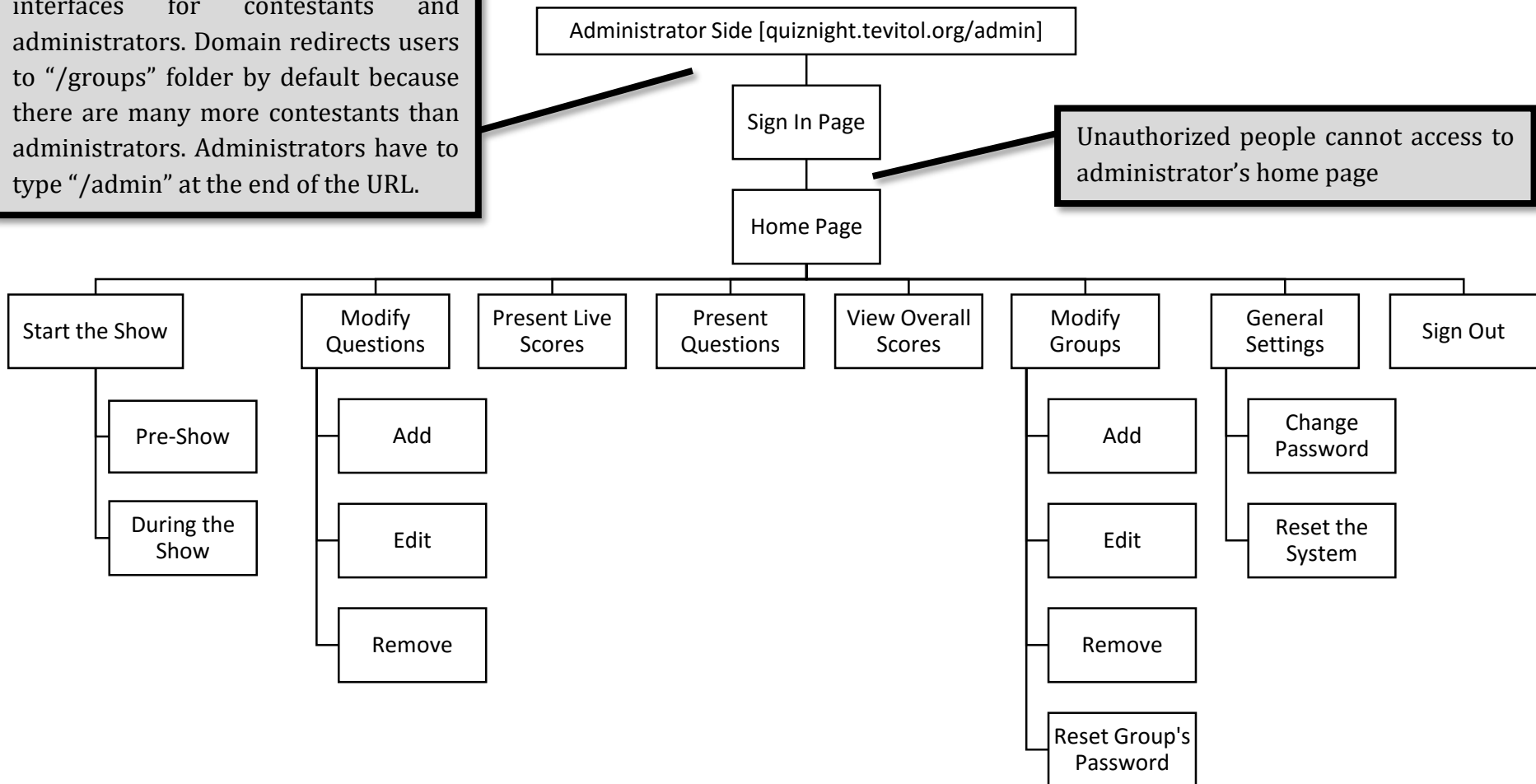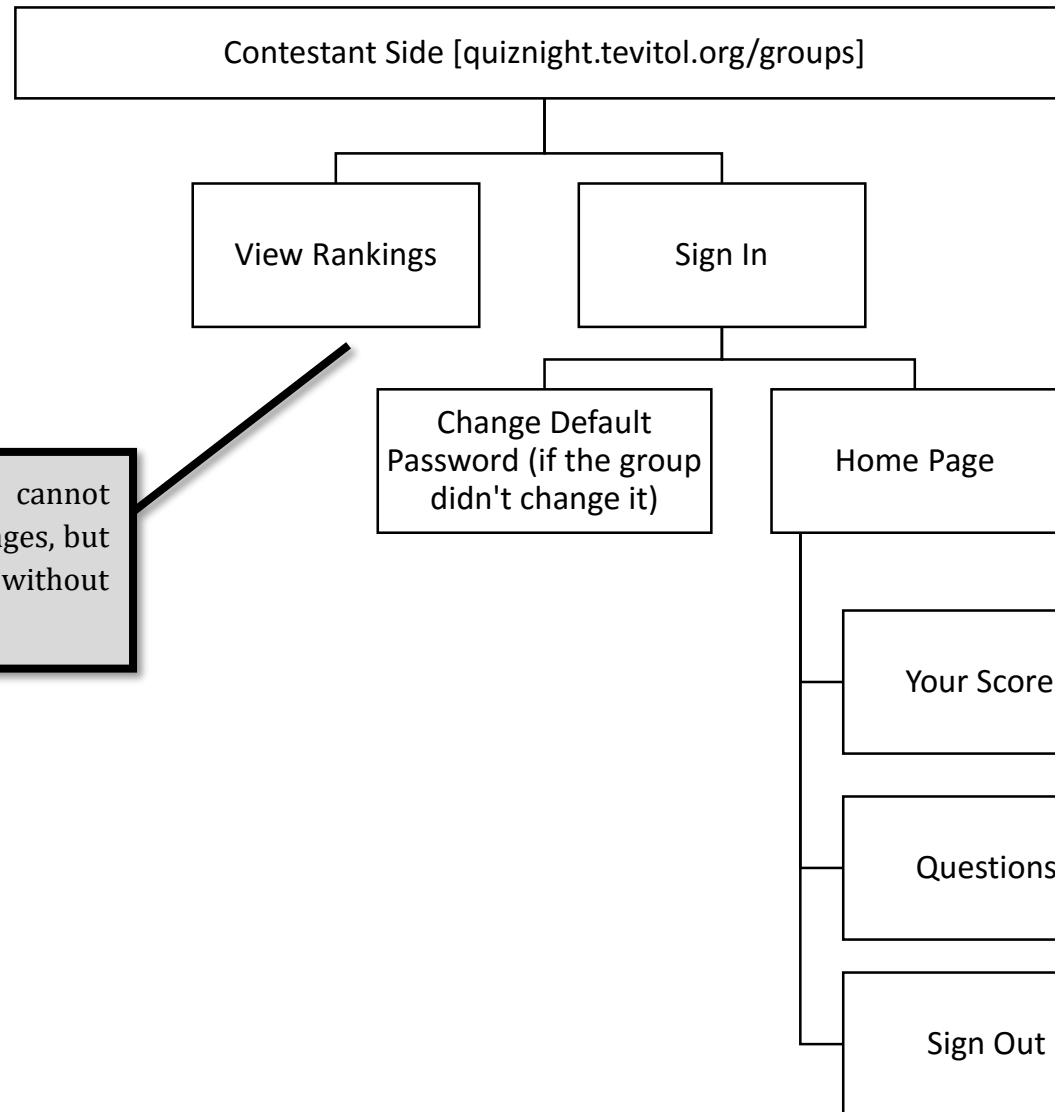# Criterion D: Product design—Overall structure
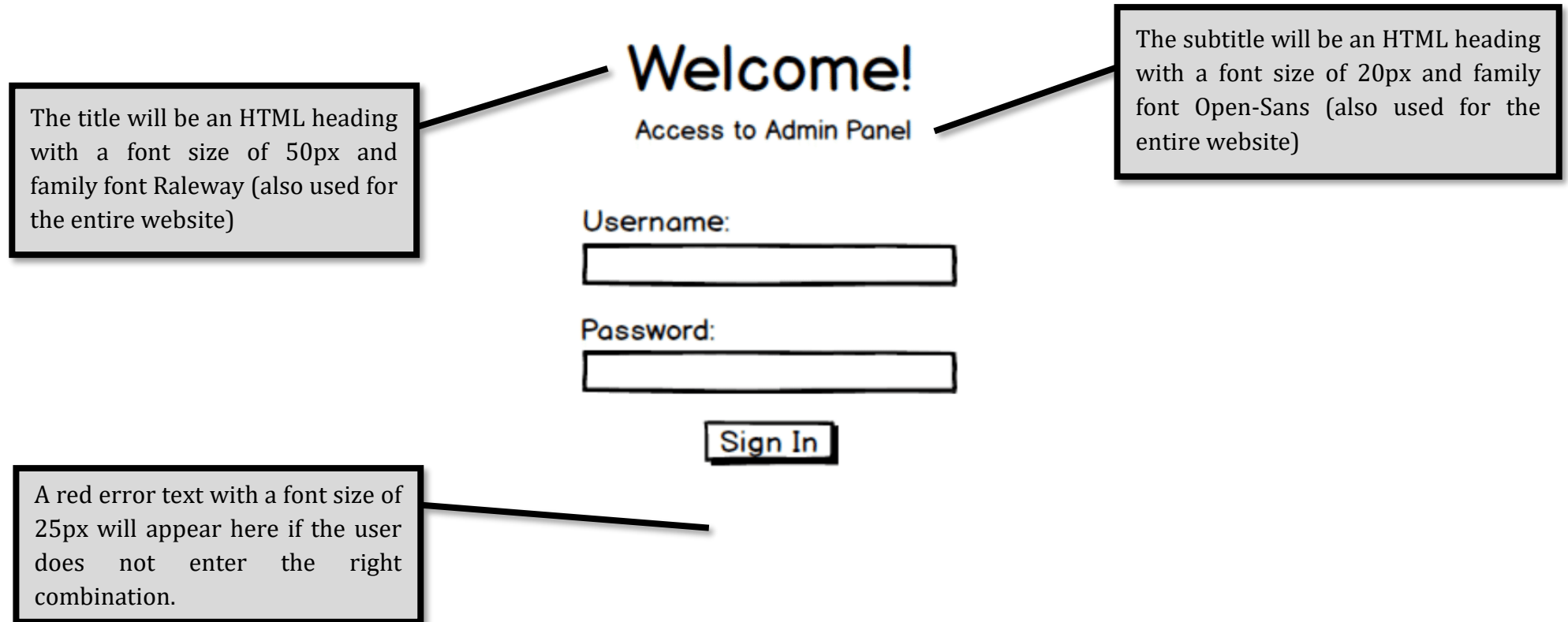
There are two entirely different interfaces for contestants and administrators. Domain redirects users to "/groups" folder by default because there are many more contestants than administrators. Administrators have to type "/admin" at the end of the URL.

