ГУАП

КАФЕДРА № 43

ОТЧЕТ
ЗАЩИЩЕН С ОЦЕНКОЙ
ПРЕПОДАВАТЕЛЬ

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ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ №7
Асинхронное клиент-серверное взаимодействие с использованием Ajax и JSON

по дисциплине: Web-Технологии

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Цель работы: изучение и применение на практике технологии AJAX.

Базовое задание

Разработать AJAX-приложение для доступа к базе данных, подготовленной в предыдущей лабораторной работе. Вариант задания и тип запроса указаны в таблице 1. Формулировку варианта адаптировать под свою базу данных. В сценарии javascript запрещается использование библиотек. Новая страница должна быть встроена в сайт, подготовленный в предыдущих разделах.

Расширенное задание

1.. использовать json +
2.. проверить работу в разных браузерах. В сценарии на javascript добавить вывод на страницу названия объекта, выполняющего асинхронный обмен, и название браузера. В отчете привести доказательства этой работы. +
3.. использовать библиотеку jQuery и добавить еще один вариант применения AJAX

Скриншоты страниц сайта и таблиц базы данных.

Листинг

routes.1.js

```
// получение всех файлов от сервера в текущей директории
var read_files_bool = false;
function get_files(onload_function=undefined) {
 selected_file_name = "";
 if (!read_files_bool) {
  read_files_bool = true;
  undo_files_checkBox();

  if (!checkModal('copy_or_paste_block')) {
   close_selected_files_div();
  }

  if (checkModal('file_list_block')) {
   closeModal('rightBar');
   closeModal('file_list_block');
  }

  var ul = document.getElementById("file_list");
  ul.innerHTML = '';

  // создаём запрос
  var xhr = new XMLHttpRequest();
  xhr.open('POST', `/files?path=${path}&dir=${dir_str}`);
  xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
```

```javascript
  // когда запрос выполнится, то вызовется эта функция
  xhr.onload = function () {
   read_files_bool = false;
   // проверяем код
   if (xhr.status === 200) {
    // проверяем, не пустая ли директория
    if (xhr.responseText.toString() === 'EMPTY') {
     files_json['files'] = [];
     append_back_dir();
     // если файлов нет, то выводим такое сообщение
     var li = document.createElement("li");
     li.innerHTML = `
       <h1 align="center">EMPTY</h1>
       `;

     // добавляем его в список
     ul.appendChild(li);

    // проверяем, есть такая директория или нет
    } else if (xhr.responseText.toString() === 'ERROR DIR') {
     files_json['files'] = [];
     // если файлов нет, то выводим такое сообщение
     var li = document.createElement("li");
     li.innerHTML = `
       <h1 align="center">NO SUCH PATH EXISTS</h1>
       `;

     // добавляем его в список
     ul.appendChild(li);

    } else {
     append_back_dir();

     // получаем json
     files_json = JSON.parse(xhr.responseText.toString());

     // сортировка файлов по типу
     files_json['files'] = sort_files(files_json['files'], sort_type, sort_order);

     audio_list = [];
     image_list = [];

     // добавляем файлы в список
     for (let i = 0; i < files_json['files'].length; i++) {
      file = files_json['files'][i]
      if (file['type'] == 'dir') {
       append_file(file['type'], file['name']);
      } else {
       append_file(file['type'], file['name'], file['size'], dir_str + '/' + file['name'], file['time'],
file['type_mime']);
      }
```

```javascript
        }
        if (draw_type == 'list')
          append_path_info(files_json['files'].length);
        if (onload_function != undefined) {
          onload_function();
        }
      }

    }
  };

  // отправляем запрос
  xhr.send();
  } else {

  }

}

// удаление файла
function delete_file(path, dir_str, name) {
  var xhr = new XMLHttpRequest();
  xhr.open('POST', `/delete?path=${path}&dir=${dir_str}&file=${name}`);
  xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
  xhr.onload = function () {
    if (xhr.status === 200) {
      close_delete_file_dialog();
      if (xhr.responseText.toString() === 'READ ONLY') {
        readonly_dialog();
      } else {
        close_rightBar();
        update_dir();
      }

    }
  };
  xhr.send();
}

// удаление выделенных файлов
function delete_files() {
  var xhr = new XMLHttpRequest();
  xhr.open('POST', `/delete?path=${path}&dir=${dir_str}&files=${JSON.stringify({"files":
list_checked_file})}`);
  xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
  xhr.onload = function () {
    if (xhr.status === 200) {
      close_delete_file_dialog();
      update_dir();
      undo_files_checkBox();
      close_rightBar();
    }
```

```javascript
  };
  xhr.send();
}

// переименование файла
function rename_file() {
  var new_file_name = document.getElementById("fileName_input").value;

  if (selected_file_name != new_file_name) {
    var xhr = new XMLHttpRequest();
    xhr.open('POST', `/rename?path=${path}&dir=${selected_file_dir}&file=$
{selected_file_name}&new_file=${new_file_name}`);
    xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
    xhr.onload = function () {
      if (xhr.status === 200) {
        if (xhr.responseText.toString() === 'ALREADY EXISTS') {
          document.getElementById(`fileName_input`).classList.replace('app_input_ok',
'app_input_error');
        } else {
          selected_file_name = new_file_name;
          document.getElementById(`fileName_input`).classList.replace('app_input_error',
'app_input_ok');
          update_dir(function(){open_fileInfo_by_name(new_file_name)});
        }
      }
    };
    xhr.send();
  }

}


// создание файла или директории
function create_file(folder=false) {
  var xhr = new XMLHttpRequest();

  file_name = document.getElementById("create_fileName_input");

  if (folder) {
