САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ

ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО

Дисциплина: Фронд-энд разработка

Отчет

Лабораторная работа 2: взаимодействие с внешним API

Выполнила:

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Санкт-Петербург

2023 г.

Задача

Необходимо привязать верстку из первой лабораторной работы к внешнему API средствами fetch/axios/xhr, тем самым взаимодействуя из данными извне приложения.

Ход работы

1. **Подключение API Flask приложения**

```
104
    Nikita B
105 @bp.route("/login2", methods=("GET", "POST"))
106 def login2():
107     if request.method == "POST":
108         username = request.form["username"]
109         password = request.form["password"]
110         db = get_db()
111         error = None
112         user = db.execute(
113             "SELECT * FROM user WHERE username = ?", (username,)
114         ).fetchone()
115
116         if user is None:
117             error = "Incorrect username."
118         elif not check_password_hash(user["password"], password):
119             error = "Incorrect password."
120
121         if error is None:
122             # store the user id in a new session and return to the index
123
124             session.clear()
125             session["user_id"] = user["id"]
126             return redirect(url_for("blog.index2"))
127
128         flash(error)
129
130     return render_template("auth/login2.html")
131
132
    Nikita B
133 @bp.route("/logout")
134 def logout():
135     session.clear()
136     return redirect(url_for("auth.login2"))
```

```python
    cursor = conn.cursor()

    if user_id == 0:
        v3_data_1 = list(cursor.execute("SELECT initiate_timestamp FROM sessions WHERE conversation_start_timestamp IS NOT NULL"))
        v3_data_2 = list(cursor.execute("SELECT conversation_start_timestamp FROM sessions WHERE conversation_start_timestamp IS NOT NULL"))
    else:
        v3_data_1 = list(cursor.execute("SELECT initiate_timestamp FROM sessions WHERE conversation_start_timestamp IS NOT NULL and court_id=?", (
        v3_data_2 = list(cursor.execute("SELECT conversation_start_timestamp FROM sessions WHERE conversation_start_timestamp IS NOT NULL and cour

    v3_data_1 = ["".join(str(tup[0])) for tup in v3_data_1]
    v3_data_2 = ["".join(str(tup[0])) for tup in v3_data_2]
    v3_data_1 = [int(i) for i in v3_data_1]
    v3_data_2 = [int(i) for i in v3_data_2]
    v3_data_3 = [v3_data_2[i] - v3_data_1[i] for i in range(len(v3_data_1))]
    v3 = f"{round(sum(v3_data_3) / len(v3_data_3) / 60, 2)}"

    conn.commit()
    conn.close()

    return v3


Nikita B
def get_average_time_of_operator_dialogue(user_id):
    conn = sqlite3.connect('../court-bot/database/db')
    cursor = conn.cursor()

    if user_id == 0:
        v4_data_1 = list(cursor.execute("SELECT conversation_start_timestamp FROM sessions WHERE completion_timestamp IS NOT NULL"))
        v4_data_2 = list(cursor.execute("SELECT completion_timestamp FROM sessions WHERE completion_timestamp IS NOT NULL"))
    else:
        v4_data_1 = list(cursor.execute("SELECT conversation_start_timestamp FROM sessions WHERE completion_timestamp IS NOT NULL and court_id=?",
        v4_data_2 = list(cursor.execute("SELECT completion_timestamp FROM sessions WHERE completion_timestamp IS NOT NULL and court_id=?", (user_i

    v4_data_1 = ["".join(str(tup[0])) for tup in v4_data_1]
    v4_data_2 = ["".join(str(tup[0])) for tup in v4_data_2]
    v4_data_1 = [int(i) for i in v4_data_1]
    v4_data_2 = [int(i) for i in v4_data_2]
```

```javascript
no usages  Nikita B
var randomChartData = function randomChartData(n, min, max) {
  var data = [];
  for (var i = 0; i < n; i++) {
    data.push(Math.floor( x: Math.random() * (max - min + 1)) + min);
  }

  return data;
};


5+ usages  Nikita B
function updateScale(chart) {
  let fromDateChartDisplay = document.getElementById( elementId: "inputDateFrom").value;
  let toDateChartDisplay = document.getElementById( elementId: "inputDateTo").value;
  console.log("FAC1!!!!", fromDateChartDisplay);

  if (fromDateChartDisplay !== "" && toDateChartDisplay !== "") {
    let left_filter_index = dates_sucs_sessions.indexOf(fromDateChartDisplay);
    let right_filter_index = dates_sucs_sessions.indexOf(toDateChartDisplay);

    dates_sucs_sessions_for_charts = dates_sucs_sessions.slice(left_filter_index, right_filter_index);
    points_sucs_sessions_for_charts = points_sucs_sessions.slice(left_filter_index, right_filter_index);
    dates_fail_sessions_for_charts = dates_fail_sessions.slice(left_filter_index, right_filter_index);
    points_fail_sessions_for_charts = points_fail_sessions.slice(left_filter_index, right_filter_index);
  }
```

