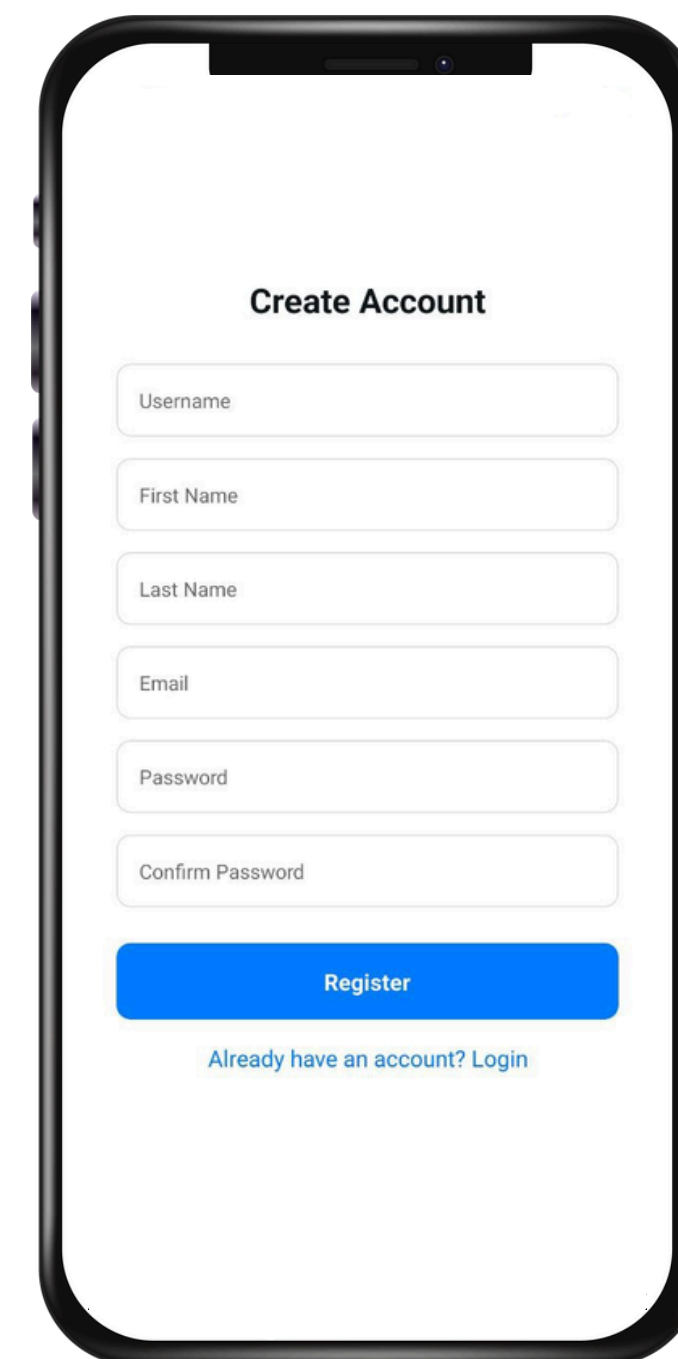QamqorTech

Sensor monitoring system for IOT

Shokabayev Temirlan
Malbekov Chingiz

We are –
QamqorTech

We develop modern solutions for <u>IoT</u> monitoring.
Our goal is to prevent emergency situations and protect people by implementing monitoring technologies.