    xhr.open('POST', `/create_folder?path=${path}&dir=${dir_str}&folder_name=$
{file_name.value}`);

  } else {
    xhr.open('POST', `/create_file?path=${path}&dir=${dir_str}&file=${file_name.value}`);
  }

  xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
  xhr.onload = function () {
    if (xhr.status === 200) {
      var close_dialog = true;
      if (xhr.responseText.toString() === 'NO PLACE') {
        no_place_dialog();
```

```javascript
      } else if (xhr.responseText.toString() === 'READ ONLY') {
        readonly_dialog();
      } else if (xhr.responseText.toString() === 'ERROR NAME') {
        document.getElementById(`create_fileName_input`).classList.replace('app_input_ok',
'app_input_error');
        close_dialog = false;
      } else if (xhr.responseText.toString() === 'ALREADY EXISTS') {
        document.getElementById(`create_fileName_input`).classList.replace('app_input_ok',
'app_input_error');
        close_dialog = false;
      } else update_dir();

      if (close_dialog) {
        close_create_file_dialog();
        file_name.value = '';
      }

    }
  };
  xhr.send();
}

//
function create_file_enter(e) {
  if (e.keyCode == 13) {
    (document.getElementById("create_file_button").onclick)()
    return false;
  }
}

/*-----------------------------активности----------------------------*/

// распаковка
function activity_unpack_file() {

  var xhr = new XMLHttpRequest();
  xhr.open('POST', `/unpack?path=${path}&dir=${selected_file_dir}&file=$
{selected_file_name}&new_file=${selected_file_name}`);
  xhr.setRequestHeader('Content-Type', 'application/x-www-form-urlencoded');
  xhr.onload = function () {
    if (xhr.status === 200) {
      if (xhr.responseText.toString() === 'NO PLACE') {
        no_place_dialog();
      } else if (xhr.responseText.toString() === 'READ ONLY') {
        readonly_dialog();
      } else update_dir();

    }
  };

  xhr.send();
```

```
}

// получаем файлы
update_dir();
```

Main.py
```python
@app.route("/files", methods=['GET' , 'POST'])
@login_required
def files():
    try:
        path = request.args.get("path", "")
        dir = request.args.get("dir", "")

        if (not '..' in dir):
            user_path = userBase.get_user_info(current_user.id)['path'][int(path)]['path']

            files = os.listdir(user_path + dir)

            if len(files) > 0:
                files_list = []
                for i in range(len(files)):
                    try:
                        file = files[i]

                        files_list.append(
                            {
                                'name': file
                            }
                        )

                        if len(dir) > 0:
                            file_path = user_path + dir + '/' + file

                        else:
                            file_path = user_path + file

                        if os.path.isdir(file_path):
                            files_list[i]['type'] = 'dir'

                        else:
                            mime = magic.from_buffer(open(file_path, "rb").read(2048), mime=True)

                            if mime.split('/')[1] in ['zip', 'x-rar']:
                                files_list[i]['type'] = 'archive'

                            elif mime.split('/')[1] in ['pdf']:
                                files_list[i]['type'] = 'pdf'

                            elif mime.split('/')[0] in ['text']:
                                files_list[i]['type'] = 'text file'

                            elif mime.split('/')[0] in ['image']:
```

```python
                    files_list[i]['type'] = 'image'

                elif mime.split('/')[0] in ['video']:
                    files_list[i]['type'] = 'video'

                elif mime.split('/')[0] in ['audio']:
                    files_list[i]['type'] = 'audio'

                else:
                    files_list[i]['type'] = 'file'

                files_list[i]['type_mime'] = mime
                files_list[i]['size'] = convert_size(
                    os.path.getsize(
                        user_path + dir + '/' + file
                    )
                )
                change_time = os.path.getmtime(file_path)
                files_list[i]['time'] =
datetime.datetime.fromtimestamp(change_time).strftime('%H:%M:%S %d-%m-%Y')

            except Exception as e:
                print(e)

        return {'files': files_list}

    else:
        return EMPTY

else:
    return ERROR_DIR

except:
    return ERROR_DIR
```

Main.html

```html
<html id="html">
  <head>
    <meta charset="utf-8">
    <title>[ DISK ]</title>
    <link rel="icon" href="/static/img/favicon/main.svg" type="image/svg+xml">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href = "static/css/main.1.css"/>

    <link rel="stylesheet" href = "static/css/topBar.1.css"/>
    <link rel="stylesheet" href = "static/css/leftBar.1.css"/>
    <link rel="stylesheet" href = "static/css/rightBar.1.css"/>
    <link rel="stylesheet" href = "static/css/path_select.1.css"/>
    <link rel="stylesheet" href = "static/css/apps.1.css"/>

    <link rel="stylesheet" href = "static/css/file.1.css"/>
```

```html
        <link rel="stylesheet" href = "static/css/checkBox.1.css"/>
        <link rel="stylesheet" href = "static/css/range.1.css"/>
        <link rel="stylesheet" href = "static/css/dialog.1.css"/>

    </head>

    <body class="scroll_style" ondragstart="return false;" ondrop="return false;">

        <div id="file_list_div" class="file_list">
            <ul id="file_list" style="overflow-x:hidden;"></ul>
        </div>

        <div id="selected_files_div" class="selected_files_div" style="display: none">
            <!--информация о выбранных файлах и каталогах-->
            <div id="file_list_block" style="display: none">