Administrator Side [quiznight.tevitol.org/admin]

Sign In Page

Unauthorized people cannot access to administrator's home page

Home Page

- Start the Show
  - Pre-Show
  - During the Show
- Modify Questions
  - Add
  - Edit
  - Remove
- Present Live Scores
- Present Questions
- View Overall Scores
- Modify Groups
  - Add
  - Edit
  - Remove
  - Reset Group's Password
- General Settings
  - Change Password
  - Reset the System
- Sign Out

```
Contestant Side [quiznight.tevitol.org/groups]
```
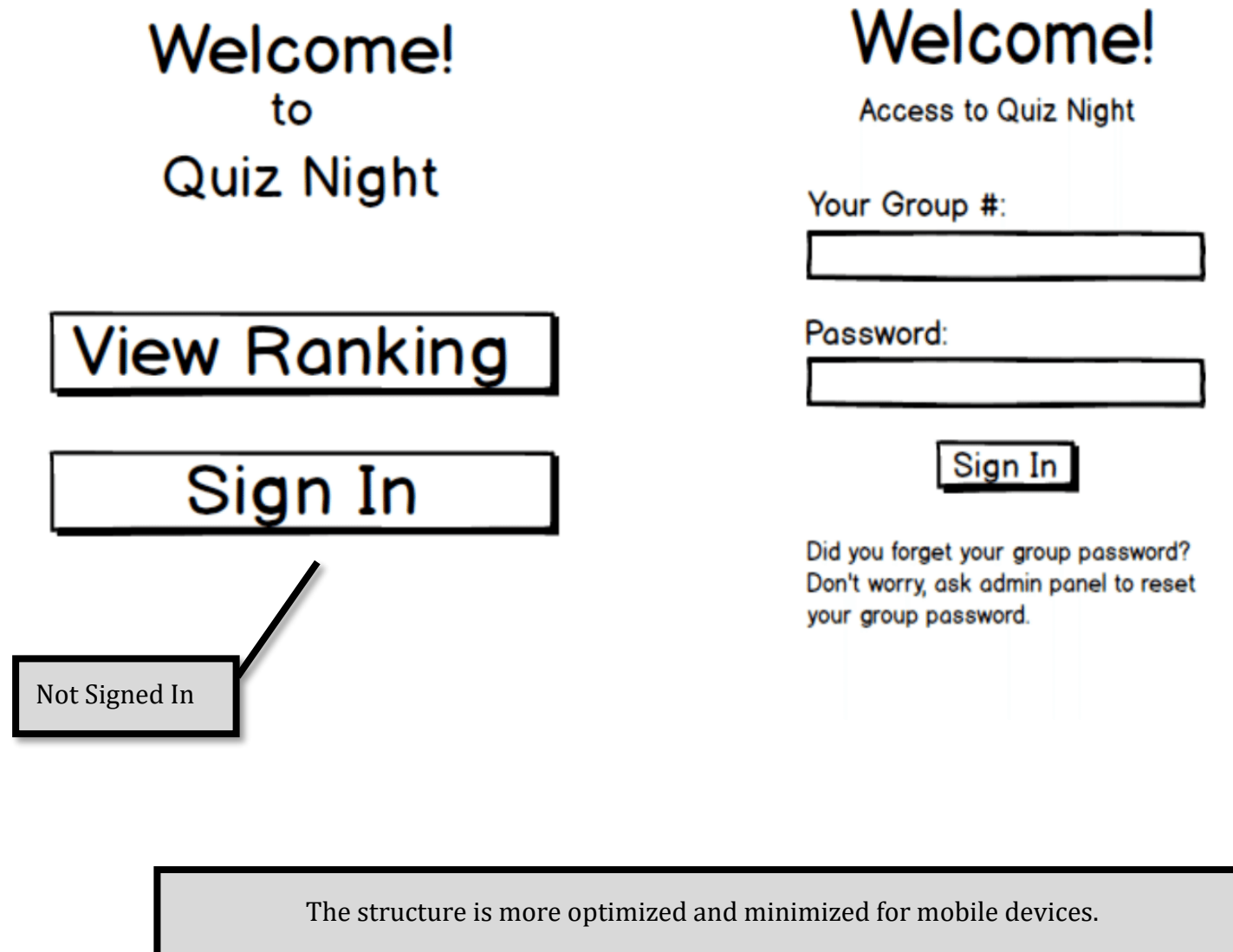
```
View Rankings                    Sign In
```

Unauthorized people cannot access to groups' home pages, but they can view rankings without any authorization.

```
Change Default
Password (if the group          Home Page
didn't change it)
```

```
Your Scores
```

```
Questions
```

```
Sign Out
```

Overall structure of Administrator Side – Sign In Page

Welcome!

Access to Admin Panel

The title will be an HTML heading with a font size of 50px and family font Raleway (also used for the entire website)

The subtitle will be an HTML heading with a font size of 20px and family font Open-Sans (also used for the entire website)

Username:

Password:

Sign In

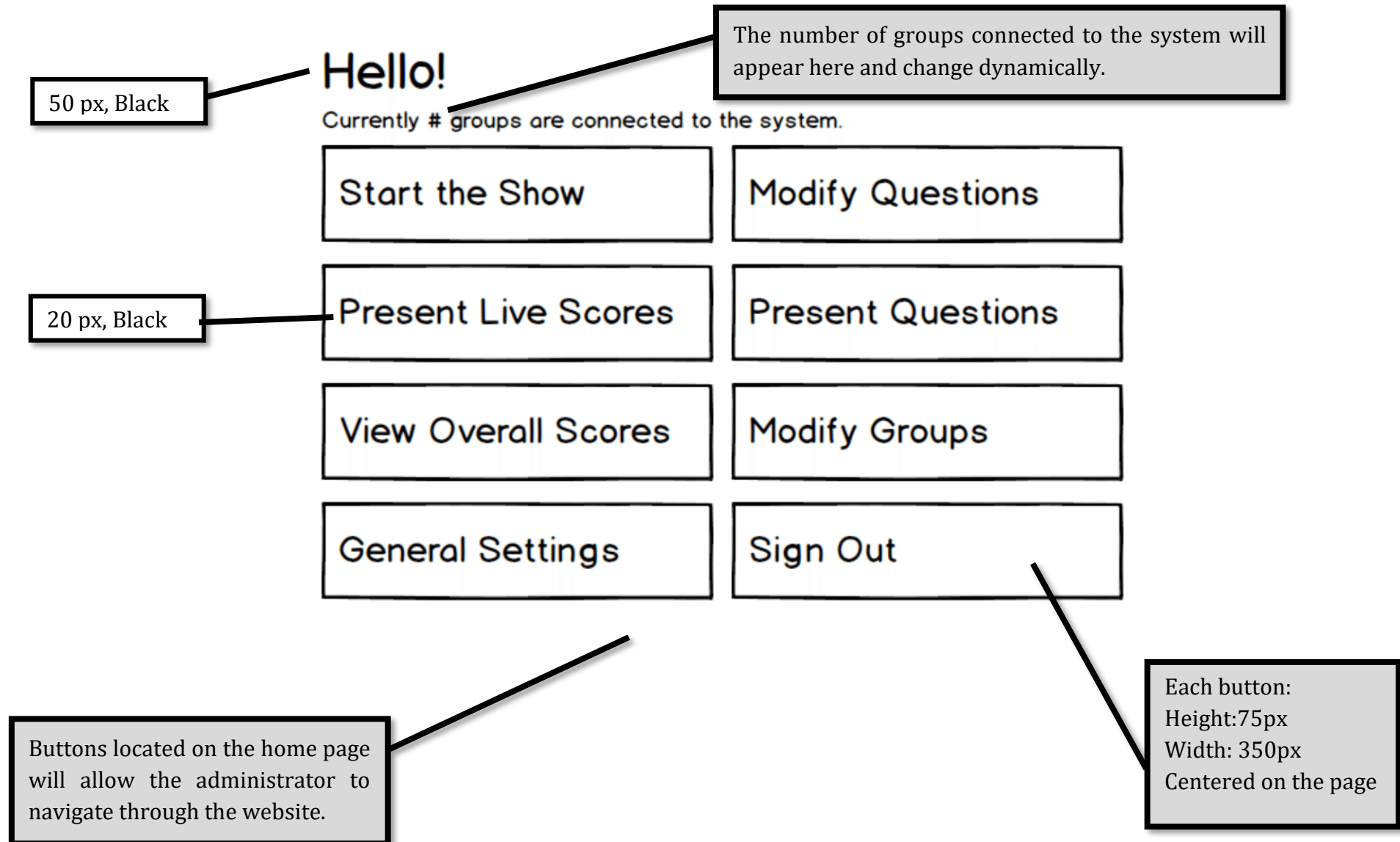A red error text with a font size of 25px will appear here if the user does not enter the right combination.

