G-SIGN IP
PATENT APPLICATION PROCESS

USER GUIDE

TÜRKSAT

Funded by the European Union

NGI SARGASSO

1 About the Project...

The G-SIGN-IP (Global Smart InterGovernment Network for Secure Data Exchange Piloting for Intellectual Property Service) project aims to ensure secure, transparent, and efficient data exchange in the field of intellectual property.

Project Purpose

Its main goal is to digitalize international patent application processes, enabling users to securely perform identity verification, authorization, and information sharing between institutions in different countries.

Within this scope, the project integrates blockchain and artificial intelligence (AI) technologies to enhance data security and increase efficiency by automating application processes.
The project is carried out under the NGI Sargasso program, funded by the European Commission, with the purpose of fostering collaboration between the European Union, the United States, and Canada in the field of Next Generation Internet (NGI) technologies.

Project Scope

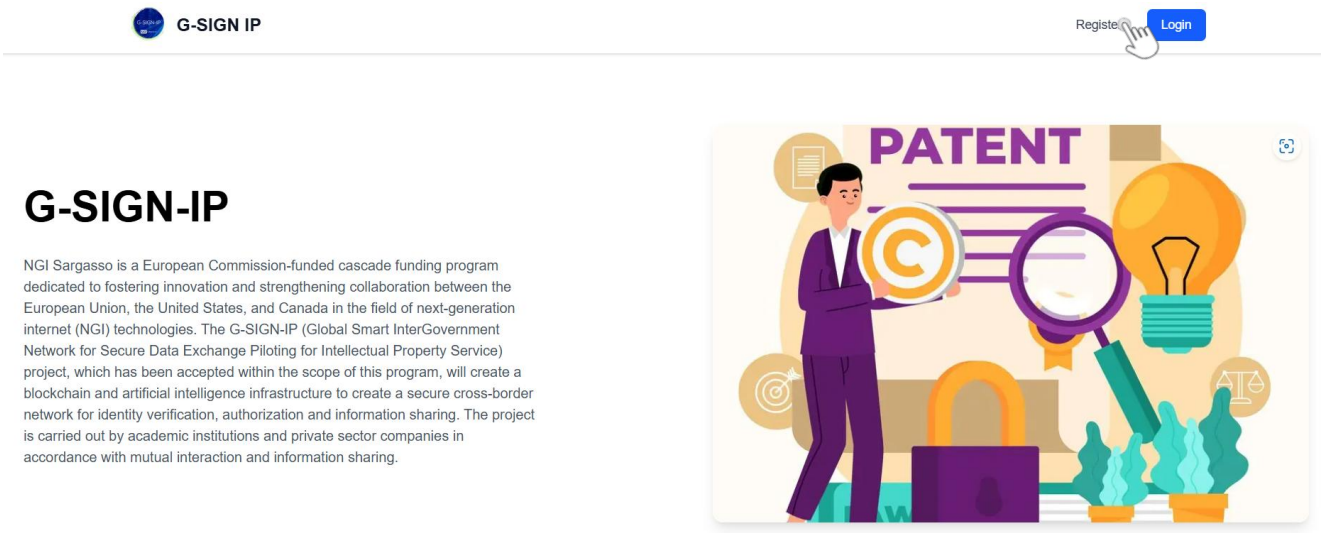
- Digital submission and management of patent applications
- AI-supported analysis of similar or related patents
- Blockchain-based identity verification and data Exchange.
- Process automation through smart contracts
- Secure cross-border data flow among international systems

Important Information and Restrictions

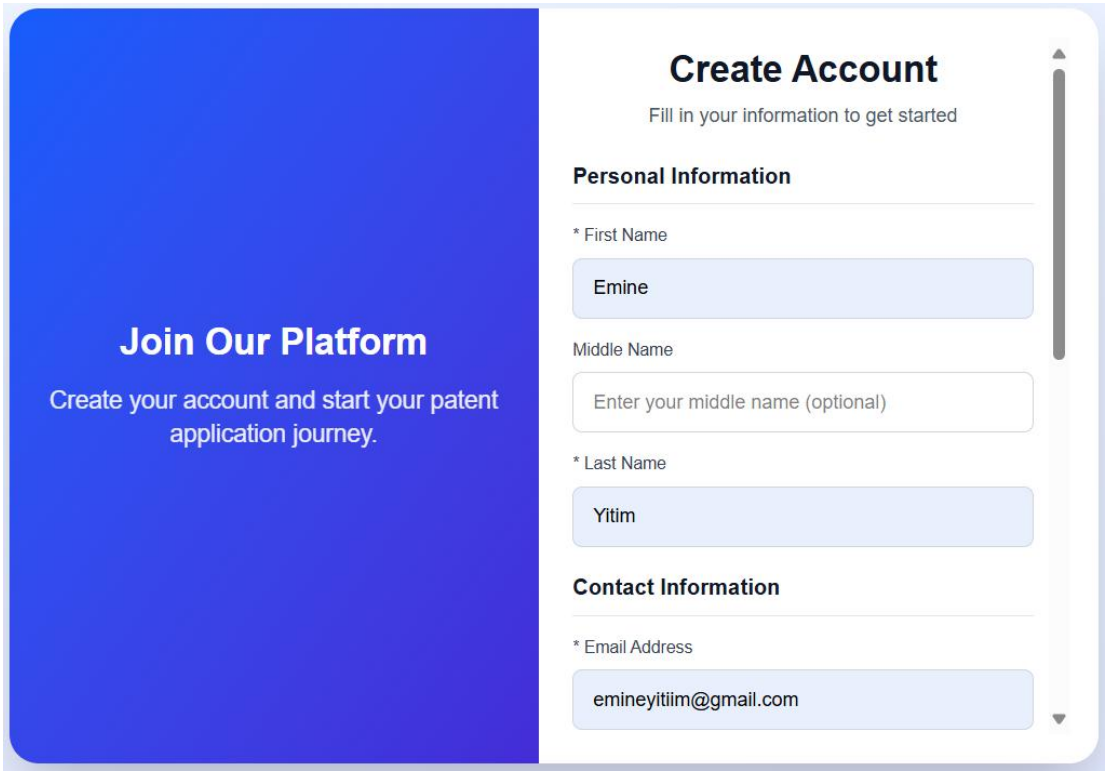
- It is mandatory to log in to the G-SIGN-IP platform to use the system.
- Each application must include at least one applicant and one inventor.
- Once submitted, the application content cannot be modified within the system.
- Users may cancel their application at any time; however, no refund will be issued.
- The U.S. system operates under the “first-to-file (AIA)” principle, meaning that the first applicant obtains the protection right.
- Each claim must be technically clear, precise, and supported by drawings.
- Application files must be uploaded in PDF format only.
- The system currently supports non-provisional patent applications only.
- If the user exits before completing the application, the entered data will be saved automatically.
- Once the application is completed and the fee is paid, the application cannot be updated.