                <div id="file_select_all_button" class="file_activity_button block_select button_margin"
onclick="all_files_checkBox()">
                    <div style="position: absolute; margin: 4px 8px">
                        <input type="checkbox" class="custom-checkbox checkBox_file"
id="checkbox_select_all" name="checkbox_select_all">
                        <label for="checkbox_select_all"></label>
                    </div>
                </div>

            <!--количество выбранных файлов-->
            <div class="file_list_info_div">
                <p id="file_list_files_folders" style="position: absolute; left: 40px; top: -3px;">Selected:
0</p>
            </div>

            <!--кнопка для закрытия-->
            <div id="file_list_delete_button" class="round_button_file_list file_list_close_button
block_select button_margin" onclick="undo_files_checkBox(); close_selected_files_div();">
                <img class="icon" width="30" height="30" src="static/img/cross.svg">
            </div>

            <!--кнопка для скачивания выбранных файлов-->
            <a id="file_list_download_button" href="" download="test">
                <div class="round_button_file_list file_list_download_button block_select
button_margin">
                    <img class="icon" width="20" height="20" src="static/img/download.svg">
                </div>
            </a>

            <!--кнопка для удаления выбранных файлов-->
            <div id="file_list_delete_button" class="round_button_file_list file_list_delete_button
block_select button_margin" onclick="delete_file_dialog()">
                <img class="icon" width="20" height="20" src="static/img/trash.svg">
            </div>

            <!--кнопка для копирования выбранных файлов-->
```

```html
        <div id="file_list_copy_button" class="round_button_file_list file_list_copy_button
block_select button_margin" onclick="copy_file_buf()">
          <img class="icon" width="20" height="20" src="static/img/copy.svg">
        </div>


        <!--кнопка для копирования выбранных файлов-->
        <div id="file_list_cut_button" class="round_button_file_list file_list_cut_button
block_select button_margin" onclick="copy_file_buf(true)">
          <img class="icon" width="20" height="20" src="static/img/cut.svg">
        </div>

      </div>


      <!--панель с информацией и кнопками для вставки файлов-->
      <div id="copy_or_paste_block" style="display: none">

        <!--количество выбранных файлов-->
        <div class="file_list_info_div">
          <p id="cop_file_list_files_folders" style="position: absolute; left: 5px; top: -
3px;">Selected: 0</p>
        </div>


        <!--кнопка для закрытия-->
        <div id="file_list_delete_button" class="file_list_close_button block_select button_margin"
onclick="undo_files_checkBox(); close_selected_files_div();">
          <img class="icon" width="30" height="30" src="static/img/cross.svg">
        </div>


        <!--кнопка для вставки выбранных файлов-->
        <div id="file_list_paste_button" class="file_list_paste_button block_select button_margin"
onclick="paste_files()">
          <img class="icon" width="20" height="20" src="static/img/copy.svg">
          <p>paste</p>
        </div>
      </div>
    </div>

    <div class="leftBar">

      <!---->
      <div style="position: absolute; left: 20px; top: 55px">
        <input type="checkbox" class="custom-checkbox" id="checkbox_draw_type_list"
name="checkbox_draw_type_list" value="yes" onchange="switch_draw_type('list', this)"
checked>
        <label for="checkbox_draw_type_list">
          <img class="icon" width="30" height="30" src="static/img/file list.svg">
        </label>
      </div>

      <div style="position: absolute; left: 90px; top: 55px">
        <input type="checkbox" class="custom-checkbox" id="checkbox_draw_type_grid"
name="checkbox_draw_type_grid" value="yes" onchange="switch_draw_type('grid', this)">
```

```html
    <label for="checkbox_draw_type_grid">
      <img class="icon" width="30" height="30" src="static/img/file table.svg">
    </label>
  </div>

  <div class="small_button_style block_select button_margin" style="top: 95px; width: 180px;
left: 10px;" onclick="create_file_dialog(true)">
    <img class="icon" width="20" height="20" src="static/img/new folder.svg">
    <p>create folder</p>
  </div>

  <div class="small_button_style block_select button_margin" style="top: 138px; width:
180px; left: 10px;" onclick="create_file_dialog()">
    <img class="icon" width="20" height="20" src="static/img/files/file.svg">
    <p>create file</p>
  </div>

  <label for="fileElem">
    <div class="small_button_style block_select button_margin" style="top: 190px; width:
180px; left: 10px;">
      <img class="icon" width="20" height="20" src="static/img/upload.svg">
      <p>upload file</p>
    </div>
  </label>

  <!--терминал-->
  <div id="apps_list_main" style="display: none">
    <div class="apps_button_style block_select">
      <img class="icon" style="margin: 6px 6px" width="30" height="30"
src="static/img/apps.svg">
      <p style="margin: -40px 44px">apps</p>
      <p id="apps_count" style="margin: 36px 44px;" class="apps_button_style_online">0
elements</p>
      <img class="icon" style="position:absolute; right: 40px; top: 15px; cursor: pointer"
width="15" height="15" src="static/img/admin/refresh.svg" onclick="get_my_apps()">
      <img class="icon" style="position:absolute; right: 15px; top: 15px; cursor: pointer"
width="15" height="15" src="static/img/add.svg" onclick="create_apps_dialog()">
    </div>

    <div id="app_search_div" class="app_search_div">
      <input id="app_search_input" class="input_style" type=text placeholder="filter"
oninput="debounce(search_app_input, 50)()">