Note: "Balsamiq Mockups" program is used to design and mockup the entire website.

Overall structure of Contestant Side – Sign In Page

Welcome!
to
Quiz Night

| View Ranking |

| Sign In |

Not Signed In

Welcome!

Access to Quiz Night

Your Group #:

Password:

| Sign In |

Did you forget your group password?
Don't worry, ask admin panel to reset
your group password.

The structure is more optimized and minimized for mobile devices.

Overall structure of Administrator Side – Home Page

Hello!

Currently # groups are connected to the system.

Start the Show	Modify Questions
Present Live Scores	Present Questions
View Overall Scores	Modify Groups
General Settings	Sign Out

50 px, Black

20 px, Black

The number of groups connected to the system will appear here and change dynamically.

Buttons located on the home page will allow the administrator to navigate through the website.

Each button:
Height:75px
Width: 350px
Centered on the page

Overall structure of Contestant Side – Home Page

Welcome!
to
Quiz Night

Your Scores

Questions

Sign Out

The structure is more optimized and minimized for mobile devices.

Overall Layout of Administrator Side – Start the Show – Pre Show

Current page becomes blue in the bar (also used for the entire website)

Menu bar for easy navigation between pages (also used for the entire website)

| Admin Panel | **Start the Show** | Present Live Scores | Present Questions | |

Currently # groups are connected to the system.
Connected Groups: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12

Connected groups will dynamically change

Are live scores ready?
Is the projector for the questions ready?
Are there any connection problems?

Everything Is Ready, Show the First Question

Overall Layout of Administrator Side – Start the Show – During Show

Current question, its number, and its answer will appear and dynamically change here

| Admin Panel | **Start the Show** | Present Live Scores | Present Questions | |

Currently # groups are connected to the system.
Connected Groups: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12
Current question: 20

Current Question
Salvador Dali'nin 1951 yılında tamamladığı "Christ of Saint John of the Cross" adıyla tanınan İsa çizimi ilk kez hangi şehirde sergilenmiştir?

Answer for Current Question
Glasgow

Group Number	Bonus or Not	Group's Answer	
1	-	glascos	☐ Correct
2	-	glasscow	☐ Correct
3	Bonus	glasgow	☐ Correct
4	-	istanbul	☐ Correct
5	-	madrid	☐ Correct
6	-	london	☐ Correct
7	Bonus	ibiza	☐ Correct
8	-	glasgow	☐ Correct
9	-	glasgow	☐ Correct
12	-	puma	☐ Correct

As the questions go by, new answers submitted by contestants will appear here

Confirm and finish the show

Overall Layout of Administrator Side – Modify Questions & Groups

"Questions" become "groups" on the modify groups page

| Admin Panel | **Modify Questions** | Modify Groups | General Settings | |

Add Question   **Edit Question**   **Remove Question**

Current Questions:

Question Number	Question	Answer	Bonus or not	Type
1	Paris'te imzalanan iklim değişikliği paktı hangi kısaltma altında yapılmıştır?	COP 21	-	-
3	Hangi ünlü Amerikan outdoor firması kurucusu rafting yaparken hipotermi?	The North Face	-	-
4				
5				
6				
7				
8				
9				
10				
11	İngiltere ile Fransa arasında 1756-1763 yılları arasında gerçekleşen mücadele?	7 Yıl Savaşları	Bonus	Tarih/History
12				
13				
14				
15				
16	20.yy'da kaç kez Yaz Olimpiyatları iptal edilmiştir?	3 (1916-Berlin)	Bonus	Spor/Sports
17				
18				
19				
20				
Seyirci	Okulmuzda ilk kez hangi eğitim öğretim döneminde IB programı uygulanmaya?	2005-2006	-	-

Table width will be %100
Rows of the table will be in different color so that people can quickly read rows.

Overall Layout of Administrator Side – Modify Questions & Groups – Add / Edit / Remove Pages

| Admin Panel | Modify Questions | Modify Groups | General Settings |

Edit Question

Select a question to edit:

[1 |▼] [Selecet]

Question Number:

[|▼]

Question:

[   ]

Answer:

[   ]

☐ Bonus Question

Type:

[Normal |▼]

[Save Question]

| Admin Panel | Modify Questions | Modify Groups | General Settings |

Add Question

Question Number:

[1 |▼]

Question:

[   ]

Answer:

[   ]

☐ Bonus Question

Type:

[Normal |▼]

[Add Question]

Text-boxes will be automatically filled when the admin choose the question to edit

| Admin Panel | Modify Questions | Modify Groups | General Settings |

Remove Group

Select a question to remove:

[1 |▼] [Delete selected question]

Overall Layout of Administrator Side – Modify Groups – Reset Password

| Admin Panel | Modify Questions | Modify Groups | General Settings | |

Reset a Group's Password

Select a group to reset their password:

[Topçular Birliği ▼]   [Reset Password]

> The drop-down menu will contain names of the registered groups. Admin can use this menu to choose a group to reset its password.

> A message will appear if the operation is successful.

"Topçular Birliği"s password has been reset to "newpass".

Overall Layout of Administrator Side – Present Questions

Questions will appear here

SORU / QUESTION 1

Paris'te imzalanan iklim değişikliği paktı hangi kısaltma altında yapılmıştır?