2 System Login

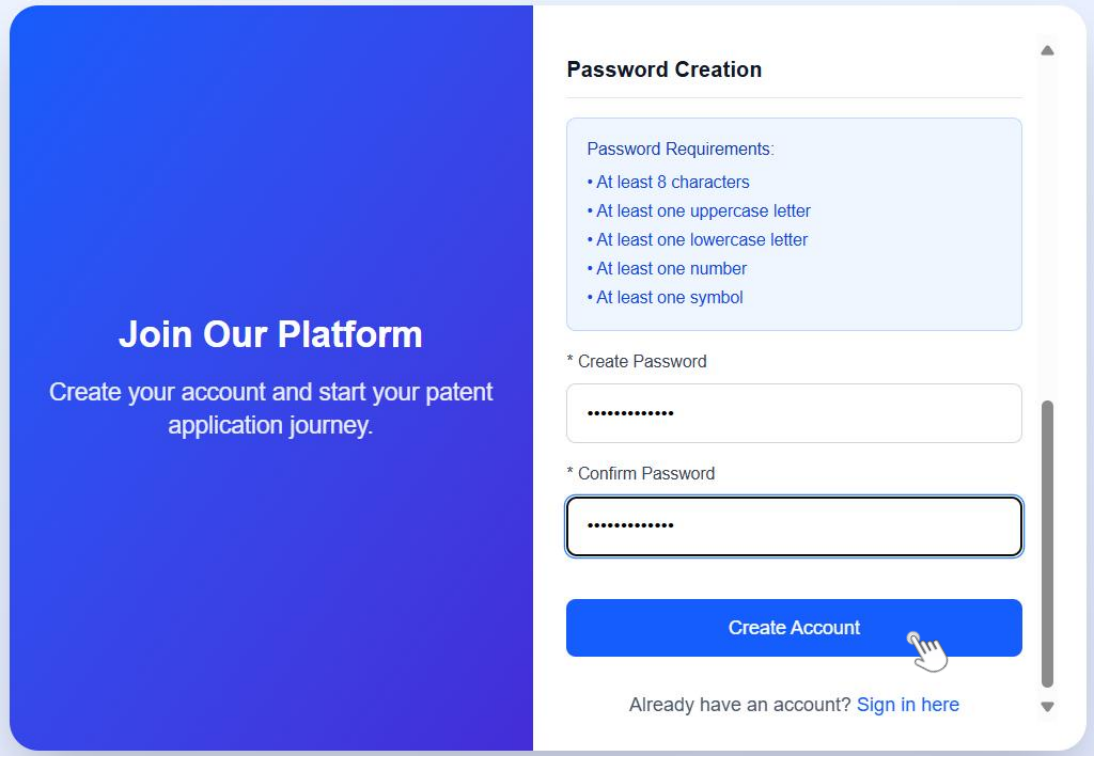
- The system is a web-based platform. To access the system, users must first click on the provided link (**[https://gsign.turksat.com.tr/]**).



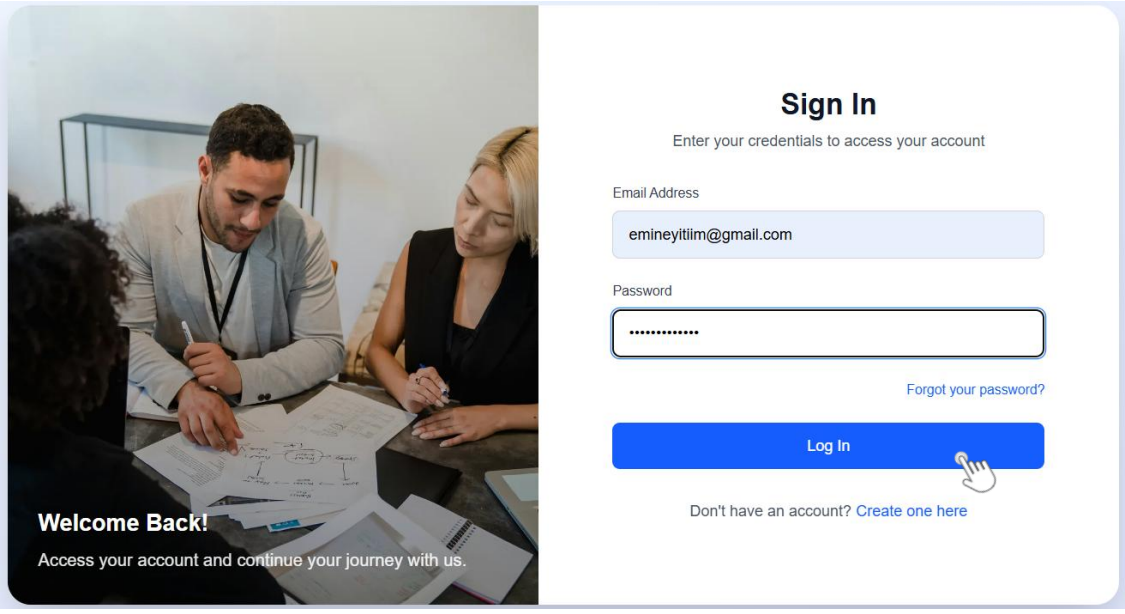
- If the user does not have an existing account, they should complete the "**Register**" process.