    </div>
    <div id="apps_empty_message" class="apps_empty_message">
      <p>Application list is empty</p>
    </div>
    <div id="apps_list_div" class="apps_list_div_scroll scroll_style">
      <div class="apps_list_div">
        <ul id="apps_list"></ul>
      </div>
    </div>
  </div>
```

```html
<!--информация о диске-->
<div class="disk_info">
  <img id="disk_space_img" class="icon" style="margin: 5px 5px" width="18" height="18" src="static/img/dvd-disk.svg">
  <p id="disk_converted" style="margin: -23px 30px">Loading...</p>
</div>

<!--информация о диске в виде прогресс бара-->
<div class="disk_space" id="disk_space_div">
  <div id="disk_space_progress" class="disk_space_progress"></div>
</div>
</div>

<!--информационная панель-->
<div id="rightBar" class="rightBar" style="display: none">
<!--закрытие панели-->
<div class="file_close_button block_select button_margin" onclick="close_rightBar()">
  <img class="icon" width="20" height="20" src="static/img/cross.svg">
</div>

<!--информация о выбранном файле-->
<div id="file_info_block" style="display: none">
  <!--иконка и имя файла-->
  <div class="file_ico_name_div">
    <img id="file_icon" class="icon" style="margin: 10px 10px" width="40" height="40" src="static/img/files/file.svg">
    <input id="fileName_input" class="app_input_ok input_style fileName_input" style="" type=text placeholder="file name" onkeypress="return rename_file_enter(event)">
  </div>

  <!--информация о файле-->
  <div class="file_info_div">
    <p id="file_type" style="margin-top: 10px;">type: None</p>
    <p id="file_size">size: None</p>
    <p id="file_path" style="white-space: nowrap;">path: None</p>
    <p id="file_date">date of change: None</p>
    <textarea class="input_style fileDescription" style="display: none"></textarea>
  </div>

  <!--кнопка скачивания-->
  <a id="file_download_button" href="" download="test">
   <div class="round_button file_download_button block_select button_margin">
     <img class="icon" width="20" height="20" src="static/img/download.svg">
     <p>download</p>
   </div>
  </a>

  <!--кнопка удаления файла-->
  <div id="file_delete_button" class="round_button file_delete_button block_select button_margin">
    <img class="icon" width="20" height="20" src="static/img/trash.svg">
```

```html
        <p>delete</p>
      </div>

      <div id="file_activity_view" class="activity_container">
        <div class="preview_text" id="preview_archive_div">
          <div class="preview_archive input_style scroll_style">
            <ul id="preview_archive_ul" class="preview_archive_ul"></ul>
          </div>
        </div>

        <div class="preview_text" id="preview_text_div">
          <textarea id="preview_text_textarea" class="preview_text_textarea input_style scroll_style" readonly></textarea>
        </div>

        <div class="preview_pdf" id="preview_pdf_div">
          <iframe id="preview_pdf_iframe" class="preview_pdf_iframe"></iframe>
        </div>

        <div class="preview_image" id="preview_image_div">
          <img id="preview_image" class="preview_image_image" width="300px" src="" onclick="image_fullscreen()"/>

          <div class="preview_display_type">
            <label for="" style="position: absolute; margin: 0px 10px;">
            Rendering type:
            <select onchange="preview_image_type(this)" class="preview_rendering_selector" id="preview_image_type" style="margin: 0px 5px">
              <option value="auto">auto</option>
              <option value="crisp-edges">crisp-edges</option>
              <option value="pixelated">pixelated</option>
              <option value="initial">initial</option>
              <option value="inherit">inherit</option>
            </select>
          </label>
          </div>
        </div>

        <div class="preview_video" id="preview_video_div">
          <video class="preview_video_player" id="preview_video" width="300px" onclick="play_video()"></video>
          <div class="preview_video_controls">
          <img id="preview_play_pause_video" class="icon" width="20" height="20" style="position: absolute; margin: 2px 6px;" src="static/img/player/play.svg" onclick="play_video()"/>
          <input type="range" id="preview_video_volume" style="width: 65px; position: absolute; right: 20px; bottom: 8px" name="" min="0" max="100" value="50" step="1" oninput="set_volume_video(this.value)" onchange="set_volume_video(this.value)">
          <input type="range" id="preview_video_input_duration" style="position: absolute; left: 30px; right: 95px; bottom: 8px" name="" min="0" max="100" value="0" step="1" onchange="set_duration_video(this.value)" onmouseover="video_duration_hover = true" onmouseout="video_duration_hover = false"
```

```
onmousemove="showTooltip_video_duration(event)">
        <img id="preview_fullscreen_video" class="icon" width="20" height="20"
style="position: absolute; margin: 2px 4px; right: 2px" src="static/img/player/fullscreen.svg"
onclick="full_screen()"/>
        <div class="preview_video_duration_info" id="preview_video_duration_info">
          <p id="preview_video_duration_info_p"></p>
        </div>
      </div>
    </div>

    <div class="preview_audio block_select" id="preview_audio_div" style="height: 100px;
cursor: default;">
      <div style="height: 50px;"></div>
      <audio id="preview_audio" style="margin: 5px 0px; display: none" width="300px"
controls></audio>
      <img id="preview_play_pause_audio" class="icon" width="40" height="40"
style="position: absolute; margin: 6px 4px;" src="static/img/player/play.svg"
onclick="play_audio()"/>
      <img class="icon" width="20" height="20" style="position: absolute; left: 45px;"
src="static/img/player/back.svg" onclick="next_audio(true)"/>
      <img class="icon" style="transform: rotate(-180deg); position: absolute; right: 4px;"
width="20" height="20" src="static/img/player/back.svg" onclick="next_audio()"/>
      <input id="preview_audio_name" class="preview_audio_name" style="left: 80px; right:
40px; margin-top: 4px;" type=text placeholder="file name" onkeypress="" readonly>
      <input type="range" id="preview_audio_volume" style="width: 70px; position: absolute;
right: -4px; bottom: 8px" name="cowbell" min="0" max="100" value="50" step="1"
oninput="set_volume_audio(this.value)" onchange="set_volume_audio(this.value)">
      <input type="range" id="preview_audio_input_duration" style="position: absolute; left:
45px; right: 75px; bottom: 8px" name="cowbell" min="0" max="100" value="0" step="1"
onchange="set_duration_audio(this.value)" onmouseover="audio_duration_hover = true"
onmouseout="audio_duration_hover = false">
    </div>

    <!-- редактирование (text) -->
    <div id="file_activity_edit_button" class="round_button file_activity_button block_select
button_margin" style="width: 140px; display: none" onclick="()">
      <img class="icon" width="20" height="20" src="static/img/activity/edit.svg">
      <p>open editor</p>
    </div>

    <!-- распаковка (zip) -->
    <div id="file_activity_unpack_button" class="round_button file_activity_button
block_select button_margin" style="width: 140px; display: none"
onclick="activity_unpack_file()">
      <img class="icon" width="20" height="20" src="static/img/activity/unzip.svg">
      <p>unpack</p>
    </div>

    <!-- просмотр (pdf) -->
    <a id="file_activity_view_button_href" target="_blank">
      <div id="file_activity_view_button" class="round_button file_activity_button
block_select button_margin" style="width: 140px; display: none" onclick="()">
```

```html
            <img class="icon" width="20" height="20" src="static/img/activity/see.svg">
            <p>view</p>
          </div>
        </a>

        <!-- открытие оригинала (photo) -->
        <div id="file_activity_original_button" class="round_button file_activity_button
block_select button_margin" style="width: 140px; display: none" onclick="()">
          <img class="icon" width="20" height="20" src="static/img/activity/see.svg">
          <p>open original</p>
        </div>

        <div id="preview_info" class="preview_info">
          <div style="position: absolute; margin: -7px 12px">
          <input type="checkbox" class="custom-checkbox" id="checkbox_preview_image"
name="checkbox_preview_image" value="yes" onchange="load_preview()">
          <label for="checkbox_preview_image"><p>show preview</p></label>
          </div>
        </div>

      </div>

    </div>

  </div>

  <div class="topBar">
    <!--кнопки для навигации-->
    <img id="go_back" class="icon_topBar path_buttons block_select button_margin"
style="left: 210px; transform: rotate(-90deg)" width="30" height="30" src="static/img/arrow
up.svg" onclick="go_back_dir_history()">
    <img id="go_forward" class="icon_topBar path_buttons block_select button_margin"
style="left: 210px; transform: rotate(90deg)" width="30" height="30" src="static/img/arrow
up.svg" onclick="go_forward_dir_history()">
    <img id="refresh" class="icon_topBar path_buttons block_select button_margin" style="left:
210px" width="30" height="30" src="static/img/refresh.svg" onclick="update_dir()">
    <img id="go_home" class="icon_topBar path_buttons block_select button_margin"
style="left: 210px" width="30" height="30" src="static/img/home.svg" onclick="go_home()">
    <input id="path" class="input_style path_input" type=text placeholder="Path"
onkeypress="return parse_dir_enter(event)">

    <!--поиска файлов (не используется)-->
    <div class="search_div" style="display: none">
      <input id="searh_input" class="input_style" style="left: 240px; width: 200px; top: -2px;"
type=text placeholder="Path">
    </div>
  </div>

  <!--затемнённый фон (для настроек)-->
  <div id="background_black" class="background_black" style="display: none"
onclick="close_user()"></div>
```

```html
<div id="leftBar_user" class="leftBar_user" style="display: none">

<div id="admin_panel" class="small_button_style block_select button_margin" style="top:
50px; width: 180px; left: 10px; display: none;" onclick="openInNewTab('admin')">
  <img class="icon" width="20" height="20" src="static/img/admin/dashboard.svg">
  <p>admin panel</p>
</div>

<div id="other_options" style="position: absolute; top: 42px; width: 100%;">
  <p class="settings_name">Interface</p>
  <div class="settings_element">
    <input type="checkbox" class="custom-checkbox top_checkBox"
id="lightThame_chekcbox" name="lightThame_chekcbox" value="yes"
onchange="checkBox_thame(this)">
    <label for="lightThame_chekcbox"><p>Light theme</p></label>
  </div>
  <div class="settings_element">
    <input type="checkbox" class="custom-checkbox top_checkBox"
id="file_icons_chekcbox" name="file_icons_chekcbox" value="yes"
onchange="checkBox_file_icons(this)">
    <label for="file_icons_chekcbox"><p>Colored file icons</p></label>
  </div>
  <div class="settings_element">
    <input type="checkbox" class="custom-checkbox top_checkBox"
id="space_status_chekcbox" name="space_status_chekcbox" value="yes"
onchange="checkBox_space_status(this)">
    <label for="space_status_chekcbox"><p>Colored space status</p></label>
  </div>

  <p class="settings_name">User</p>
  <div id="" class="settings_element_button small_button_style block_select button_margin"
style="" onclick="change_login_dialog()">
    <img class="icon" width="20" height="20" src="static/img/user.svg">
    <p>change login</p>
  </div>
  <div id="" class="settings_element_button small_button_style block_select button_margin"
onclick="change_password_dialog()">