COP 21 (UN climate "c"onference "o"f "p"arties)

Current question's number will appear here

Current question's answer will appear here after the time limit

Time will count down from the value set in the database.

29

Overall Layout of Administrator Side – Present Live Scores

Admin Panel	Start the Show	Present Live Scores	Present Questions	

Group Number	Group Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Topçular Birliği					5	5	5		5	5				5			5				35
2	4 Gün Yürüyemedi		5			5	5			5	5			5								30
3	Tosic'in Karısı			5		5	5	5			5			5			15	5				50
4	Has Kürtler Sarışın Olur	5	5	5	5	5	5	5		5	5		15		5			5				70
5	Sincap Çalan Çello																					0
6	Sinekler					5	5	5		5			15	5	5							45
7	Columva			5	5	5	5		5	5			5	5				5				45
8	Konçita		5	5	5	5	5		5	5			5		5		5					50
9	Fakirzzzzz						5															5
10	Biz bize yeteriz																					0
11	Gökdeniz-Başak-Doğa		5	5		5	5							5	5			15				45

Scores will be presented in the table as they updated.

The page will be automatically updated.

Overall Layout of Administrator Side – View Overall Scores

Admin Panel	**View Overall Scores**							
Group Number	Group Name	December	January	February	March	April	May	Total
1	Topçular Birliği							
2	4 Gün Yürüyemedi							
3	Tosic'in Karısı							
4	Has Kürtler Sarışın Olur							
5	Sincap Çalan Çello							
6	Sinekler							
7	Columva							
8	Yeşiller							

Total scores will be presented in the table as they updated.

The page will be automatically updated.

Overall Layout of Administrator Side – General Settings

Admin Panel	Modify Questions	Modify Groups	General Settings

Time limit for each question (seconds): 30 ▼ Save

Reset the system   Change Password

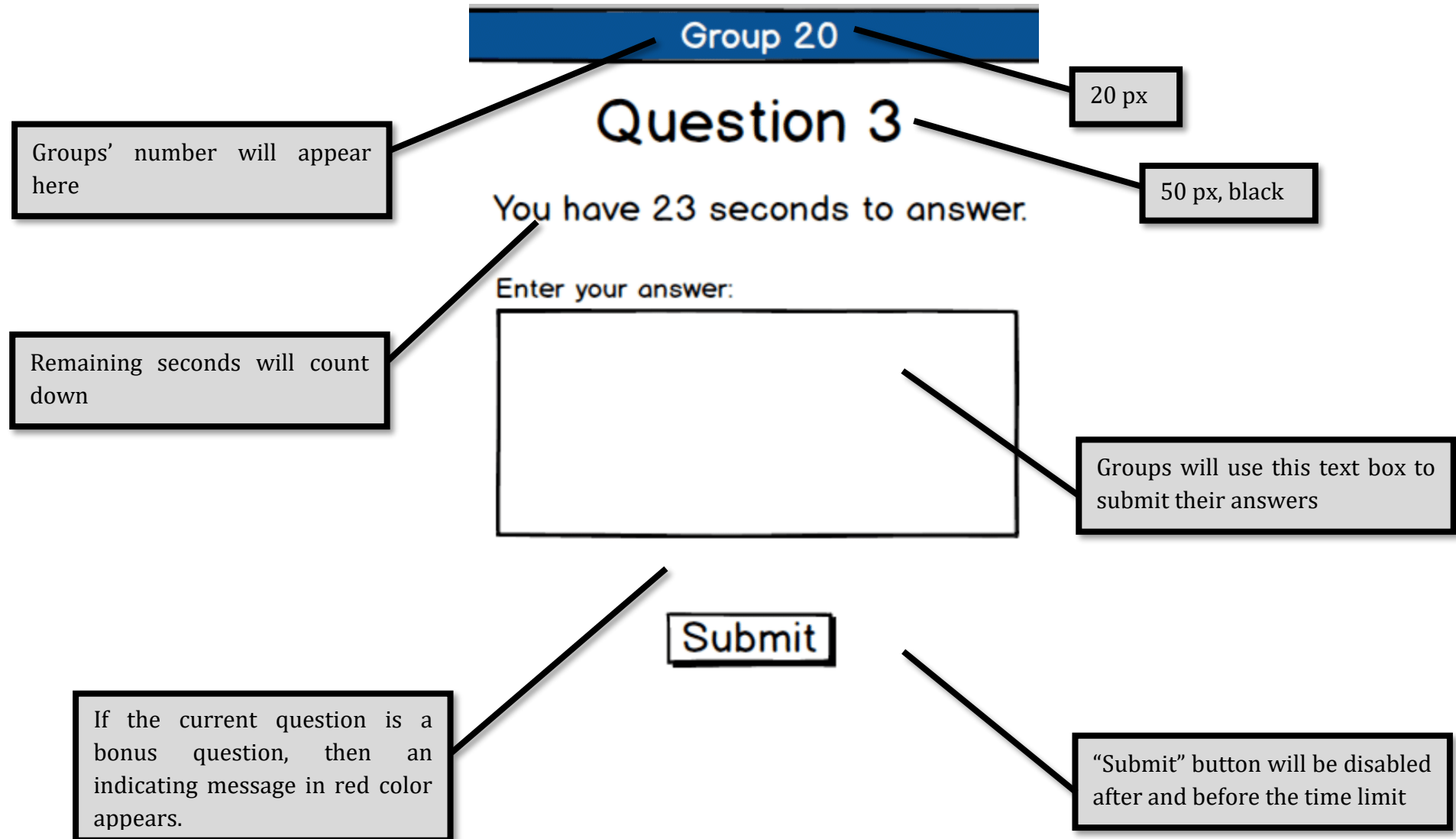Dropdown menu will automatically be updated with the information in the database

This button will reset the system to its defaults.
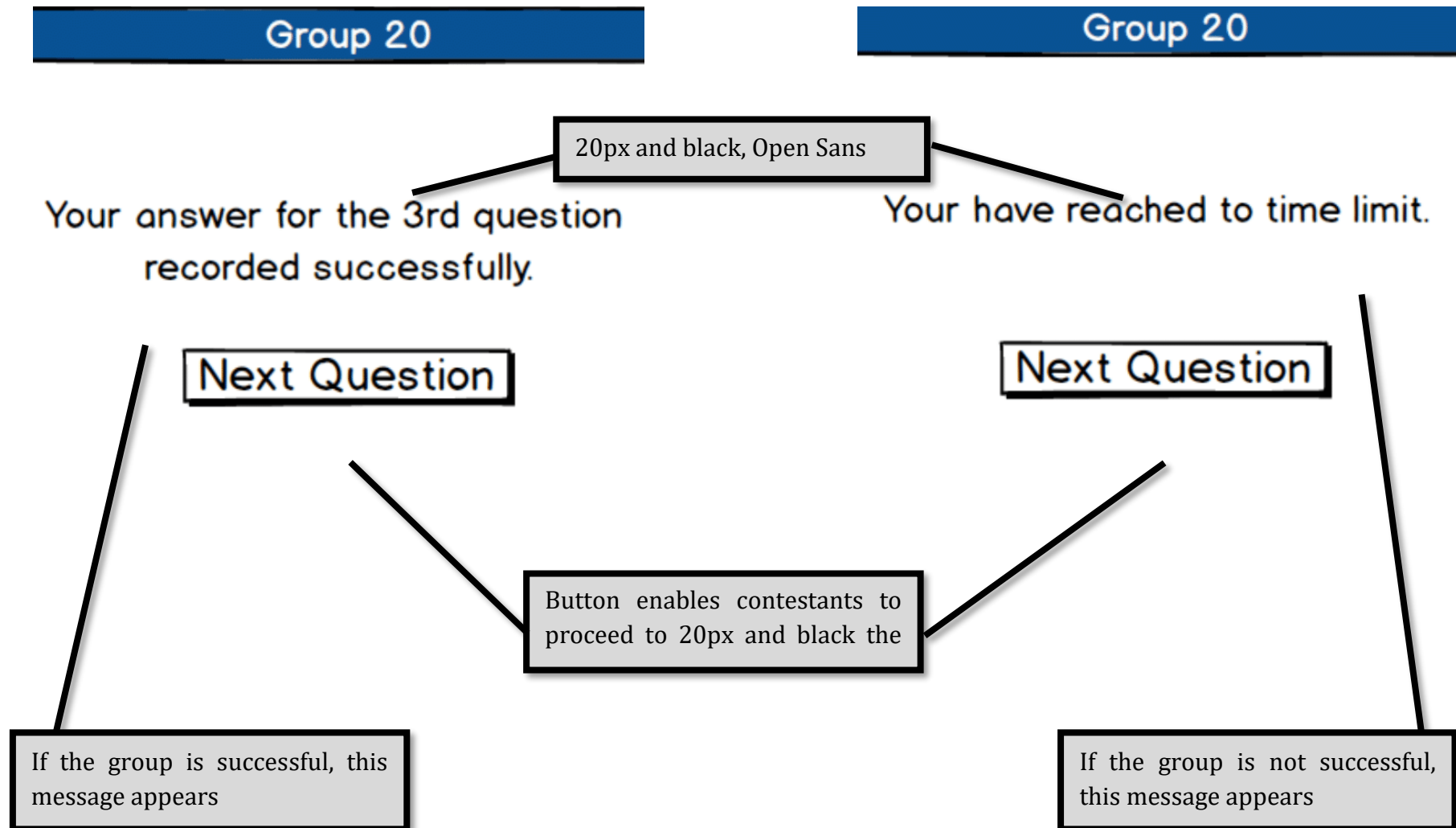
Admin can change his/her password

Admin can set time limit for individual questions

Overall Layout of Contestant Side – Answer the Question

Group 20

20 px

Question 3

50 px, black

Groups' number will appear here

You have 23 seconds to answer.

Enter your answer:

Remaining seconds will count down

Groups will use this text box to submit their answers

Submit

If the current question is a bonus question, then an indicating message in red color appears.

"Submit" button will be disabled after and before the time limit

Overall Layout of Contestant Side – Next Question

Group 20

Group 20

20px and black, Open Sans

Your answer for the 3rd question recorded successfully.

Your have reached to time limit.

Next Question

Next Question

Button enables contestants to proceed to 20px and black the

If the group is successful, this message appears

If the group is not successful, this message appears

Overall Layout of Contestant Side – Next Question - Bonus

Group 20

Next question is a bonus question.

Do you want to take it
as a bonus question?

☐ Take as a bonus question

Next Question

If the group has already taken their bonus question, an indicating message in red color will appear here and check box will be disabled.
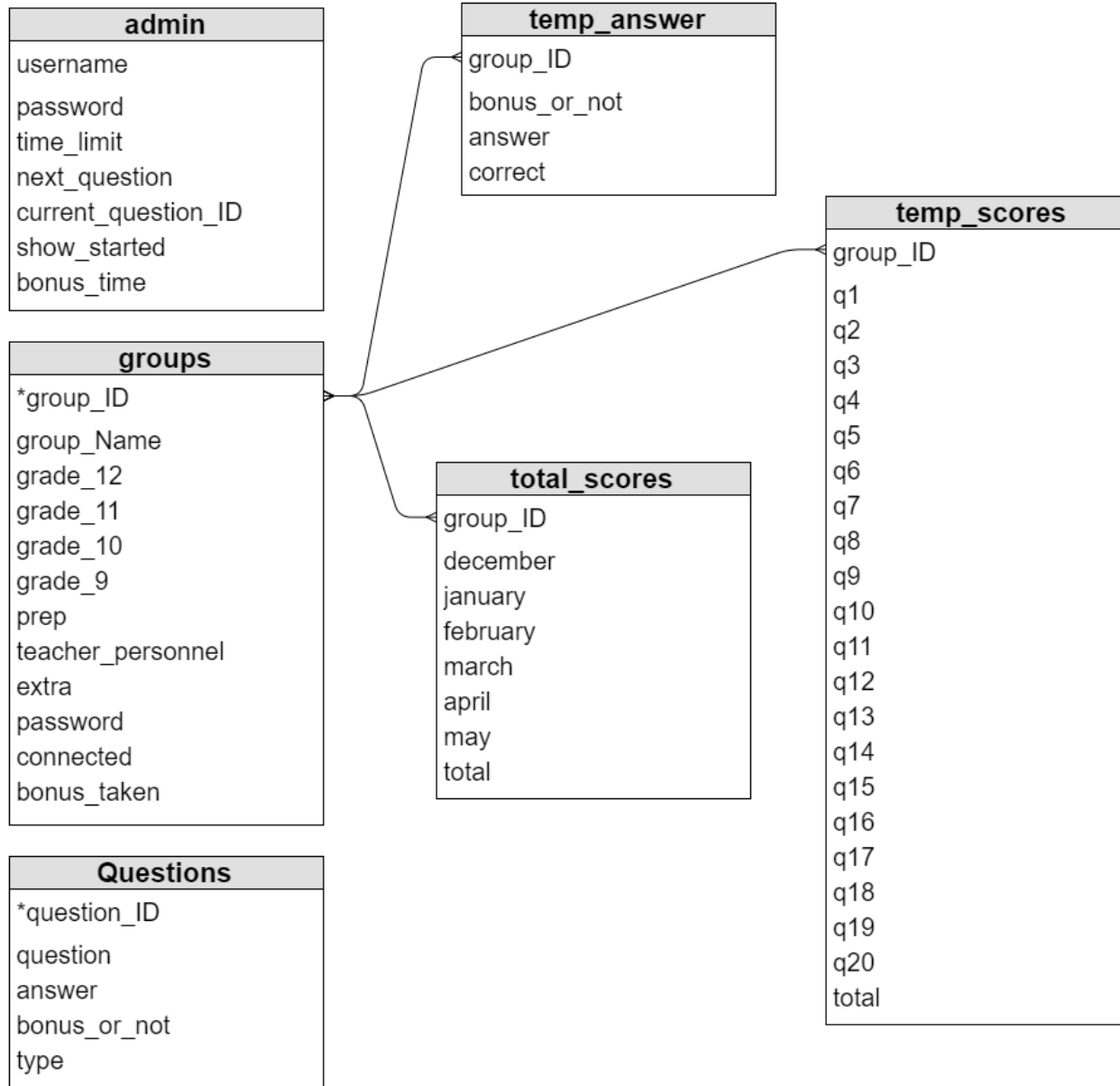
Overall Layout of Contestant Side – Your Scores

