**General Description**

The project is about the creation of the platform, the main purpose of which is to allow **Insurance Companies to** transfer information about insurance contracts to the database (AES encryption is required), using which **Insured clients** will be able to find out information about their insurance contracts.

**Glossary**

1. **Platform (also System) -** exactly this particular application that is going to be developed.

1. **Insurance company** - a physical company that provides insurance services and creates insurance contracts with [**Insured clients**](#xab8zrpj6obn)**.**

Within the [**platform**](#gzfb1iju9rcp) - an Entity and the User type that is being created by the **Admin** of the [**platform**](#gzfb1iju9rcp).

1. **Insured client -** a physical person, that signs an [**insurance contract**](#9e3x0aj30072) with the **Insurance company.**

Within the [**platform**](#gzfb1iju9rcp) is called the **Client.**

1. **Insurance Contract -** a document that is being signed between the [**Insurance company**](#pqbumh894aad)and the [**Insured clients**](#xab8zrpj6obn)**.**Within the [**platform**](#gzfb1iju9rcp) is an entity that is being created automatically or manually by [**Insurance companies**](#pqbumh894aad).

1. **Unique Insurance Contract ID**  - a unique number, that is being automatically assigned to each [**Insurance Contract**](#9e3x0aj30072) that is being uploaded to the [**system**](#gzfb1iju9rcp). **Unique Insurance Contract ID** should be a SHA256 token (generated by a few fields of the policy data) that identifies the contract uniquely.
2. **Request -** process, executed by the Client to receive **Insurance Contract** information.

1. **Token** - entity that can be purchased by the Insurance Company and allows them to upload contracts to the system. 1 **token** allows [**Insurance companies**](#pqbumh894aad) to upload 1 **Insurance Contract** to the system (no matter - automatic upload or manual).

**User Roles**

1. [**Insurance Company**](#khr21klrjmid)
2. [**Insurance Agency**](#50hj7vrpu3np)
3. [**Client**](#vy8x5pxwraoc)
4. [**Admin**](#qfoz0l9o4ext)

**Use Cases for the Client user**

**The language of the page should be changed according to the default language of the Client’s browser**

1. **Requesting** the information about the status of the [**Insurance Contract**](#9e3x0aj30072) (separate page)
   1. Choose the [**Insurance Company**](#pqbumh894aad)title from the dropdown
      1. Here should be the list of all the [**Insurance Companies**](#pqbumh894aad)which are created by the **Admin** in the system.
   2. Fill in the **Policy Number**
   3. Fill in the **Tax Identification Number**
   4. Click the “Where I can find a Policy Number” button
      1. The popup should appear with the PDF or Image, uploaded by the Admin and assigned to the particular [**Insurance company**](#pqbumh894aad)
   5. As a result, the [**client**](#xab8zrpj6obn) will see the popup with the information:
      1. If the information was filled incorrectly or there’s no [**Insurance Contract**](#9e3x0aj30072) related to the information filled in, shows “Insurance information filled incorrectly or the insurance [**Insurance Contract**](#9e3x0aj30072) is not in the database”
      2. If the information was filled correctly and there’s a corresponding [**Insurance Contract**](#9e3x0aj30072) present in the database, show:
         1. [**Insurance company**](#pqbumh894aad)title
         2. **The expiration date** of the [**Insurance Contract**](#9e3x0aj30072)
            1. If the [**Insurance Contract**](#9e3x0aj30072) was re-signed after the expiration date, a popup should show only the last relevant expiration date.

**Use Cases for the Insurance Company user**

[**Insurance companies**](#pqbumh894aad)should be able to request (manually, using the Email of the owner of the [**platform**](#gzfb1iju9rcp)) private API keys to use for the purpose of the automatic transferring of [**Insurance Contract**](#9e3x0aj30072) information that is being uploaded to the [**company**](#pqbumh894aad) software directly to the [**Platform**](#gzfb1iju9rcp). Information to be transferred and saved on the [**Platform**](#gzfb1iju9rcp):

* policy number
* tax identification number of the insured
* start date of the [**Insurance Contract**](#9e3x0aj30072);
* end date of the [**Insurance Contract**](#9e3x0aj30072);
* country of the insured/[**Insurance Contract**](#9e3x0aj30072);

1. **Log in to** the personal account - using the Tax ID of the company and password (received from the Admin outside of the platform).
   1. See/Update [**Insurance compan**](#pqbumh894aad)**y** information
      1. **Title** of the **Insurance company** (Not-Editable)
      2. Logo (Not-Editable)
      3. **Tax ID** of the **Insurance company** (Not-Editable)
      4. Phone number of the Company for assistance (Editable)
      5. Legal address (Not-Editable)
      6. Insurance Identification Number (Not-Editable)
      7. **A person responsible** for the process
         1. Name (Editable)
         2. Position (Editable)
         3. Telephone number (Editable)
         4. Email (Editable)
   2. [**Tokens**](#o8xnxi5s5nsc) section:
      1. See the purchase history of transactions that indicates:
         1. **Number** of [**Tokens**](#o8xnxi5s5nsc) purchased
         2. **The IP address** from which the purchase was made
         3. **Time** of the purchase
         4. **Date** of the purchase
      2. Counter of **Insurance Contracts** uploaded with a choice of the timeframe.
      3. Purchase [**Tokens**](#o8xnxi5s5nsc) 
         1. Insurance companies should be able to purchase a number of tokens by choosing the bundle of [**Tokens**](#o8xnxi5s5nsc) (10,000 50.000 100,000 pics.) or by indicating the number of [**Tokens**](#o8xnxi5s5nsc) required in a text field.
   3. Actions to[**Insurance Contract**](#9e3x0aj30072)**s**
      1. **See the list** of [**Insurance Contract**](#9e3x0aj30072) which were uploaded to the [system](#gzfb1iju9rcp) with the indication:
         1. Policy Number
         2. IP address, from which the [**Insurance Contract**](#9e3x0aj30072) information was uploaded.
         3. Date of the upload
         4. Time of the upload
      2. **View** detailed information about each particular [**Insurance Contract**](#9e3x0aj30072):
         1. policy number
         2. start date of the [**Insurance Contract**](#9e3x0aj30072);
         3. end date of the [**Insurance Contract**](#9e3x0aj30072);
         4. country of the insured/[**Insurance Contract**](#9e3x0aj30072);
      3. **Upload** the [**Insurance Contract**](#9e3x0aj30072):
         1. Fill in the information about the [**Insurance Contract**](#9e3x0aj30072):
            1. policy number
            2. start date of the [**Insurance Contract**](#9e3x0aj30072);
            3. end date of the [**Insurance Contract**](#9e3x0aj30072);
            4. country of the insured/[**Insurance Contract**](#9e3x0aj30072);
         2. Fill in the telephone number
            1. After filling in the telephone number, the confirmation code will be sent to this number, if it’s connected to this particular [**Insurance Company**](#pqbumh894aad).
            2. If the telephone number is not related to this particular [**Insurance company**](#pqbumh894aad), show an error message.

* 1. **Reporting Tool**:
     1. **The insurance company** should receive a CSV with the information about [**the Insurance Contract**](#9e3x0aj30072), which was uploaded for the following period of time to the Email, that mentioned for the Responsible Person:
        1. Daily
        2. Weekly
        3. Monthly
     2. These reports contain:
        1. Policy Number of the [**Insurance Contract**](#9e3x0aj30072)
        2. Start Date of the [**Insurance Contract**](#9e3x0aj30072)

**Use cases for Insurance Agency -** same as for **Insurance Company**, but cannot purchase tokens and indicates the **Associated Insurance Company** in the personal dashboard. Uses the same API as an **Associated Insurance Company - contracts sent by this Agency should be uploaded on behalf of the Associated Insurance Company.**