    <img class="icon" width="20" height="20" src="static/img/admin/login.svg">
    <p>change password</p>
  </div>

</div>

<!--версия-->
<div class="div_ver" style="position: absolute; left: 0px; bottom: 40px; width: var(--width-
left-bar)" align="left">
  <p style="margin: 10px 10px"><a href="javascript:open_git_releases()">ver:
{{ version }}</a></p>
</div>

<!--кнопка для выхода из аккаунта-->
<div class="button_exit_style small_button_style block_select button_margin"
```

```html
onclick="logout()">
    <img class="icon" width="20" height="20" src="static/img/logout.svg">
    <p>logout</p>
   </div>
  </div>

  <div id="path_select_list_div" class="path_select_list_div" style="display: none">
   <ul id="path_list" style="position: absolute; top: -14px;"></ul>
  </div>

  <!--кнопка для открытия настроек-->
  <div id="user_button" class="user_button_no_selected_color user_button block_select
button_margin" onclick="open_close_user_button()">
    <img id="user_avatar" class="icon_topBar" style="margin: 0px 15px" width="25"
height="25" src="static/img/user.svg">
    <p class="top_bar_font_color" id="user_status" style="margin: -22px 45px; color:
#959DA5; font-size: 1em"></p>
    <p class="top_bar_font_color" id="user_name" style="margin: 15px 45px">Loading...</p>
    <img id="user_button_triangle" class="icon_topBar" style="position:absolute; right: 10px;
top: 10px" width="10" height="10" src="static/img/triangle.svg">
  </div>

  <!--кнопка для выбора диска-->
  <div id="path_select_button" class="path_select_button
path_select_button_no_selected_color block_select button_margin"
onclick="open_close_path_button()">
    <img id="disk_image" class="icon_topBar" style="margin: 10px 15px" width="25"
height="25" src="static/img/dvd-disk.svg">
    <p class="top_bar_font_color" id="path_status_size" style="position: absolute; margin: -
42px 45px; color: #959DA5">1Gb</p>
    <p class="top_bar_font_color" id="path_name" style="position: absolute; margin: -28px
45px">home</p>
    <img id="path_select_button_triangle" class="icon_topBar" style="position:absolute; right:
10px; top: 10px" width="10" height="10" src="static/img/triangle.svg">
  </div>

  <!--окно приложения-->
  <div id="dialog_bg" class="dialog_backgound" onclick="close_dialogs()" style="display:
none"></div>

  <!--диалоговые окна-->

  <!-- Загрузка файла -->
  <div id="dialog_upload" class="dialog_style scroll_style" style="display: none">
   <ul id="file_upload_ul" class="file_upload_ul"></ul>
   <!---->
   <!-- <div class="file_upload_info">
     <img class="icon anim_rotate" style="position: absolute; right: 10px; top: 0px;"
width="45" height="45" src="static/img/dvd-disk.svg">
    <p id="upload_file_count" style="margin: 10px 10px;">Upload 0 files...</p>
    <h3 id="upload_file_name" style="margin: 10px 10px;">test.txt</h3>
   </div> -->
```

```html
<!--информация о диске в виде прогресс бара-->
<!-- <p style="position: absolute; right: 8px; bottom: 3px; margin: 0px;">100%</p>
<div class="upload_bg">
  <div id="upload_progress" class="upload_progress"></div>
</div> -->

</div>

<!-- Изменение логина -->
<div id="dialog_change_login" class="dialog_style" style="height: 180px;">
  <div class="dialog_top_name">
    <div class="dialog_close_button block_select button_margin"
onclick="close_change_login_dialog()">
      <img class="icon" width="20" height="20" src="static/img/cross.svg">
      <p>close</p>
    </div>
  </div>

  <div class="dialog_info">
    <img class="icon" style="position: absolute; left: 10px; top: 10px;" width="40"
height="40" src="static/img/user.svg">
    <input id="new_login_input" class="app_input_ok input_style create_fileName_input"
type=text placeholder="new login" autocomplete="off">
  </div>

  <div style="position: absolute; top: 90px; left: 0px; right: 0px; text-align: center;">
    <p style="width: 100%;">The login can only be made up of Latin alphabet characters and
numbers.</p>
  </div>

  <div class="round_button dialog_button block_select" style="left: 10px; bottom: 10px;
width: 100px;" onclick="change_login()">
    <p style="margin: 5px 28px">change</p>
  </div>
</div>

<!-- Изменение пароля -->
<div id="dialog_change_password" class="dialog_style" style="height: 245px;">
  <div class="dialog_top_name">
    <div class="dialog_close_button block_select button_margin"
onclick="close_change_password_dialog()">
      <img class="icon" width="20" height="20" src="static/img/cross.svg">
      <p>close</p>
    </div>
  </div>

  <div id="old_pass_div" class="app_input_ok input_text" style="left: 15px; top: 45px; right:
15px;">
    <p>current:</p>
    <input id="old_pass_input" style="left: 60px;" class="input_style create_fileName_input"
type=password placeholder="..." autocomplete="off">
```

```html
      </div>

      <div id="new_pass_div" class="app_input_ok input_text" style="left: 15px; top: 90px; right:
15px;">
        <p>new:</p>
        <input id="new_pass_input" style="left: 60px;" class="input_style create_fileName_input"
type=password placeholder="..." autocomplete="off">
      </div>

      <div id="new_pass_repeat_div" class="app_input_ok input_text" style="left: 15px; top:
125px; right: 15px;">
        <p>repeat:</p>
        <input id="new_pass_repeat_input" style="left: 60px;" class="input_style
create_fileName_input" type=password placeholder="..." autocomplete="off">
      </div>

      <div style="position: absolute; top: 150px; left: 0px; right: 0px; text-align: center;">
        <p style="width: 100%;">The length of the new password must be at least 4 characters</p>
      </div>

      <!-- <div style="position: absolute; top: 160px; left: 0px; right: 0px; text-align: center;">
        <p style="width: 100%;">After changing the password, you will need to re-log in to your
account</p>