2 System Login

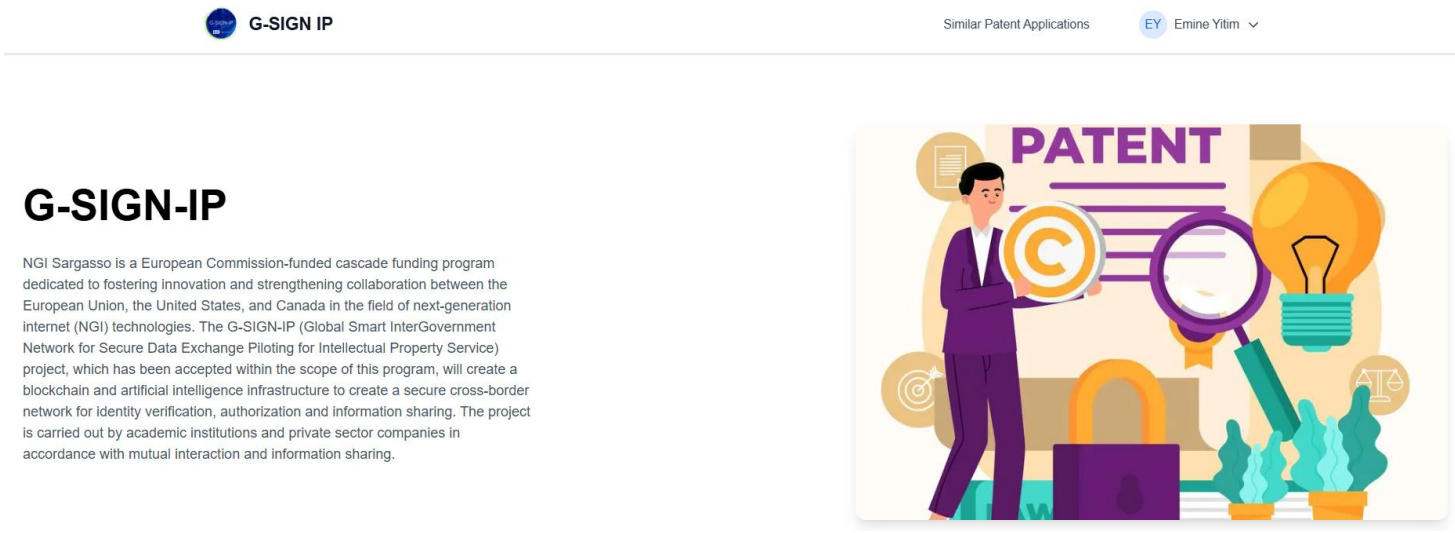


- If the user has not previously created an account, they must fill in the required fields in the registration form and click the "**Create Account**" button.
- The user can log in to the system using the **email address** and **password** provided during the registration process.



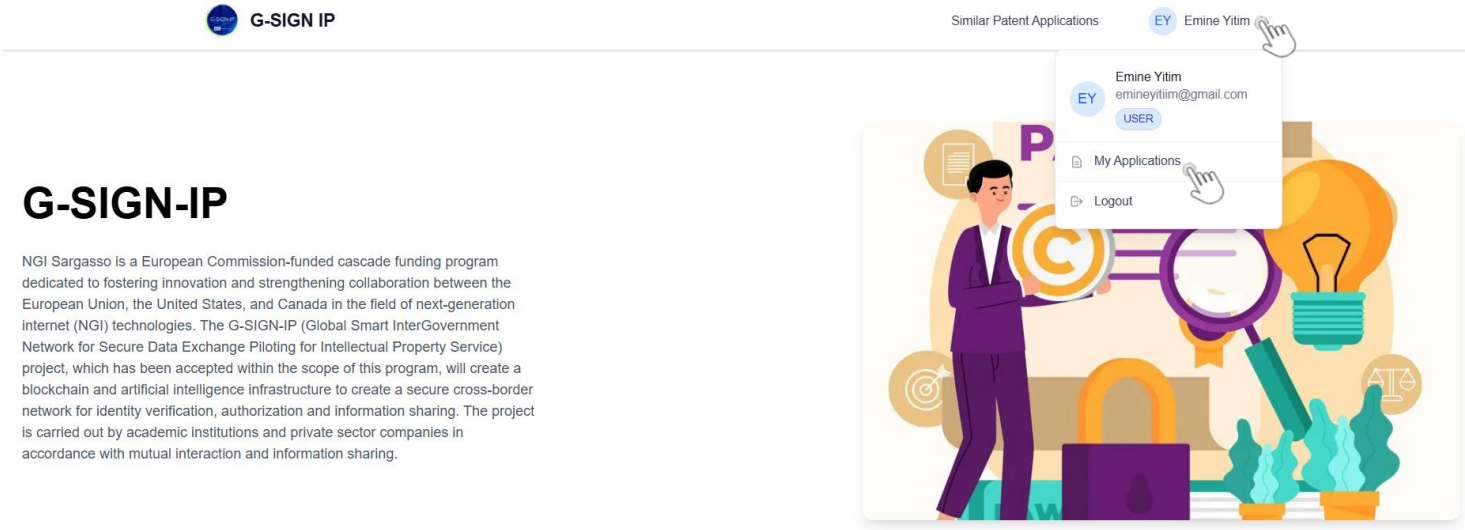
2 System Login

- The user clicks the “**Log In**” button to access their personal application portal.

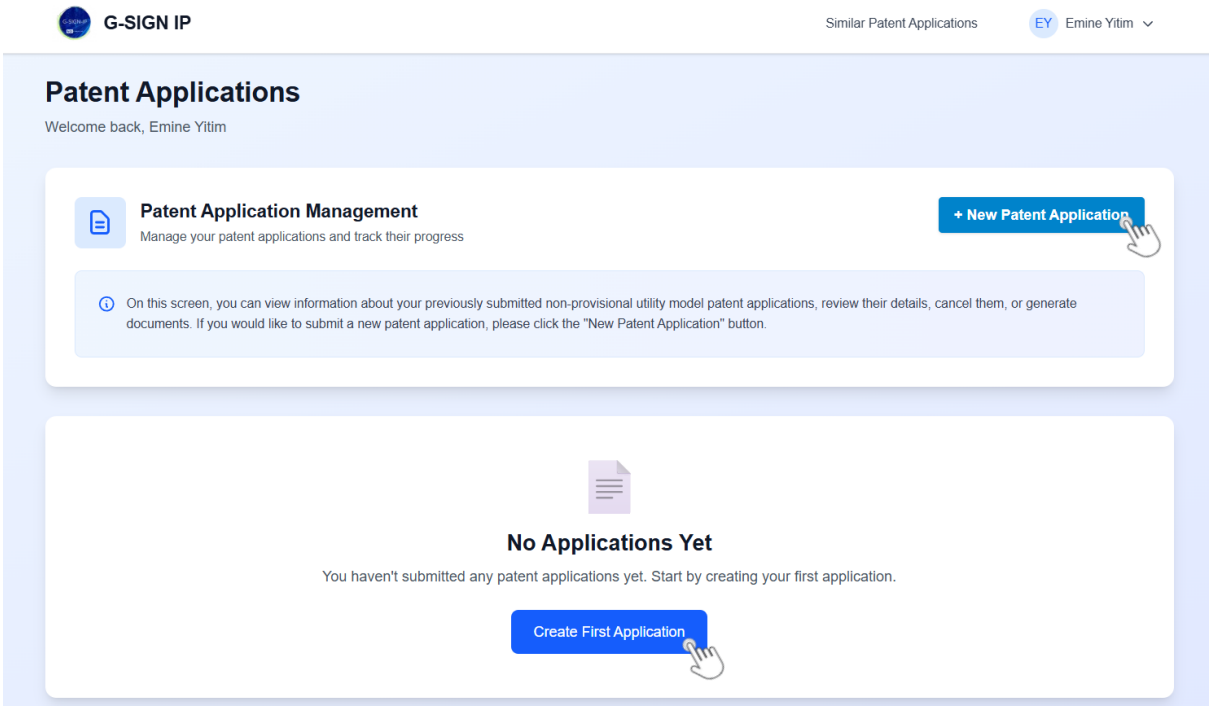


3 Patent Application Process

- After logging into the system, the user selects the “**My Applications**” tab from the user menu located at the top of the screen.



- If the user does not have any registered patent applications in the system, a warning message is displayed on the screen.
- On this page, the user can start the patent application process by clicking either the “**New Patent Application**” or “**Create First Application**” button.