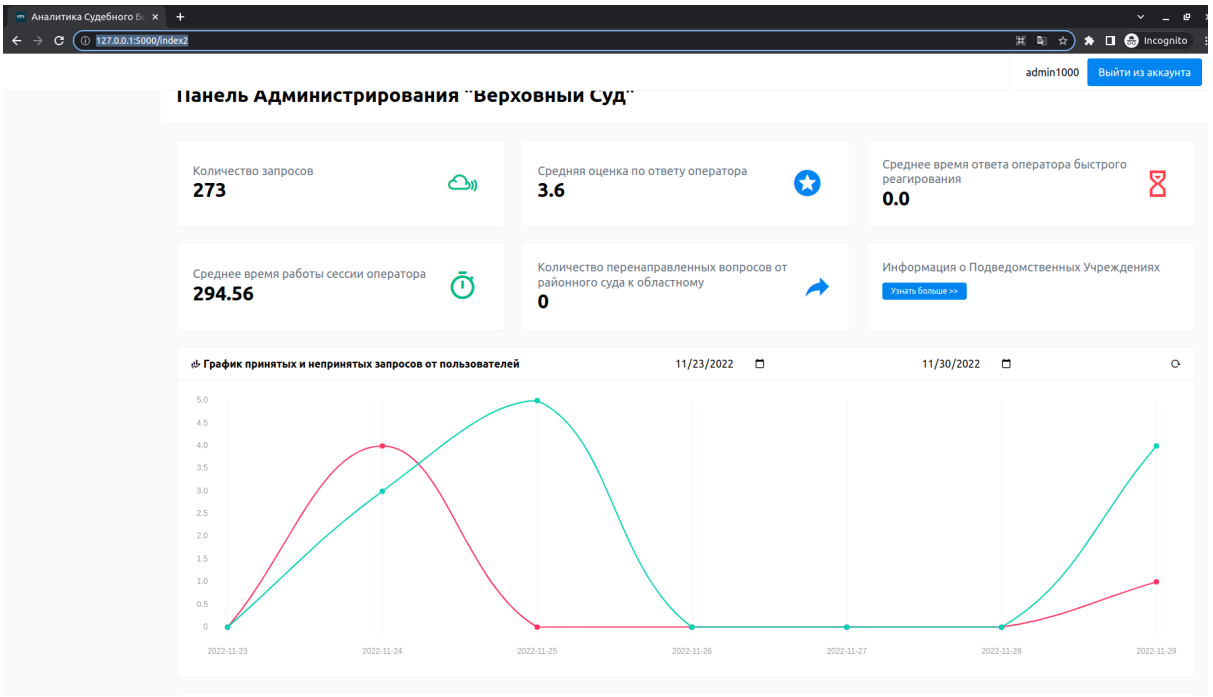
2. Реализация фильтров

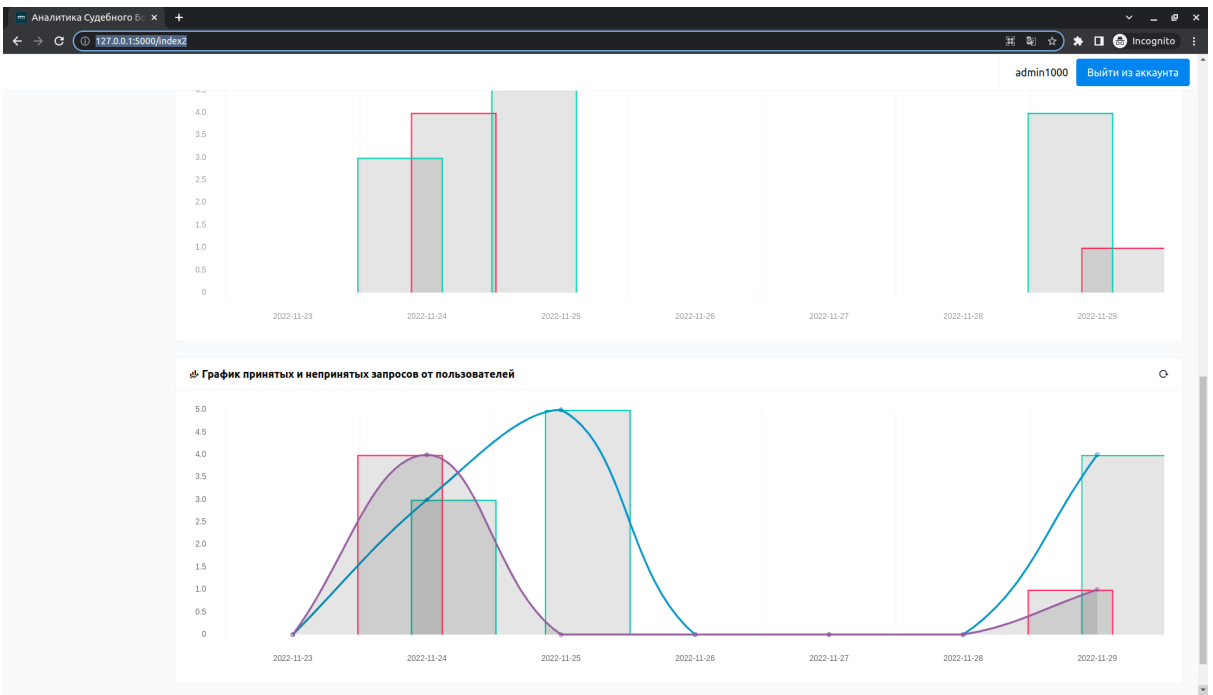
```
43
44  if (fromDateChartDisplay !== "" && toDateChartDisplay !== "") {
45    let left_filter_index = dates_sucs_sessions.indexOf(fromDateChartDisplay);
46    let right_filter_index = dates_sucs_sessions.indexOf(toDateChartDisplay);
47
48    dates_sucs_sessions_for_charts = dates_sucs_sessions.slice(left_filter_index, right_filter_index);
49    points_sucs_sessions_for_charts = points_sucs_sessions.slice(left_filter_index, right_filter_index);
50    dates_fail_sessions_for_charts = dates_fail_sessions.slice(left_filter_index, right_filter_index);
51    points_fail_sessions_for_charts = points_fail_sessions.slice(left_filter_index, right_filter_index);
52  }
53
54  if (chart === chrt1 || chart === chrt2) {
55    chart.data.datasets = [{
56      fill: false,
57      borderColor: chartColors["default"].primary,
58      borderWidth: 2,
59      borderDash: [],
60      borderDashOffset: 0.0,
61      pointBackgroundColor: chartColors["default"].primary,
62      pointBorderColor: 'rgba(255,255,255,0)',
63      pointHoverBackgroundColor: chartColors["default"].primary,
64      pointBorderWidth: 20,
65      pointHoverRadius: 4,
66      pointHoverBorderWidth: 15,
67      pointRadius: 4,
68      data: points_sucs_sessions_for_charts,
69    }, {
70      fill: false,
71      borderColor: chartColors["default"].info,
72      borderWidth: 2,
73      borderDash: [],
74      borderDashOffset: 0.0,
75      pointBackgroundColor: chartColors["default"].info,
76      pointBorderColor: 'rgba(255,255,255,0)',
77      pointHoverBackgroundColor: chartColors["default"].info,
78      pointBorderWidth: 20,
79      pointHoverRadius: 4,
```

3. Итоговый результат

mm/dd/yyyy mm/dd/yyyy

11/23/2022 11/30/2022





Вывод

По итогу выполнения поставленной задачи - к имеющимся нароботкам основанным на HTML, CSS и Bootstrap, был подключен и протестирован бэкэнд приложения по работе с внешним API который позволяет авторизовать пользователя, просматривать и редактировать данные.