      </div> -->

      <div class="round_button dialog_button block_select" style="left: 10px; bottom: 10px;
width: 100px;" onclick="change_password()">
        <p style="margin: 5px 28px">change</p>
      </div>
    </div>

    <!-- окно приложения -->
    <div id="dialog_main_app" class="main_app_dialog" style="">
      <div class="dialog_top_name">
        <div class="dialog_close_button block_select button_margin"
onclick="close_main_app_dialog()">
          <img class="icon" width="20" height="20" src="static/img/cross.svg">
          <p>close</p>
        </div>
        <div id="app_new_window_button" class="dialog_new_window_button block_select
button_margin" style="right: 100px;" onclick="">
          <img class="icon" width="20" height="20" src="static/img/new-window.svg">
          <p>open in new tab</p>
        </div>
      </div>

      <div id="main_app" class="main_app">
        <iframe id="main_app_frame" class="main_app_frame" style="width: 100%; height:
100%;"></iframe>
      </div>

    </div>
```

```html
<!-- создание приложения -->
<div id="dialog_create_apps" class="dialog_style" style="height: 350px;">
  <div class="dialog_top_name">
    <div class="dialog_close_button block_select button_margin"
onclick="close_create_apps_dialog()">
      <img class="icon" width="20" height="20" src="static/img/cross.svg">
      <p>close</p>
    </div>
  </div>

  <div class="apps_buttons_container">
    <ul id="apps_buttons"></ul>
  </div>

  <div id="apps_main_div" class="apps_main_div"></div>

  <div class="round_button dialog_button block_select" style="right: 10px; bottom: 10px;
width: 100px;" onclick="append_app()">
    <p style="margin: 5px 28px">create</p>
  </div>
</div>

<!-- удаление приложения -->
<div id="dialog_delete_app" class="dialog_style" style="height: 160px;">
  <div class="dialog_top_name">
    <div class="dialog_close_button block_select button_margin"
onclick="close_delete_app_dialog()">
      <img class="icon" width="20" height="20" src="static/img/cross.svg">
      <p>close</p>
    </div>
  </div>

  <p style="position: absolute; top: 30px; font-size: 1.1em; left: 0px; width: 100%; text-align:
center;">Do you really want to delete this app?</p>
  <p id="delete_app_name" style="position: absolute; top: 60px; left: 0px; width: 100%; text-
align: center;"></p>

  <div class="round_button dialog_button block_select" style="right: 10px; bottom: 10px;
width: 100px;" onclick="close_delete_app_dialog()">
    <p style="margin: 5px 28px">cancel</p>
  </div>
  <div id="delete_app_button" class="round_button red_dialog_button block_select"
style="right: 120px; bottom: 10px; width: 100px;">
    <p style="margin: 5px 28px">delete</p>
  </div>
</div>

<!-- только для чтения -->
<div id="dialog_readonly" class="dialog_style" style="height: 160px;">
  <div class="dialog_top_name">
    <div class="dialog_close_button block_select button_margin"
```

```
onclick="close_readonly_dialog()">
      <img class="icon" width="20" height="20" src="static/img/cross.svg">
      <p>close</p>
    </div>
  </div>

    <img class="icon" width="60" height="60" style="position: absolute; right: 30px; top:
45px;" src="static/img/warning.svg">
    <h3 style="position: absolute; top: 40px; left: 110px;" align="right">This path is read-
only.</h3>
    <p style="position: absolute; top: 70px; left: 50px;" align="right"></p>

    <div class="round_button dialog_button block_select" style="left: 10px; bottom: 10px;
width: 100px;" onclick="close_readonly_dialog()">
      <p style="margin: 5px 40px">ok</p>
    </div>
  </div>

  <!-- нехватка места -->
  <div id="dialog_no_place" class="dialog_style" style="height: 160px;">
    <div class="dialog_top_name">
      <div class="dialog_close_button block_select button_margin"
onclick="close_no_place_dialog()">
        <img class="icon" width="20" height="20" src="static/img/cross.svg">
        <p>close</p>
      </div>
    </div>

    <img class="svg_orage" width="60" height="60" style="position: absolute; right: 30px; top:
45px;" src="static/img/warning.svg">
    <h3 style="position: absolute; top: 40px; left: 110px;" align="right">There is no disk space
to modify the file.</h3>
    <p style="position: absolute; top: 70px; left: 50px;" align="right">Delete unnecessary files
or ask the administrator to increase the limit.</p>

    <div class="round_button dialog_button block_select" style="left: 10px; bottom: 10px;
width: 100px;" onclick="close_no_place_dialog()">
      <p style="margin: 5px 40px">ok</p>
    </div>
  </div>

  <!-- Удаление файлов -->
  <div id="dialog_delete_file" class="dialog_style">
    <div class="dialog_top_name">
      <div class="dialog_close_button block_select button_margin"
onclick="close_delete_file_dialog()">
        <img class="icon" width="20" height="20" src="static/img/cross.svg">
        <p>close</p>
      </div>
    </div>

    <p style="position: absolute; left: 10px; top: 40px">Delete file list:</p>
```

```html
    <textarea id="delete_file_list" class="input_style fileDescription scroll_style"
style="position: absolute; top: 40px; left: 125px; width: 460px; height: 140px;"
readonly></textarea>

    <div id="delete_file_button" class="round_button red_dialog_button block_select"
style="left: 10px; bottom: 10px; width: 100px;">
      <p style="margin: 5px 28px">delete</p>
    </div>
   </div>

   <!-- Создание файлов и директорий -->
   <div id="dialog_create_file" class="dialog_style" style="height: 180px;">
    <div class="dialog_top_name">
     <div class="dialog_close_button block_select button_margin"
onclick="close_create_file_dialog()">
       <img class="icon" width="20" height="20" src="static/img/cross.svg">
       <p>close</p>
     </div>
    </div>

    <div class="dialog_info">