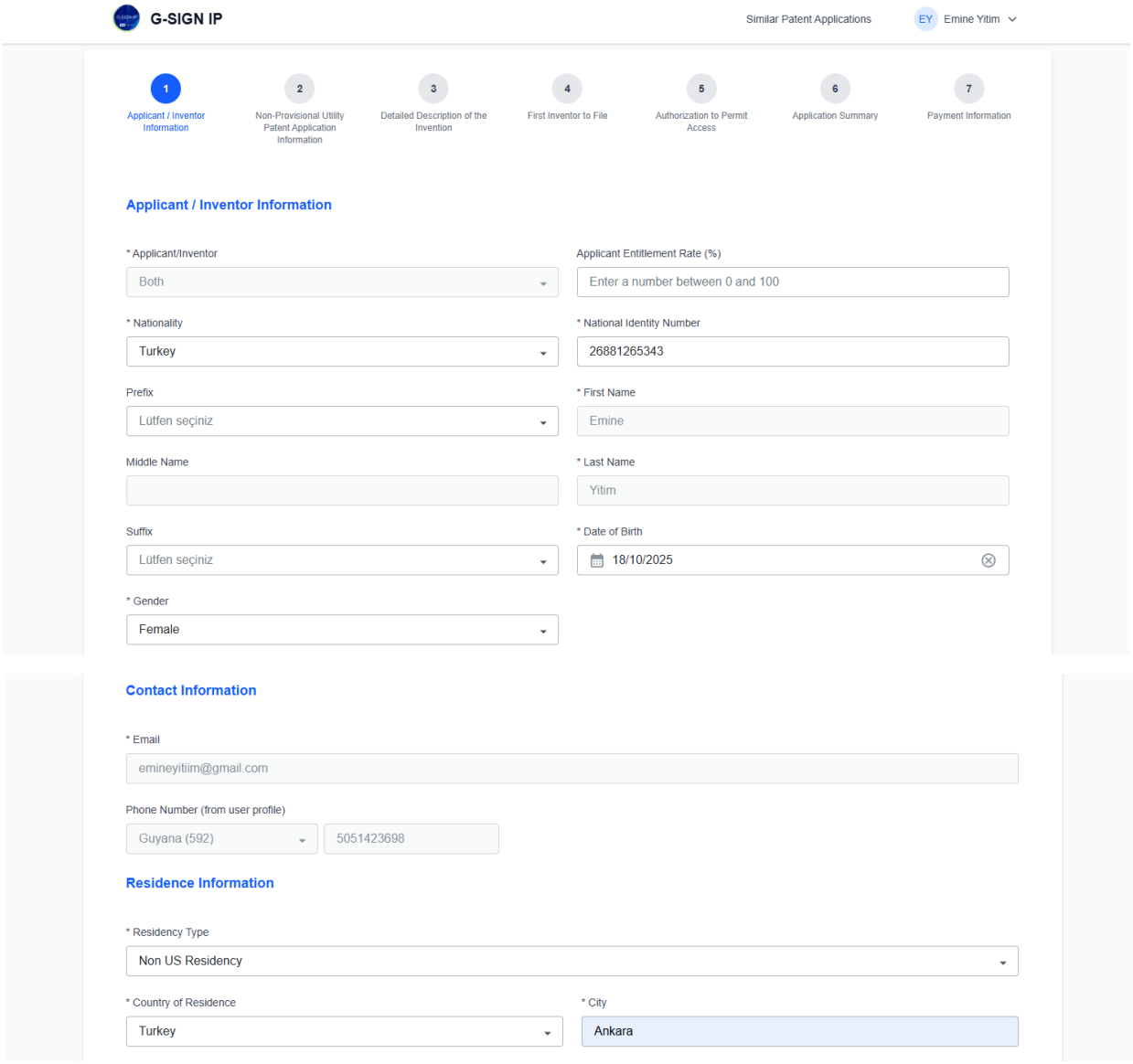


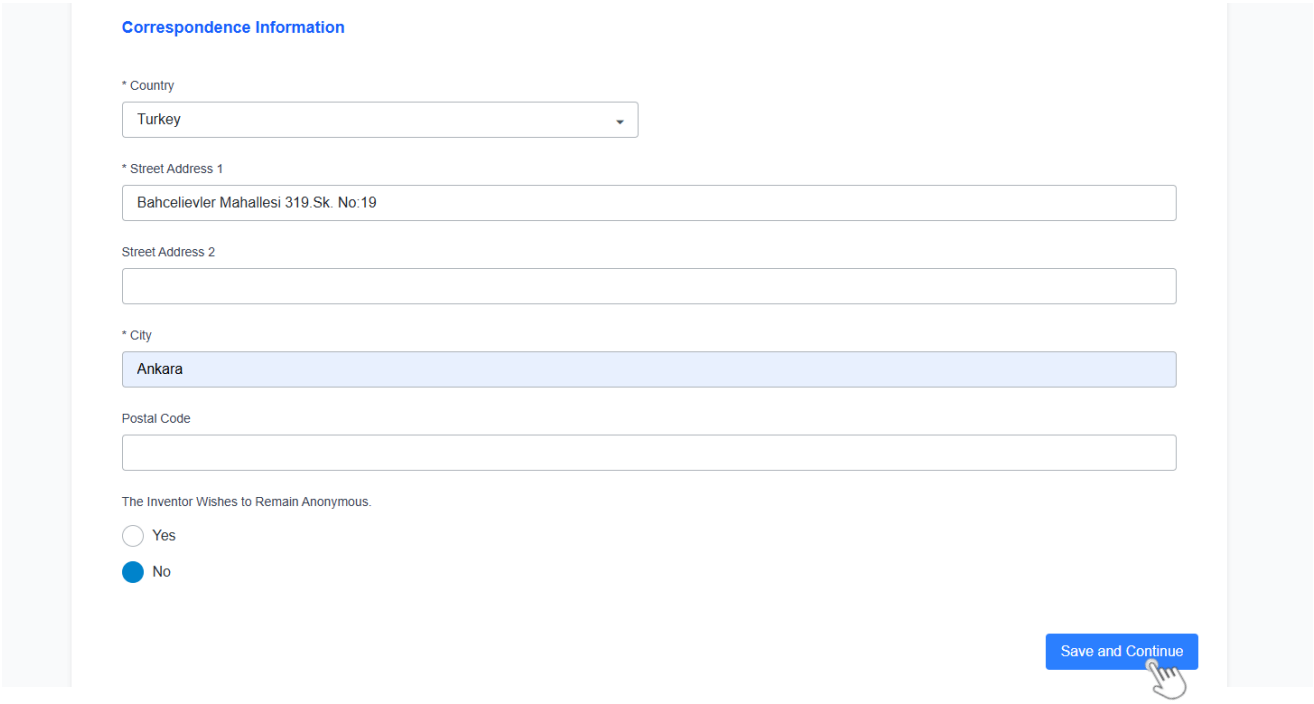
3 Patent Application Process

The patent application process consists of **7 steps**.

1. Applicant / Inventor Information

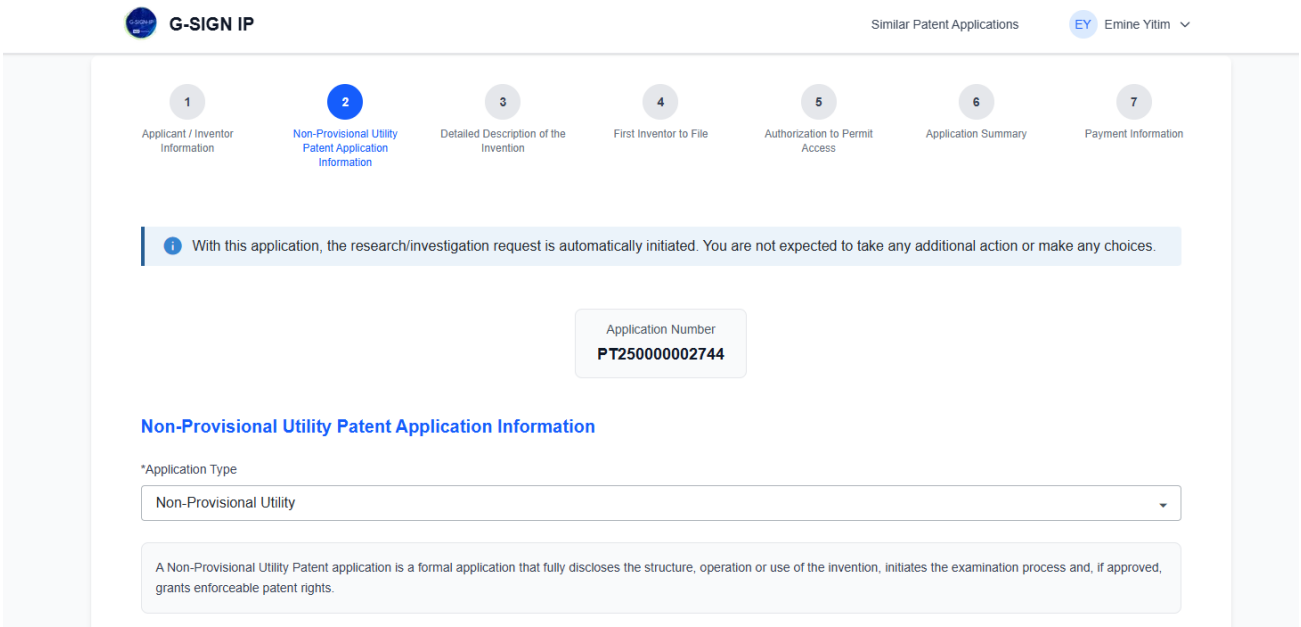
In the first step, the “Application / Inventor Information” form is completed, and the user clicks the “**Save and Continue**” button.

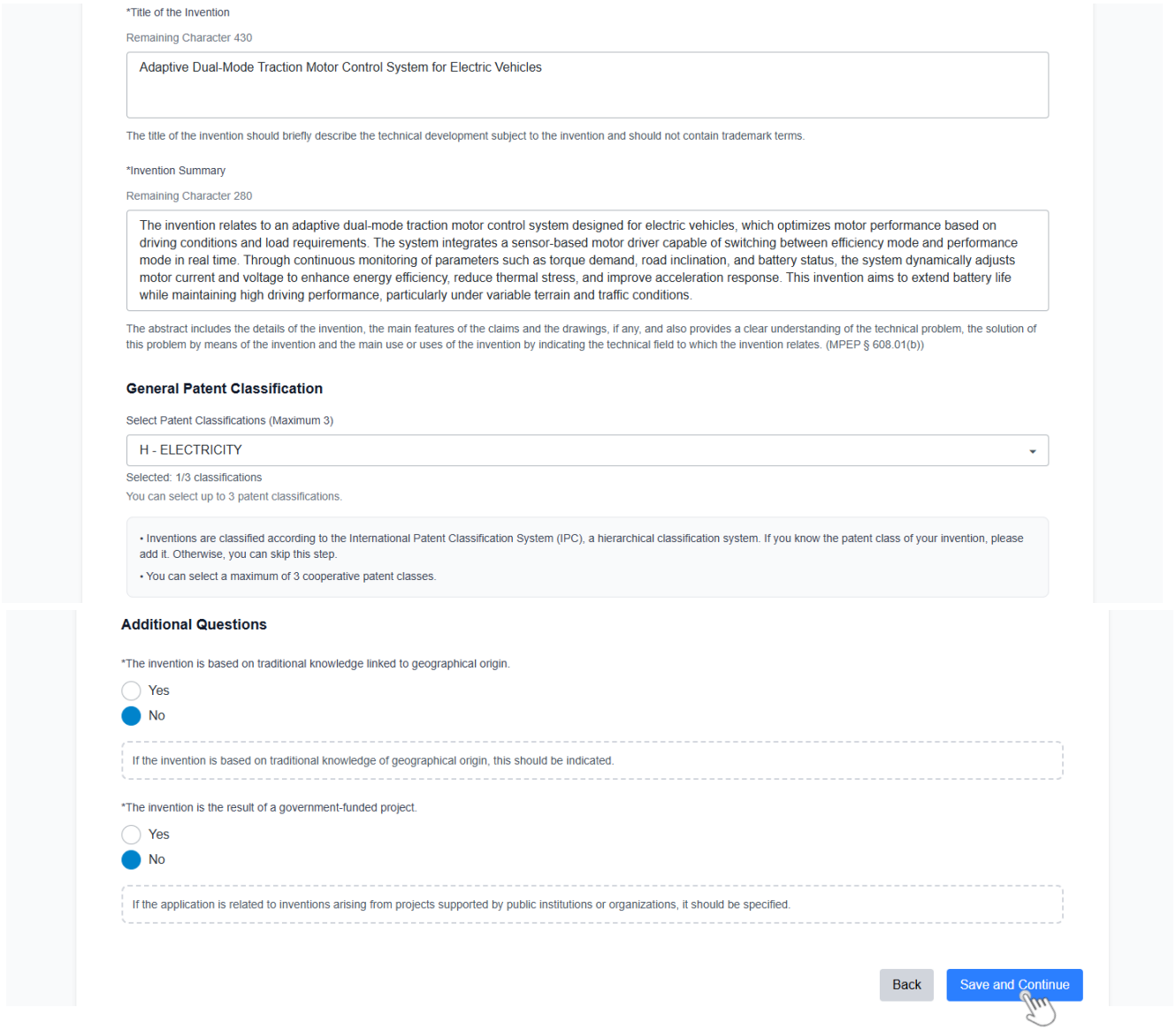




2. Non-Provisional Utility Patent Application Information

- When the user fills in the "Applicant / Inventor Information" and clicks the "**Save and Continue**" button, the system automatically assigns an "**Application Number.**"
- After filling in the required fields in the application, click the "**Save and Continue**" button.