Ranking ⬍	Score ⬍	Group Number ⬍	Group Name ⬍
1	76	2	Topçular Birliği
4	75	8	Gün Yürüyemedi
2	74	3	Tosic'in Karısı
3	50	7	Has Kürtler Sarışın Olur
4	45	8	Sincap Çalan Çello
5	45	1	Sinekler
6	40	9	Columva
7	40	10	Konçita
8	30	12	Fakirzzzzz
9	30	11	Biz bize yeteriz
10	25	4	Gökdeniz-Başak-Doğa
11	20	5	Çam Ağacı
12	15	6	KKK

Ranking

Groups can view their total score in a table.

The row the group which is currently signed will be highlighted in green color to make it easier for users to find their groups.

The page will be automatically updated.

Overall structure of Database

admin

username

password
time_limit
next_question
current_question_ID
show_started
bonus_time

groups

*group_ID

group_Name
grade_12
grade_11
grade_10
grade_9
prep
teacher_personnel
extra
password
connected
bonus_taken

Questions

*question_ID

question
answer
bonus_or_not
type

temp_answer

group_ID

bonus_or_not
answer
correct

total_scores

group_ID

december
january
february
march
april
may
total

temp_scores

group_ID

q1
q2
q3
q4
q5
q6
q7
q8
q9
q10
q11
q12
q13
q14
q15
q16
q17
q18
q19
q20
total

Internal structure

List of resources and techniques

Resources	Details
Samet Teke(Client)	List of the groups and questions are provided by Samet Teke, the client.
www.w3schools.com	It is used to get some help about the coding when needed
stackoverflow.com	It is used to get some help about the coding when needed
WAMP	It is a Windows web development environment which is used to test the functionality of the website
Adobe Edge Reflow CC 0.51	It is used to get some help with creating the user interface of the website
www.flatuicolorpicker.com	It is used to choose right colors for the website
Balsamiq Mockups 3.0.1	It is used to create the design of the layout of the website
Youtube Tutorial Videos	It is used to get some help about the coding when needed
http://jquery.com	Resource for jQuery Library that will be used to add functionality to the requests page
www.tutorialspoint.com/ajax/	It is used to get some help about AJAX when needed
FileZilla FTP Client (Version 3.5.3)	It is used to upload website files to the web server

Techniques	Details
Creating a consistent user interface with using CSS, HTML, and Adobe Edge Reflow CC	Initial structure is created using Adobe Edge Reflow CC. Later, adjustments are made with using HTML and CSS.
Using JQuery to make website more interactive and useful	JQuery is used to make the website more interactive and helpful.
Using SQL commands to retrieve and inject data into the database	The website makes lots of interactions with the database to show data to users. So SQL commands are used to make these interactions.
Using PHP to manipulate retrieved data from the database	The data retrieved with SQL commands should be manipulated before showing to users because users cannot do anything with raw data. So, PHP is used to manipulate raw data.
Password md5 hashing	All passwords are stored after being hashed with md5. This gives extra security to the website.
Using Cascading style sheets (CSS) for appropriate design	CSS will be used to keep a constant website layout for the entire internet site. It will manage the shapes, sizes, and colors of the elements in the web pages.
Arrays	Arrays will be used to store and manipulate a large amount of fragmented data for the entire system.
Loops, if-then, exit conditions	These functions will be used during the automation processes and logical comparisons for the entire system.
Data Validation	Data types for the database will be identified to prevent wrong types of data from entering to the

	system.
Migrating the product to the server from development computer using FileZilla FTP program	After the development of the website, it will be migrated to a remote web server for easy access by using FileZilla FTP program.

Test plan

Test item	Test data	Part of system tested	Expected outcome	Actual outcome	Comments	Ref in product
Cover page testing – REQUIRED ELEMENT FOR CRITERION G						
Web pages load from the cover page in three different locations	**File naming to ensure home page is called Index.htm**	**Links on cover page are relative**	**Loads as required from 3 different locations**	**The expected outcome is reached.**		Cover Page
Product testing						
Testing on different browsers	Using different browsers such as Safari, Chrome, Mozilla Firefox, Internet Explorer, and Opera	Compatibility	System works fluently and without any problems	The expected outcome is reached.		Whole system
Testing on different devices	Using different mobile devices such as Android tablets, iPads, Android Phones,	Compatibility	System works fluently and without any problems	The expected outcome is reached.		Group Side of the system

	iPhones, and Windows Phones					
Testing on different screen sizes	Using different devices with different screen sizes such as tablets, mobile phones, and laptops	Compatibility	User interface stayed same and expected on various screen sizes	The expected outcome is reached.		Group Side of the system
Admin Panel - Sign In Page						
Sign In	Signing in to gain ability to control the system	Session and User Handling	Admin stuff can sign in to the system	The expected outcome is reached.		Login
Incorrect Password	Showing a warning about the wrong password	Session and User Handling	System show a sign that says "You have entered the wrong password or wrong username!"	The expected outcome is reached.		Login
Database Connection	Writing data into the database or retrieving data from the database using the user interface	Database input/output	Users can successfully write data into the database or can retrieve data from the database	The expected outcome is reached.		Whole system
Admin Panel - ..... Pages (Start the Show, Modify Questions, Present Live Scores, View Overall Scores)						

Database Connection	Writing data into the database or retrieving data from the database using the user interface	Database input/output	Users can successfully write data into the database or can retrieve data from the database	The expected outcome is reached.		Whole system
Navigation bar	Navigation bar includes different related pages	Session and User Handling	Admin stuff can easily navigate through the website	The expected outcome is reached.		Home Page
Number of connected groups	System counts the number of connected groups	Manipulation of raw data	System successfully counts the number of connected groups	The expected outcome is reached.		Home Page
Connected groups	Connecting to the system with many groups	Manipulation of raw data	System successfully shows all connected groups	The expected outcome is reached.		Home Page
Answers of the groups	Collecting answers from the groups in a table	Manipulation of raw data	System successfully shows all answers in a table	The expected outcome is reached.		Start the Show
Answer check	Creating a table with the answers of the groups and putting checkboxes for each answer	User input/output	Admin stuff can easily check the answers of the groups if they are correct or not	The expected outcome is reached.		Start the Show

Finalizing the show	System resets the temporary tables and renews itself for a new show	User input/output	Admin stuff can successfully finalize the show	The expected outcome is reached.		Start the Show
Presenting live scores	System calculates and shows the scores for every group in a single table	Manipulation of raw data	Live scores can be presented to the groups on a separate page	The expected outcome is reached.		Present Live Scores
Presenting questions	The system retrieves questions from the database and forms them. It also keeps the timing.	Manipulation of raw data	Questions can be presented to the groups on a separate page and timing works	The expected outcome is reached.		Present Questions
Viewing overall scores of the groups	System calculates and shows the overall scores for every group in a single table	Manipulation of raw data	Overall scores can be viewed on a separate page	The expected outcome is reached.		View Overall Scores
Admin Panel - Configuration Pages (Modify Questions, Modify Groups, General Settings)						
Database Connection	Writing data into the database or retrieving data from the database using the user interface	Database input/output	Users can successfully write data into the database or can retrieve data from the database	The expected outcome is reached.		Whole System
Viewing all questions in a table	System retrieves questions and answers from the database and shows	Manipulation of raw data	All questions can be viewed in a single table with their answers	The expected outcome is reached.		Modify Questions

	them in a single table					
Adding new questions	System adds new questions to the database	User input/output	Admin stuff can easily add new questions through the user interface	The expected outcome is reached.		Modify Questions
Editing current questions	System edits current questions	User input/output	Admin stuff can easily edit questions through the user interface	The expected outcome is reached.		Modify Questions
Removing questions	System removes current questions from the database	User input/output	Admin stuff can easily remove questions through the user interface	The expected outcome is reached.		Modify Questions
Viewing all groups in a table	System retrieves groups and their members from the database and shows them in a single table	Manipulation of raw data	All groups can be viewed in a single table with their members	The expected outcome is reached.		Modify Groups
Adding new groups	System adds new groups to the database	User input/output	Admin stuff can easily add groups through the user interface	The expected outcome is reached.		Modify Groups
Edit current groups	System edits current groups	User input/output	Admin stuff can easily edit groups through the user interface	The expected outcome is reached.		Modify Groups

Removing groups	System removes current groups from the database	User input/output	Admin stuff can easily remove groups through the user interface	The expected outcome is reached.		Modify Groups
Resetting group's password	System resets a group's password to its default value	User input/output	Admin stuff can easily reset a group's password through the user interface	The expected outcome is reached.		Modify Groups
Changing the time limit for each question	System changes time limit for each question	User input/output	Admin stuff can easily change the time limit for each question through the user interface	The expected outcome is reached.	All questions have same time limit, and that time limit can be changed easily	General Settings
Resetting the system	System resets itself to its default values	User input/output	Admin stuff can easily reset the system through the user interface	The expected outcome is reached.		General Settings
Password change	System resets the password when needed	Session and User Handling	Admin stuff can easily reset the admin password through the user interface	The expected outcome is reached.		General Settings
User Pages - Sign In Page						
Groups can sign in to the system	Signing in to gain ability to answer the questions	Session and User Handling	Groups can sign in to the system	The expected outcome is		Login

				reached.		
Incorrect Password	Showing a warning about the wrong password	Session and User Handling	System show a warning that says "You have entered the wrong password or wrong username!"	The expected outcome is reached.		Login
Database Connection	Writing data into the database or retrieving data from the database using the user interface	Database input/output	Users can successfully write data into the database or can retrieve data from the database	The expected outcome is reached.		Whole System
User Pages - Password Protected Pages (Answer the Question, Score, Change Password)						
Database Connection	Writing data into the database or retrieving data from the database using the user interface	Database input/output	Users can successfully write data into the database or can retrieve data from the database	The expected outcome is reached.		Whole System
Answering questions	System retrieves the answers from groups and writes them into the database	User input/output	Users can easily answer the questions	The expected outcome is reached.		Questions
Viewing rankings and scores in a table	System calculates, sorts and shows the scores for every group	Manipulation of raw data	Groups can view rankings in a separate page	The expected outcome is		View Rankings

	in a single table			reached.		
Password Change	System resets the password when needed	Session and User Handling	Groups can easily reset the admin password through the user interface	The expected outcome is reached.		Change Password
Sign Out Page						
Session Destroys	System destroys the session to give extra security	Session and User Handling	Users and admin stuff can use sign in buttons	The expected outcome is reached.		Whole System

Agreement of client

I confirm that the requirement specification meets my needs and the designs above are appropriate for the creation of the product.

Client: Samet Teke