Create Account

Username

First Name

Last Name

Email

Password

Confirm Password

Register

Already have an account? Login

<u>IoT (internet of things) – концепция сети передачи данных между физическими объектами («вещами»),</u>
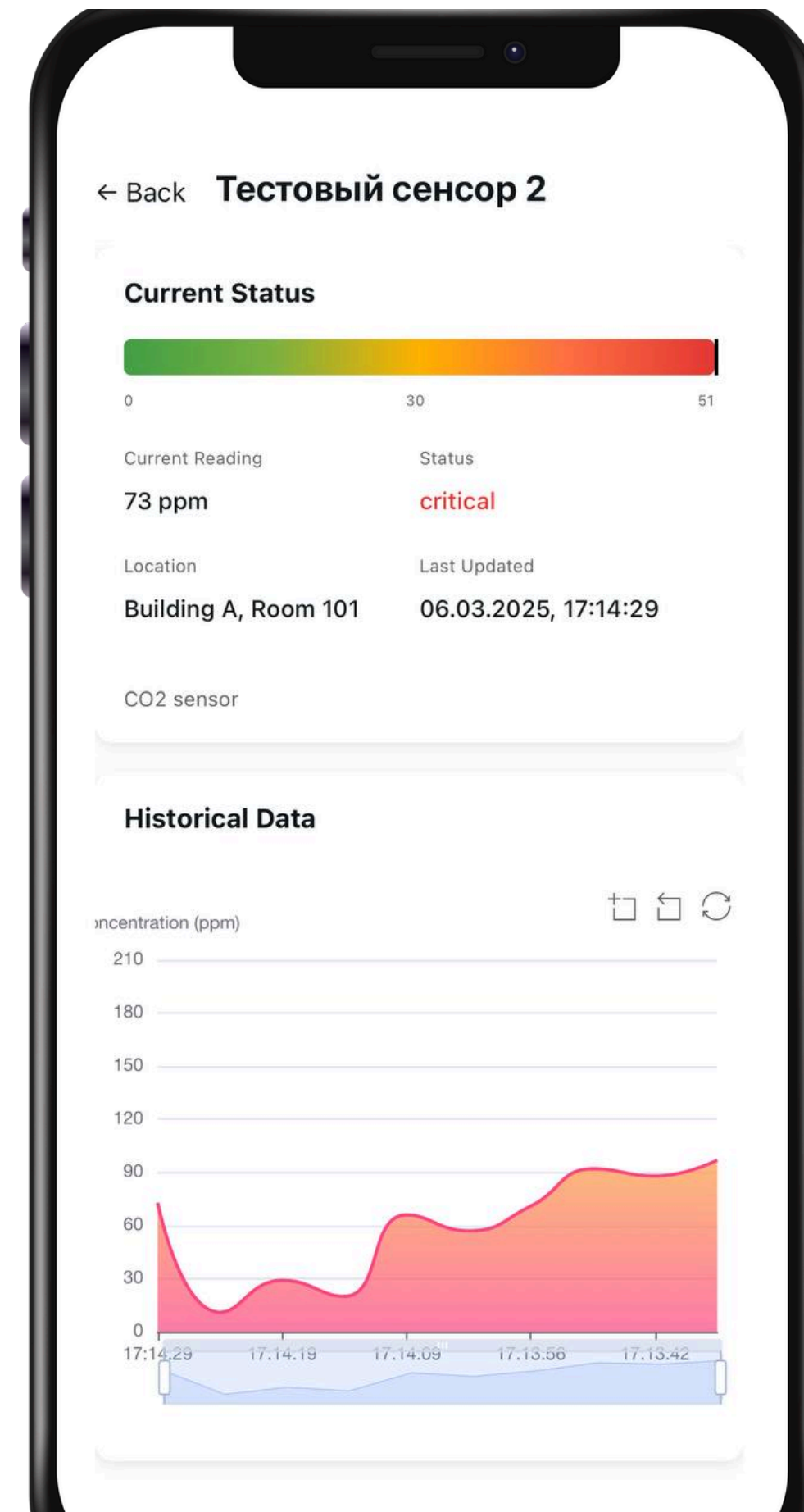
Problem

What problem are we solving?
- Raw and unstructured sensor data
- Lack of classification and visualization
- Data loss due to communication failures
- Difficulty in integration

Our solution:

Automatic processing, categorization and stable data transmission with convenient display (89%, 239 ppm², 39°)
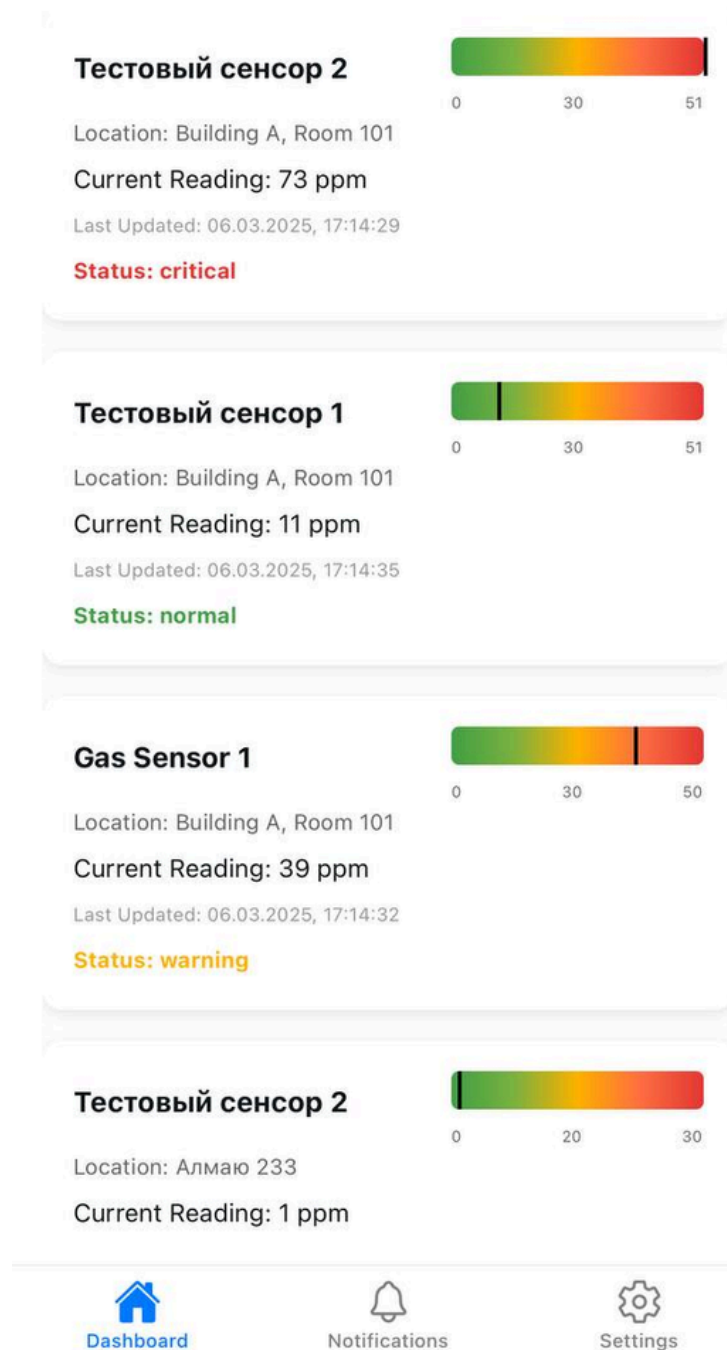
System dashboard on a mobile application

Our dashboard is a convenient and visual tool for monitoring gas safety in real time.

Key elements:

- **Gas concentration graphs** – visualization of sensor data for quick situation analysis
- **Detailed information** – display of sensor locations, last sensor reading.
- **Alert system** – instant notifications about exceeding limit values.
- **Event log** – history of all recorded leaks and system actions.
- **Graph-based analytics** – display of graphs based on accumulated data

Sensor Dashboard

Тестовый сенсор 2
Location: Building A, Room 101
Current Reading: 73 ppm
Last Updated: 06.03.2025, 17:14:29
Status: critical

Тестовый сенсор 1
Location: Building A, Room 101
Current Reading: 11 ppm
Last Updated: 06.03.2025, 17:14:35
Status: normal

Gas Sensor 1
Location: Building A, Room 101
Current Reading: 39 ppm
Last Updated: 06.03.2025, 17:14:32
Status: warning

Тестовый сенсор 2
Location: Алмаю 233
Current Reading: 1 ppm

Dashboard   Notifications   Settings

← Back   Тестовый сенсор 2

Current Status

Current Reading   Status
73 ppm   critical

Location   Last Updated
Building A, Room 101   06.03.2025, 17:14:29

CO2 sensor

Historical Data

concentration (ppm)
210
180
150
120
90
60
30
0
17:14:29   17:14:19   17:14:09   17:13:56   17:13:42

ALERT SYSTEM

instant notifications of exceeded limits and a history log of all recorded leaks and system actions
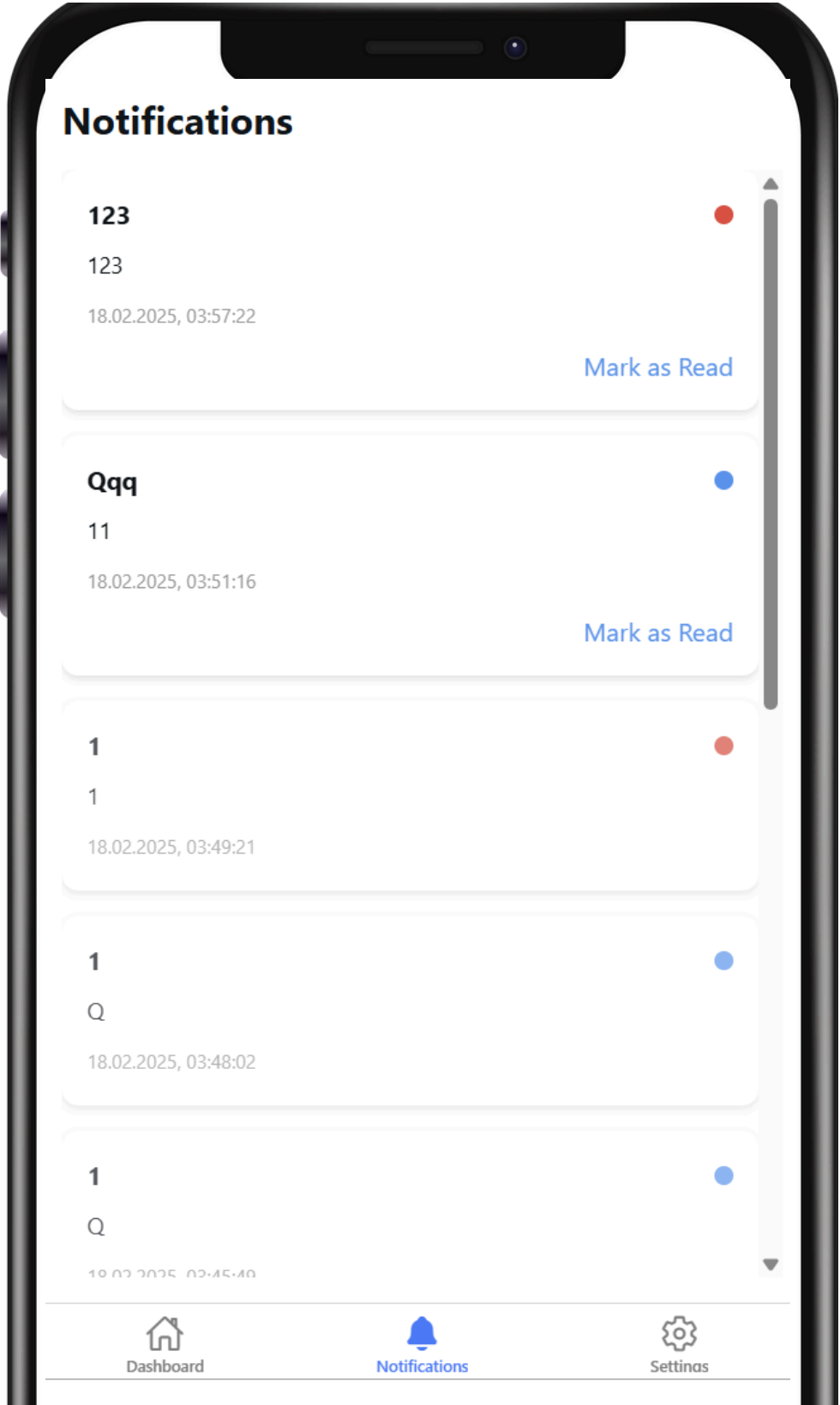
Flexible administrable system

Our mobile application provides convenient administration of sensors at any time and in any place.

Admin panel: access control and user management

- Adding and deleting sensors to the system
- Configuring thresholds and notifications
- Role distribution - assigning roles (administrator, operator/user)
- Remote sensors

Settings

Notifications

Push Notifications

Email Notifications

Admin Panel

Logout

Dashboard

Notifications

Settings

Panel 1: Admin Panel (Users)