**Use Cases for the Admin user**

1. Log in to the personal dashboard
2. Actions with [**Insurance Companies**](#pqbumh894aad):
   1. **See** the list of already existing [**Insurance Companies**](#pqbumh894aad)
   2. **View/Update** information about each particular [**Insurance company**](#pqbumh894aad)
   3. **Create a** New [**Insurance company**](#pqbumh894aad):
      1. Title of the **Insurance company**
      2. Logo
      3. Tax ID of the **Insurance company**
      4. Password
      5. **Phone number** of the **Insurance company** for assistance
      6. Legal address
      7. **A person responsible** for the process
         1. Name
         2. Position
         3. Telephone number
         4. Email
      8. Assign the **policy number format**
         1. Each particular [**Insurance Company**](#pqbumh894aad) can have a different **format** of the **policy number**
            1. for ex. “123456”, “A1B23BC”, “A-12-B-11”, etc.
         2. When the [**client**](#xab8zrpj6obn) chooses the [**Insurance Company**](#pqbumh894aad)title from the dropdown, the **Policy Number** field should have an applied format of the number related to this particular [**Insurance Company**](#pqbumh894aad).
            1. For ex. if chosen “Starlight Insurance”, the **Policy Number** field should have a **format** of “XX-XXX-XX”, when the “Miami Guarrant” is chosen, **Policy Number** field should have a **format** of “XXXXXXXXXX”
      9. Assign **trusted Telephone Numbers**:
         1. Considers a list of **Telephone numbers**, using which the **manual uploading** of the [**Insurance Contract**](#9e3x0aj30072) will be possible.
      10. Assign a number of available [**Tokens**](#o8xnxi5s5nsc).
      11. Attach an example of the [**Insurance Contract**](#9e3x0aj30072) - PDF or image.
          1. It will be shown when the client will click “Where I can find Policy Number”.
3. Actions with [**Insurance Contract**](#9e3x0aj30072):
   1. **See** the list of [**Insurance Contract**](#9e3x0aj30072) which were uploaded to the [**system**](#gzfb1iju9rcp) with the indication:
      1. Policy number
      2. [**Insurance Company**](#pqbumh894aad) Title
      3. [**Insurance Company**](#pqbumh894aad) Logo
      4. IP address, from which the [**Insurance Contract**](#9e3x0aj30072) information was uploaded.
      5. Date of the upload
      6. Time of the upload
   2. **View** detailed information about each particular [**Insurance Contract**](#9e3x0aj30072):
      1. [**Unique Insurance Contract ID**](#42orucq6ur2i)
      2. policy number
      3. start date of the contract;
      4. end date of the contract;
      5. country of the insured/contract;
   3. **NO Create/Delete function required**
      1. [**Insurance Contract**](#9e3x0aj30072) information should be stored in the database for 10 years from the last expiration date.
4. **Changelog** section:
   1. Actions with [**Insurance Contract**](#9e3x0aj30072)**s** uploaded:
      1. A **list**, that indicates all the [**Insurance Contract**](#9e3x0aj30072), which were uploaded to the [**system**](#gzfb1iju9rcp) with the following information:
         1. [**Unique Insurance Contract ID**](#42orucq6ur2i)
         2. Policy number
         3. [**Insurance Company**](#pqbumh894aad)Title
         4. IP address, from which the contract information was uploaded.
         5. Date of the upload
         6. Time of the upload
      2. Has a **Search option** by
         1. Policy Number
         2. IP
         3. Date of the upload
      3. Has a **Filtering option** by the [**Insurance Company**](#pqbumh894aad)(dropdown)
      4. Has a **Sorting option** by Time/Date
         1. Oldest->Newest
         2. Newest->Oldest
   2. Actions with [**Requests**](#kix.rhqy7ao0vqr9)

**From each particular IP address, no more than 60 requests per hour are allowed**.

* + 1. A **list**, that indicates all the [**Requests**](#kix.rhqy7ao0vqr9), which were sent to the [**system**](#gzfb1iju9rcp) with the following information:
       1. [**Insurance Company**](#pqbumh894aad)Title
       2. [**Unique Insurance Contract ID**](#42orucq6ur2i)
       3. Policy number
       4. IP address, from which the contract information was uploaded.
       5. Date of the [**Request**](#kix.rhqy7ao0vqr9)
       6. Time of the [**Request**](#kix.rhqy7ao0vqr9)
    2. Has a **Search option** by
       1. **Policy number**
       2. IP
       3. Date of the [**Request**](#kix.rhqy7ao0vqr9)
    3. Has a **Filtering option** by the [**Insurance Company**](#pqbumh894aad)(dropdown)
    4. Has a **Sorting option** by Time/Date
       1. Oldest->Newest
       2. Newest->Oldest
  1. Actions with **Languages**:
     1. See the **list** of already existing languages
     2. **Edit** separate phrases in each particular translation
     3. **Create** new translations
     4. **Delete** existing translations.
  2. **Reporting Tool**:
     1. Admin should receive a CSV with the information about [**the Insurance Contract**](#9e3x0aj30072)**s**, which were uploaded for the following period of time:
        1. Daily
        2. Weekly
        3. Monthly
     2. These reports contain:
        1. Policy Number of the [**Insurance Contract**](#9e3x0aj30072)
        2. Start Date of the [**Insurance Contract**](#9e3x0aj30072)
        3. [**Insurance Company**](#pqbumh894aad) title