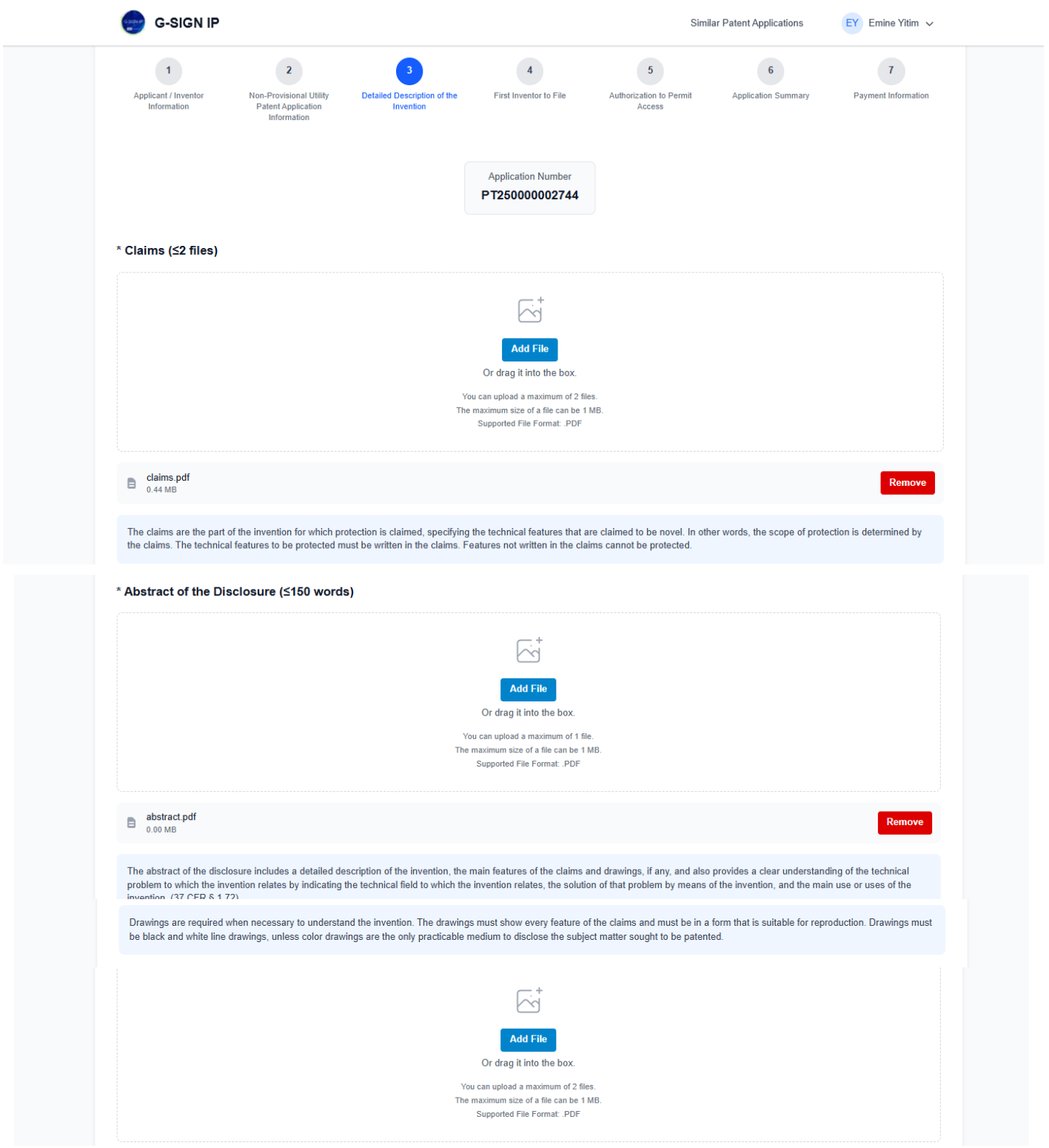


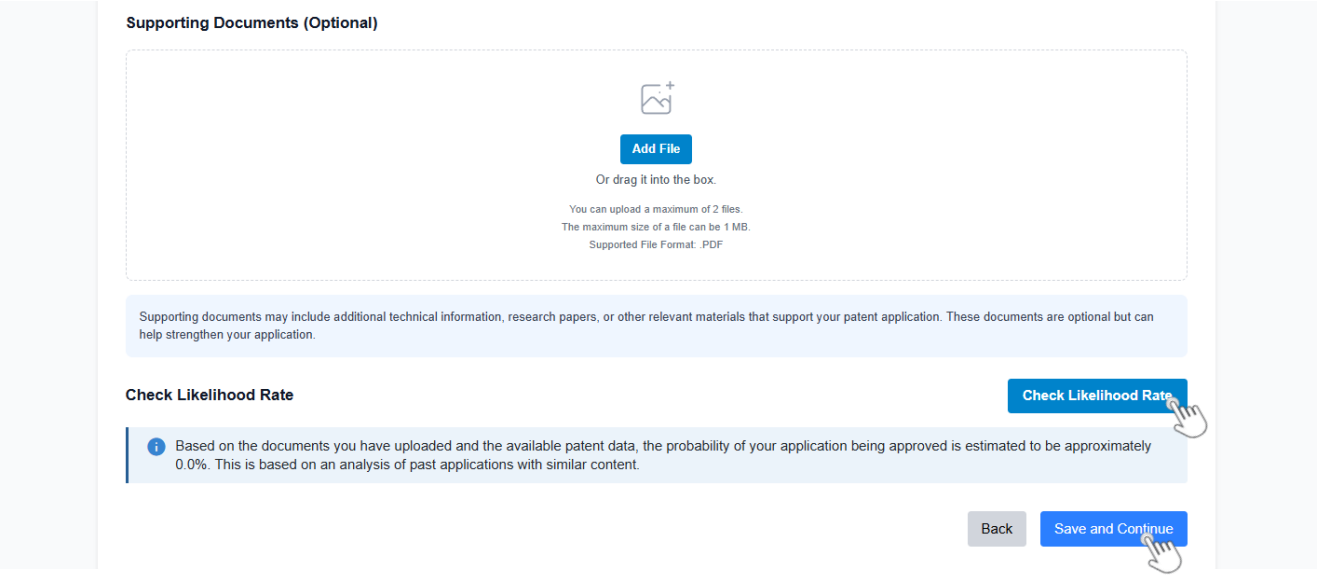


3. Detailed Description of the Invention

- In the third step, the **required documents** related to the patent application content and details are uploaded to the system.
- The user clicks the "**Check Likelihood Rate**" button to see the probability of approval for their application.
- If desired, the user can review and edit the content of the uploaded documents.
- To proceed, the user clicks the "**Save and Continue**" button.

