#### **REPORT TO FINAL PROJECT “Find your children”** *Completed by Alimzhan Damir, Temirbayev Zhasulan*

#### **1. Introduction**

This project focuses on developing an interactive web application to enhance child tracking and safety for parents. The application integrates a map interface, child profile management, and real-time location tracking. Technologies such as HTML, CSS, JavaScript, Yandex Maps API, Salebot API were used to build a responsive and functional solution.

The project addresses the need for an efficient child tracking solution. In today’s fast-paced environment, parents require reliable tools to ensure their children’s safety. This application provides a seamless way to monitor children’s location through a map-based interface and customizable features.

#### **3. Problem Statement**

A significant number of individuals, including both children and adults, go missing every day. Police typically initiate search efforts only 48 hours after the incident is reported, which often results in a low success rate for locating them.

#### **4. Features and Functionalities**

* **Main functions:**
  + Control children.
  + Showing the children` location.
  + Sending ping messages.

**Adding a child to sidebar:**

childForm.addEventListener('submit', (event) => {

event.preventDefault();

const name = document.getElementById('childName').value;

const phone = document.getElementById('childPhone').value;

const childButton = document.createElement('button');

childButton.className = 'btn btn-dark w-100 mb-2';

childButton.innerText = `${name} (${phone})`;

childButton.dataset.childName = name;

childButton.dataset.childPhone = phone;

childList.appendChild(childButton);

popup.classList.remove('active');

childForm.reset();

console.log(childList)

});

**Find the child`s location:**

function trackChild() {

if (coordinates.length === 0) {

console.error("Аболтус корды пустые");

return;

}

const randomIndex = Math.floor(Math.random() \* coordinates.length);

const randomCoords = coordinates[randomIndex];

console.log("Корды:", randomCoords);

if (!childName) {

alert('Please select a child to track!');

return;

}

myMap.geoObjects.removeAll();

const placemark = new ymaps.Placemark(

[randomCoords.shir, randomCoords.dolg],

{

hintContent: `Child: ${childName}, Place: ${randomCoords.place}`

},

{

preset: 'islands#redIcon',

}

);

myMap.geoObjects.add(placemark);

myMap.setCenter([randomCoords.shir, randomCoords.dolg], 17);

}

trackButton.addEventListener('click', trackChild);

#### 

#### **5. Technology Stack**

* HTML/CSS/Bootstrap: for creating a responsive user interface.
* JavaScript: for interactive features (adding children, tracking, map integration).
* Yandex Maps API: for displaying the map and adding markers.
* Salebot: for sending spam/pings to the child.

#### **6. Explanation of Key Code**

**Adding a placemark to map:**  
const placemark = new ymaps.Placemark(

[randomCoords.shir, randomCoords.dolg],

{

hintContent: `Child: ${childName}, Place: ${randomCoords.place}`

},

{

preset: 'islands#redIcon',

}

* + *This code places a marker on the map with the child’s name and location information. It uses the Yandex Maps API to dynamically render markers.*

**Calling child:**

function callChild() {

if (!childName) {

alert('Please select a child to track!');

return;

}

window.location.href = `https://wa.me/${childPhone}`;

}

callButton.addEventListener('click', callChild);

* + *This function redirects users to whatsapp to give the ability to call a child.*

**Calling child:**

function pingChild(){

window.open(`https://salebot.site/f2d41caef6ac04470be6cc06609dd515\_1?chPhone=${childPhone}&chName=${childName}`, '\_blank');

// if (!childName) {

// alert('Please select a child to track!');

// return;

// }

// var request = new XMLHttpRequest();

// request.open("POST", "https://chatter.salebot.pro/api/2d57741bb87f70e63b26bef79e7fb761/callback");

// request.setRequestHeader('Content-type', 'application/json');

// var params = {

// message: "My Webhook Name",

// client\_id: "630835873",

// content: "The message to send"

// }

// request.send(JSON.stringify(params));

}

pingButton.addEventListener('click', pingChild)

;

* + *This function redirects users to tgbot to trigger the child pinging.*

#### **7. Challenges and Solutions**

* Sending a webhook to Salebot was implemented by utilizing a proxy link to a Telegram bot, which successfully triggered the pinging process.
* The Yandex Maps API provided open-source functionality; however, we encountered issues with version 3.0. By switching to version 2.1, we were able to resolve all the problems.
* Certain challenges arose while working with JavaScript. To address these, we utilized open-source resources and leveraged GPT to find relevant instructions, which were then applied to complete the tasks effectively.

#### **9. References**

* [Documentation Yandex Maps API](https://yandex.ru/dev/jsapi-v2-1/doc/ru/).
* [Articles on stack overflow](https://stackoverflow.com)
* [Bootstrap documentation](https://getbootstrap.com/docs/5.3/getting-started/introduction/).
* [Salebot](http://salebot.pro).
* [Chat GPT.](https://chatgpt.com/)

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#### **10. Attachments**

* [Figma prototype](https://www.figma.com/design/FDFDIRuhnPgnJWrGIN3V9m/Untitled?node-id=0-1&t=U3PXTAsloQpneLyW-1).
* Interface screenshot:

