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KOMUNIKACJA API

1) Synchronizacja

W celu wysyłki danych na serwer należy po stronie serwera stworzyć **RESTful Webservice** (inaczej RESTful web API) z metodą **POST** np. <https://nexdiag.com/api/sync>, która będzie odbierać dane w formacie **application/json**:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }],
    }],
  }],
}
```

```
{
  "value": 23,
  "type": "Fe + Zn",
  "interpretation": 0,
  "date": 1528099313
},
{
  "value": 123,
  "type": "Al",
  "interpretation": 0,
  "date": 1528099313
}
],
{
  "placeId": 1,
  "data": [{
    "value": 234,
    "type": "Fe",
    "interpretation": 0,
    "date": 1528099313
  },
  {
    "value": 23,
    "type": "Fe",
    "interpretation": 0,
    "date": 1528099313
  },
  {
    "value": 123,
    "type": "Fe",
    "interpretation": 0,
    "date": 1528099313
  }
]
}
}]
}
```

Dane są wysyłane po każdym zapisie raportu lub historii pomiarów. Istnieje również możliwość ręcznej synchronizacji. Dane są wysyłane przyrostowo czyli tylko najnowsze dane, które zostały zapisane od ostatniej synchronizacji.

2) Zabezpieczenie

Istnieje możliwość zabezpieczenia dostępu do API poprzez dodanie Basic Auth.

API COMMUNICATION

1) Synchronization

In order to send data to the server, it is necessary to create a **RESTful Webservice** (or RESTful web API) on the server side with the **POST method**, eg. <https://nexdiag.com/api/sync>, which will receive data in the **application/json** format:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }],
    }],
  }],
}
```

```

    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Al",
      "interpretation": 0,
      "date": 1528099313
    }
  ],
  {
    "placeId": 1,
    "data": [{
      "value": 234,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    }
  ]
}

```

Data is sent after each report recording or measurement history. There is also the possibility of manual synchronization. Data is sent incrementally, that is, only the latest data that has been saved since the last synchronization.

2) Protection

It is possible to secure access to the API by adding Basic Auth.

API KOMMUNIKATION

1) Synchronisation

Um Daten an den Server zu senden, ist es notwendig, einen **RESTful Webservice** (oder RESTful Web API) auf der Serverseite mit der **POST-Methode** zu erstellen, z. <https://nexdiag.com/api/sync>, die Daten im Format **application/json** erhalten:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }],
    }],
  }],
}
```

```

    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Al",
      "interpretation": 0,
      "date": 1528099313
    }
  ],
  {
    "placeId": 1,
    "data": [{
      "value": 234,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    }
  ]
}

```

Daten werden nach jeder Berichtsaufnahme oder jedem Messverlauf gesendet. Es besteht auch die Möglichkeit der manuellen Synchronisation. Daten werden inkrementell gesendet, dh nur die letzten Daten, die seit der letzten Synchronisation gespeichert wurden.

2) Schutz

Es ist möglich, den Zugriff auf die API durch Hinzufügen von Basic Auth zu sichern.

API ИНТЕРФЕЙС

1) Синхронизация

Чтобы отправить данные на сервер, необходимо создать **RESTful Webservice** (или RESTful web API) на стороне сервера с помощью **метода POST**, например. <https://nexdiag.com/api/sync>, который получит данные в формате **application/json**:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }],
    }],
  }],
}
```



```

    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Al",
      "interpretation": 0,
      "date": 1528099313
    }
  ],
  {
    "placeId": 1,
    "data": [{
      "value": 234,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    }
  ]
}

```

Данные отправляются после каждой записи отчета или истории измерений. Существует также возможность ручной синхронизации. Данные отправляются постепенно, то есть только последние данные, сохраненные с момента последней синхронизации.

2) Защита

Можно обеспечить доступ к API, добавив Basic Auth.

KOMUNIKACE API

1) Synchronizace

Aby bylo možné odesílat data na server, je nutné na straně serveru vytvořit službu **RESTful Webservice** (nebo RESTful web API) pomocí **metody POST**, např. <https://nexdiag.com/api/sync>, která bude přijímat data ve formátu **aplikace/json**:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }],
    }],
  }],
}
```

```

    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Al",
      "interpretation": 0,
      "date": 1528099313
    }
  ],
  {
    "placeId": 1,
    "data": [{
      "value": 234,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    }
  ]
}

```

Data jsou odeslána po každém záznamu záznamu nebo historii měření. Existuje také možnost manuální synchronizace. Data jsou posílána postupně, tj. Pouze poslední data, která byla uložena od poslední synchronizace.

2) Ochrana

Přístup k rozhraním API je možné zabezpečit přidáním položky Basic Auth.