Hoseok (<a class="links" href = "https://ru.wikipedia.org/wiki/J-Hope">J-Hope</a>);</blockquote>

     <blockquote>lead dancer, vocalist - Park Jimin (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%9F%D0%B0%D0%BA_%D0%A7%D0%B8_%D0%9C%D0%B8%D0%BD">Jimin</a>);</
     blockquote>

    <blockquote>dancer, vocalist - Kim Taehyung (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%9A%D0%B8%D0%BC_%D0%A2%D1%85%D1%8D_%D0%A5%D1%91%D0%BD">V</a>);</
    blockquote>

     <blockquote>frontman, lead vocalist - Jeon Jungkook (<a class="links" href = "https://ru.wikipedia.org/wiki/%D0%A7%D0%BE%D0%BD_%D0%94%D0%B6%D0%BE%D0%BD%D0%B3%D1%83%D0%BA">
     Jungkook</a>);</blockquote></font></p>

     </div>
    <div style="display: inline-block; white-space: nowrap;">
        <img src="https://www.allkpop.com/plugin/artisttag_link/img/artist_1484770287_bts.jpg">
    </div>
</div>
```

ii.

```
<blockquote><h4>Birth dates</h4></blockquote>
<hr></hr>
<ul style="list-style-type: square;">
<li class="specialLi">Rap Monster - 12.09.1994
<br>
<li class="specialLi">Jin - 04.12.1992
<br>
<li class="specialLi">Suga - 09.03.1993
<br>
<li class="specialLi">J-Hope - 18.02.1994
<br>
<li class="specialLi">Jimin - 13.10.1995
<br>
<li class="specialLi">V - 30.12.1995
<br>
<li class="specialLi">Jungkook - 01.09.1997
</ul>
<br>
<blockquote><h4>Heights</h4></blockquote>
<hr></hr>
<ol>
<li class="specialLi">Rap Monster - 181cm
<br>
<li class="specialLi">Jin - 179cm
<br>
<li class="specialLi">V - 178cm
<br>
<li class="specialLi">Jungkook - 178cm
<br>
<li class="specialLi">J-Hope - 177cm
<br>
<li class="specialLi">Suga - 174cm
<br>
<li class="specialLi">Jimin - 173cm
<br>
</ol>
```

o. **E.1.**

i.


Назад
Екатерина Путэн
online
Play the audio
Item4
Registration page
success
try later
вот, можешь написать, что думаешь?
Екатерина 2:00
Получилось очень хорошо!
Конечно есть куда развивать сайт, но думаю основная задумка выполнена
Мне нравится дизайн! Особенно то, что он мобильно адаптирован!
В целом, думаю ты на правильном пути:)
Аяулым 2:00
спасибо!
Напишите сообщение...