

Report on the project  
**“Development of web applications for business”**

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## **Introduction**

The theme of the website is “EVENT DIGEST IN YOUR CITY”. The main purpose is to present the key news and events at the users` cities. There is a special program, which allows earning points and buying products at the online shop. In addition, there are the opportunities to choose the category and dates to see the events. Moreover, it is possible to sign in or sign up.

## **Main part**

### **1. Description of the project**

The project has been done via C# at Visual Studio using ASP.Net.

There are seven pages:

1. “Homepage”
2. “About”
3. “Shop”
4. “Calendar”
5. Sign page
6. Log in page
7. Form of request (“Questions & Feedback”)

This website is connected with database. Database consists of 4 tables:

1. Information about events – used at “Calendar”
2. Information about users – used at Sign page and Log in page
3. Information about requests, feedback and users` emails – used at Form of request
4. Information about shop items – used at “Shop”

### **2. Front-End of the web application**

*The structure of the website:*

All webpages include the upper menu to switch pages, except Sign and Login pages. The main headline is “EVENT DIGEST IN YOUR CITY”. Button “Sign out” is used to clear the name of the user on pages.

- “Homepage”:

Main headline: EVENT DIGEST IN YOUR CITY

Headline: News

Content: picture and text information. As many times as needed.

There is some information about the events or the news, which happened or will happen at the certain city.

- “About”:

Main headline: ABOUT

Headlines: What, How, Points, Contact us:

Content: text information about the program.

There is some information about the program, which fans may join.

- “Shop”:

Main headline: EVENT DIGEST IN YOUR CITY

Headline: Shop

Content: picture of the item, label, text information about price, checkbox for taking the items at the user basket. As many times as needed. Button of the user basket and “Clear”.

There is the online shop, where users may choose any items and save them at their basket. To see the items at the basket they should push the button “Basket”, to clear chosen items and to begin shopping the button “Clear” must be pushed.

- “Calendar”:

Main headline: EVENT DIGEST IN YOUR CITY

Headline: Soon

Content: picture of the event, name, text information about date. As many times as needed.

The area for filters: category and month choice, buttons to show and reset.

There are future events. Users may choose the category / months. To change something on the webpages or return to the default information there are buttons “Show” and “Reset”.

The user may choose the category from the list and push the wanted month / months. The button “Show” allows to see the events, due to categories and months.

To reset the choice the user should push the button “Reset”.

- Sign page:

Main headline: Sign

Headlines: Name, Last Name, Gender, Date of birth, Login, Password, Password confirmation.

Content: textlines for entering text, the datebutton for entering the Date of birth, buttons “Sign up”, “Sign in”, “Cancel”.

After filling the information, the button “Sign up” should be pressed.

If the user has an account the button “Sign in” can be used. The user will be redirected to the Log in page.

To return to the Home page the button “Home” should be pushed.

If the user doesn’t have the account, he or she needs to fill information about him or her. After that the user should push the button “Sign up”. Alert message with the greeting appears. Then the user may log in.

- Log in page:

Main headline: Sign

Headlines: Login and Password.

Content: textlines for entering text, buttons “OK”, “Home”.

If the user has the account, he or she needs to push the button “Sign in” in the Sign page and on the new page fill login and password and press the button “Ok”.

To leave the Log in page, the user should push the button “Home”. After that the Home page appears. And the Login appears under the button “Sign out”, if it was filled.

- Form of request (“Questions & Feedback”):

Main headline: Ask question or give feedback!

Content: textlines for entering text, buttons “File” to select file, “Send” to submit.

To submit the request the user must write text at the textbox and email (validators check the correctness), but the file is not required. If the attempt was successful, the sentence “Request sent” appears. The files will be uploaded to the special folder. The path will be written to the database.

### 3. Back-End of the web application

- “Homepage”, “About”:

It is possible to switch pages using upper menu. Moreover, after log in there is an opportunity to see the username. The name is stored in session. To log out it is necessary to push the button Sign out.

- “Shop”:

This page is connected with table of shop items. When the page is downloaded products and price information from the table appear automatically. The data cannot be changed from the page. Also each item has a checkbox. When the user selects items, ID of checkboxes are being saved. To show only chosen items user clicks on the button “Basket” – “div” is being cleared and user`s choice appears. Button “Clear” reboots the page to initial state.

- “Calendar”:

Initially the page is empty. User choses the category and month(s). To show the result button “Show” must be pressed. To cancel everything the button “Reset” must be used. This page is connected with the table of calendar events. The data cannot be altered from the page.

- Sign page:

The user needs to fill Sign page and press “Sign up” if he or she doesn’t have an account. Login and password are saved to the table of users` information.

- Log in page:

If the user has the account, he or she fills login and password and press the button “Ok”. The credentials are compared with the data at the table of users`

information. If the same login and password are found, verification is passed. In the contrary, the warning appears.

To leave the Log in page, the user should push the button “Home”. After that the Home page appears. And the Login appears under the button “Sign out”, if it was filled.

- Form of request (“Questions & Feedback”):

To submit the request the user must write text at the textbox and email (validators check the correctness), but the file is not required. If the attempt was successful, the sentence “Request sent” appears. This page is connected with the table of information about the request. Initially the table is empty. User`s email and message will be stored at the table after filling the fields. The files will be uploaded to the special folder. The path will be written to the database automatically plus file name.

### **Conclusion**

During this project the development of the website has been considered. Database has been added.

The result of the project is the website, which reflects the event digest in certain city. Users may join the program and earn points. Webpages have been presented. Users may control the actions at the “Shop” and “Calendar” webpages. The content of the pages is changed because of users` modifications. The sign page allows to write the information about users or to log in. Database stores data, which may be used at the pages to show the content, verify users` credentials and so on.

## Task for the project

### 1. Theme of the project

Development of web application for business

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### 2. The content of the project, including the composition of graphic works and calculations

#### Introduction

Developing a web application based on technology Asp.Net:

1) Front-End of the web application .

2) Back-End of the web application.

#### Conclusion

### 3. Additional information

The topic of the project is chosen by the students themselves.

The project is performed by the student alone. Working in groups is not allowed.

#### **General requirements for the web application:**

1. Development environment - MS Visual Studio 2010 and higher, server programming language - C #.
  2. Number of pages in the application - at least 5.
  3. Application pages must be responsive (using bootstrap library or CSS media queries to get responsive layout).
  4. The presence of a single SQLServer database.
  5. Availability of pages for processing requests for adding, changing and deleting data (own data entry forms should be used, not built-in controls).
  6. Dynamic data output from the database to one of the pages of the application.
  7. Layout pages: block. The Flexbox can be used.
  8. Using Master Page technology.
  9. Presence of a feedback page (sending an e-mail message from the site).
  10. Presence of the main menu for navigating the application.
  11. Using of Ajax technology on any of the pages (using the Update Panel control to asynchronously update any part or element of the page).
  12. Using Asp.Net Forms Authentication.
  13. Presence of animation on the main page (using jQuery, jQuery UI, CSS 3.0 or animate.css).
  14. Presence of various content according to the chosen topic: images, videos, text.
  15. Presence of order forms or information request in accordance with the theme of the application.
  16. All links and buttons on the pages should be working.
- All program code must be provided in the appropriate part of the report.
- The report must be made in accordance with the requirements of the "Regulations on final qualifying work (master's level) in the areas of training".