      <img class="icon" id="create_file_image" style="position: absolute; left: 10px; top: 10px;"
width="40" height="40" src="">
      <input id="create_fileName_input" class="app_input_ok input_style
create_fileName_input" type=text placeholder="file name" onkeypress="return
create_file_enter(event)" autocomplete="off">
    </div>

    <div style="position: absolute; top: 90px; left: 0px; right: 0px; text-align: center;">
     <p style="width: 100%;">Object name must not be empty and contain extraneous
characters ( / \ : * ? < > | ).</p>
    </div>

    <div id="create_file_button" class="round_button dialog_button block_select" style="left:
10px; bottom: 10px; width: 100px;">
      <p style="margin: 5px 28px">create</p>
    </div>
   </div>

   <!--видео в полный экран-->
   <div id="preview_video_fullscreen_div" class="main_app_dialog block_select"
style="display: none">
    <div class="dialog_top_name">
     <div class="dialog_close_button block_select button_margin" onclick="full_screen()">
       <img class="icon" width="20" height="20" src="static/img/cross.svg">
       <p>close</p>
     </div>
    </div>
    <div class="full_screen_content">
     <video id="preview_video_fullscreen" class="preview_video_fullscreen_video"
onclick="play_video()"></video>
     <div class="preview_video_fullscreen_controls">
```

```html
        <img id="preview_play_pause_video_fullscreen" class="icon" width="20" height="20"
style="position: absolute; margin: 2px 4px; cursor: pointer;" src="static/img/player/play.svg"
onclick="play_video()"/>
        <input type="range" id="preview_video_volume_fullscreen" style="width: 65px; position:
absolute; right: 20px; bottom: 8px" name="" min="0" max="100" value="50" step="1"
oninput="set_volume_video(this.value)" onchange="set_volume_video(this.value)">
        <input type="range" id="preview_video_input_duration_fullscreen" style="position:
absolute; left: 30px; right: 95px; bottom: 8px" name="" min="0" max="100" value="0"
step="0.1" onchange="set_duration_video(this.value)" onmouseover="video_duration_hover =
true" onmouseout="video_duration_hover = false"
onmousemove="showTooltip_video_duration(event)">
        <img id="preview_fullscreen_video_fullscreen" class="icon" width="20" height="20"
style="position: absolute; margin: 2px 4px; right: 0px; cursor: pointer;"
src="static/img/player/fullscreen.svg" onclick="full_screen()"/>

        <div class="preview_video_duration_info"
id="preview_video_duration_info_fullscreen">
          <p id="preview_video_duration_info_p_fullscreen"></p>
        </div>
      </div>
    </div>

  </div>

  <!--изображение на полный экран-->
  <div id="preview_image_fullscreen_div" class="main_app_dialog block_select">
    <div class="dialog_top_name">
      <div class="preview_display_type_fullscreen">
        <label for="" style="position: absolute; margin: 0px 10px; left: 0px;">
        Rendering type:
        <select onchange="preview_image_type(this)" class="preview_rendering_selector"
id="preview_image_type_fullscreen" style="margin: 0px 5px">
          <option value="auto">auto</option>
          <option value="crisp-edges">crisp-edges</option>
          <option value="pixelated">pixelated</option>
          <option value="initial">initial</option>
          <option value="inherit">inherit</option>
        </select>
        </label>
      </div>
      <div class="dialog_close_button block_select button_margin"
onclick="image_fullscreen()">
        <img class="icon" width="20" height="20" src="static/img/cross.svg">
        <p>close</p>
      </div>
    </div>
    <div class="full_screen_content">
      <img id="preview_image_fullscreen" class="preview_image_fullscreen_image" src=""
style="" />

      <div class="preview_image_fullscreen_move" style="left: 0px"
onclick="next_image(true)">
```

```html
        <img class="icon" width="100%" height="100%" style="transform: rotate(-180deg)"
src="static/img/player/back-image.svg"/>
      </div>

      <div class="preview_image_fullscreen_move" style="right: 0px" onclick="next_image()">
        <img class="icon" width="100%" height="100%" src="static/img/player/back-
image.svg"/>
      </div>
    </div>
  </div>

  <div id="drag_and_drop_div" style="display: none">
    <div class="dialog_backgound" style="display: block"></div>
    <div class="drag_and_drop_border">
      <h1 style="width: 100%; text-align: center;">Drag and drop files here to upload</h1>
    </div>
  </div>

  <input name="fileElem" type="file" id="fileElem" style="display: none;" multiple
onchange="uploadFileNODD(this.files)">

</body>

<script>
  var mobile = false;

</script>
<script type="text/javascript" src="static/js/main.1.js"></script>

<script type="text/javascript" src="static/js/theme.1.js"></script>

<script type="text/javascript" src="static/js/info.1.js"></script>
<script type="text/javascript" src="static/js/user.1.js"></script>
<script type="text/javascript" src="static/js/upload_file.1.js"></script>
<script type="text/javascript" src="static/js/player.1.js"></script>

<script type="text/javascript" src="static/js/file/globals.1.js"></script>
<script type="text/javascript" src="static/js/file/append.1.js"></script>
<script type="text/javascript" src="static/js/file/dialogs.1.js"></script>
<script type="text/javascript" src="static/js/file/preview.1.js"></script>
<script type="text/javascript" src="static/js/file/select.1.js"></script>
<script type="text/javascript" src="static/js/file/sort.1.js"></script>
<script type="text/javascript" src="static/js/file/move.1.js"></script>
<script type="text/javascript" src="static/js/file/routes.1.js"></script>
<script type="text/javascript" src="static/js/file/render.1.js"></script>

<script type="text/javascript" src="static/js/apps.1.js"></script>

</html>
```