Users | Sensors

Diane Begaliyeva
dkatsub@gmail.com
Role: user

emulatornew emulatornew
emulator@emulator.com
Role: user

Madi Madi
m.muratuly@gmail.com
Role: user

new new
new@new.com
Role: user

rerror
Role: admin

temirlan1 temirlan1
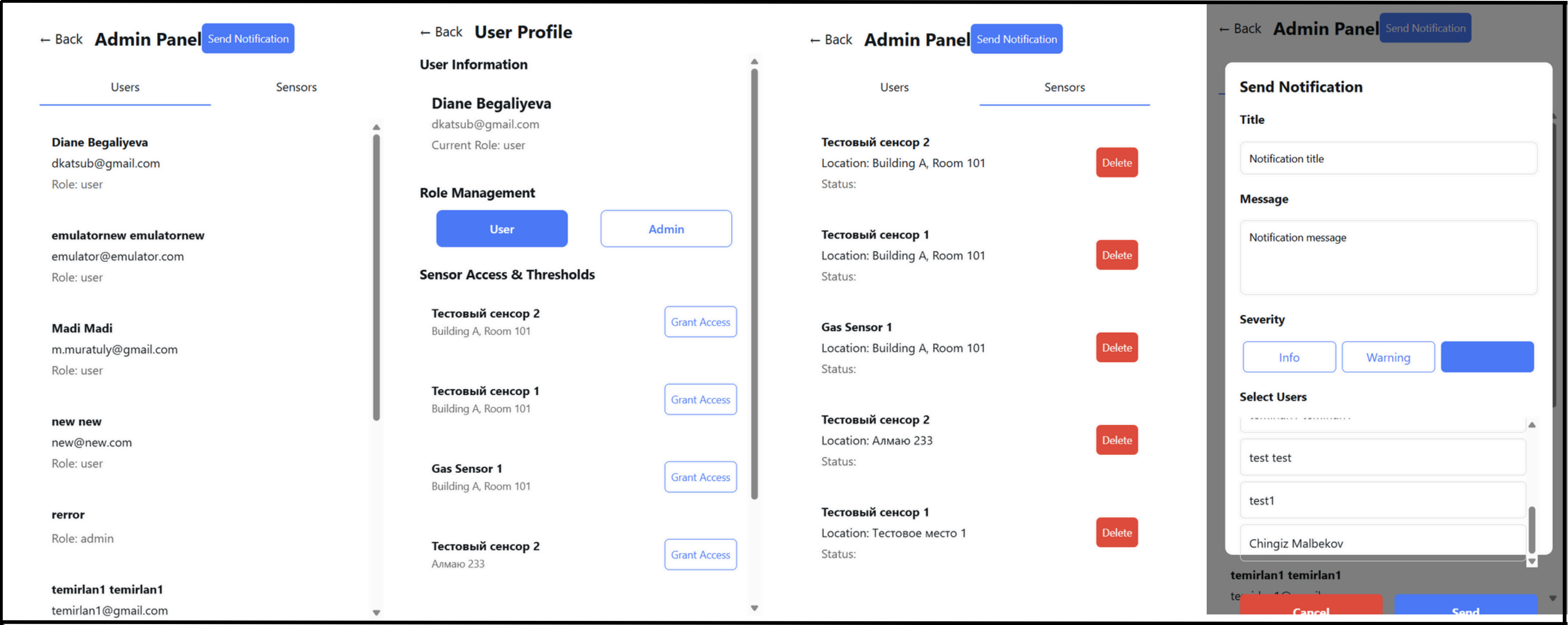temirlan1@gmail.com

Panel 2: User Profile

← Back **User Profile**

User Information

Diane Begaliyeva
dkatsub@gmail.com
Current Role: user

Role Management

User | Admin

Sensor Access & Thresholds

Тестовый сенсор 2
Building A, Room 101 — Grant Access

Тестовый сенсор 1
Building A, Room 101 — Grant Access

Gas Sensor 1
Building A, Room 101 — Grant Access

Тестовый сенсор 2
Алмаю 233 — Grant Access

Panel 3: Admin Panel (Sensors)

← Back **Admin Panel** Send Notification

Users | Sensors

Тестовый сенсор 2
Location: Building A, Room 101
Status: — Delete

Тестовый сенсор 1
Location: Building A, Room 101
Status: — Delete

Gas Sensor 1
Location: Building A, Room 101
Status: — Delete

Тестовый сенсор 2
Location: Алмаю 233
Status: — Delete

Тестовый сенсор 1
Location: Тестовое место 1
Status: — Delete

Panel 4: Send Notification

← Back **Admin Panel** Send Notification

Send Notification

Title
Notification title

Message
Notification message

Severity
Info | Warning |

Select Users

test test

test1

Chingiz Malbekov

temirlan1 temirlan1
te...la...1@...

Cancel | Send

Contacts

Phone: 8 (776) 006 19 08
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email: usualcarl@gmail.com