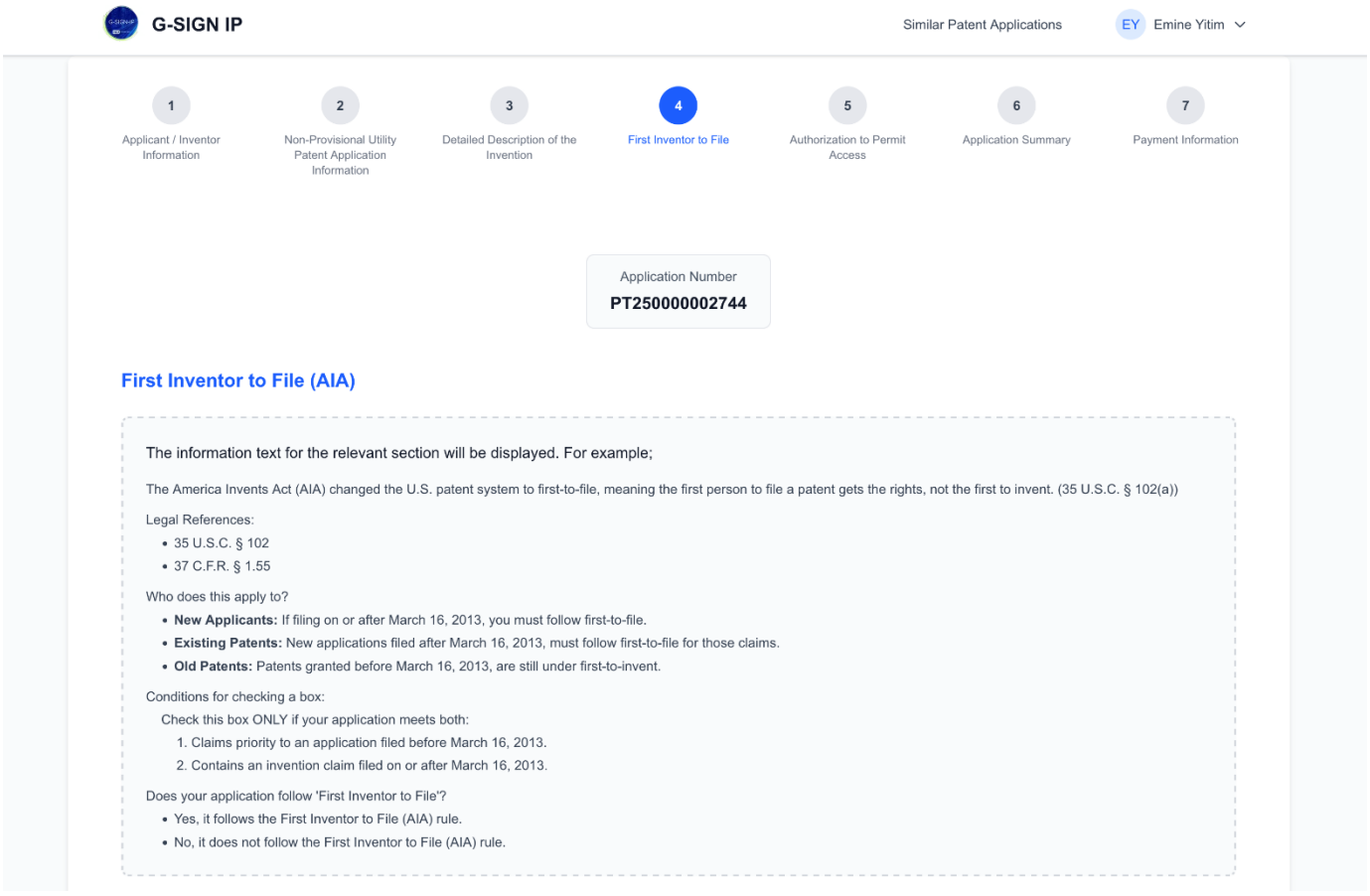
3 Patent Application Process

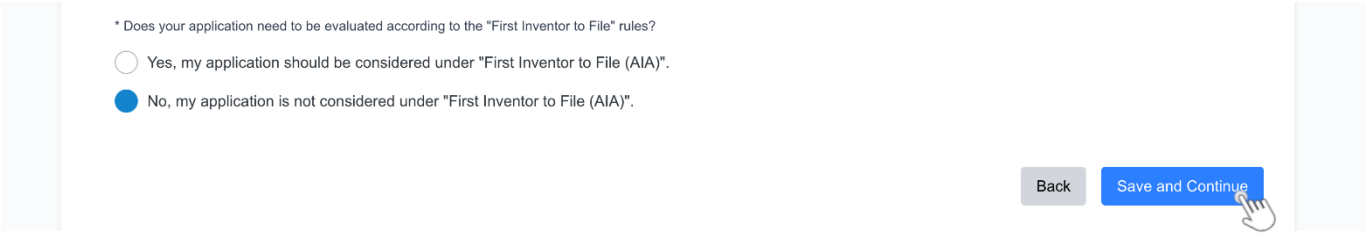




4. First Inventor to File

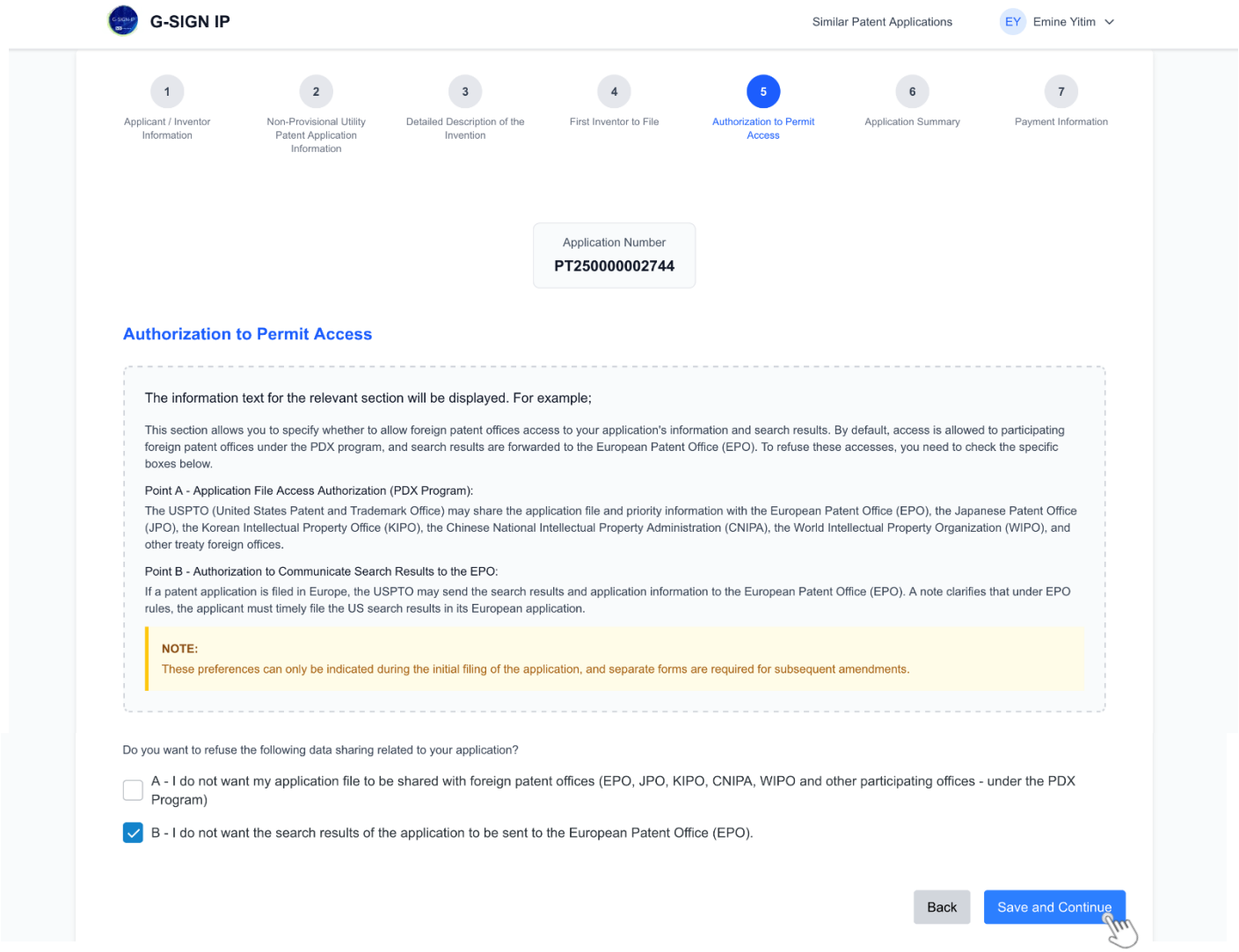
The “First Inventor to File” step is used to determine the priority of the patent application; the user must enter their information accurately as the first applicant.





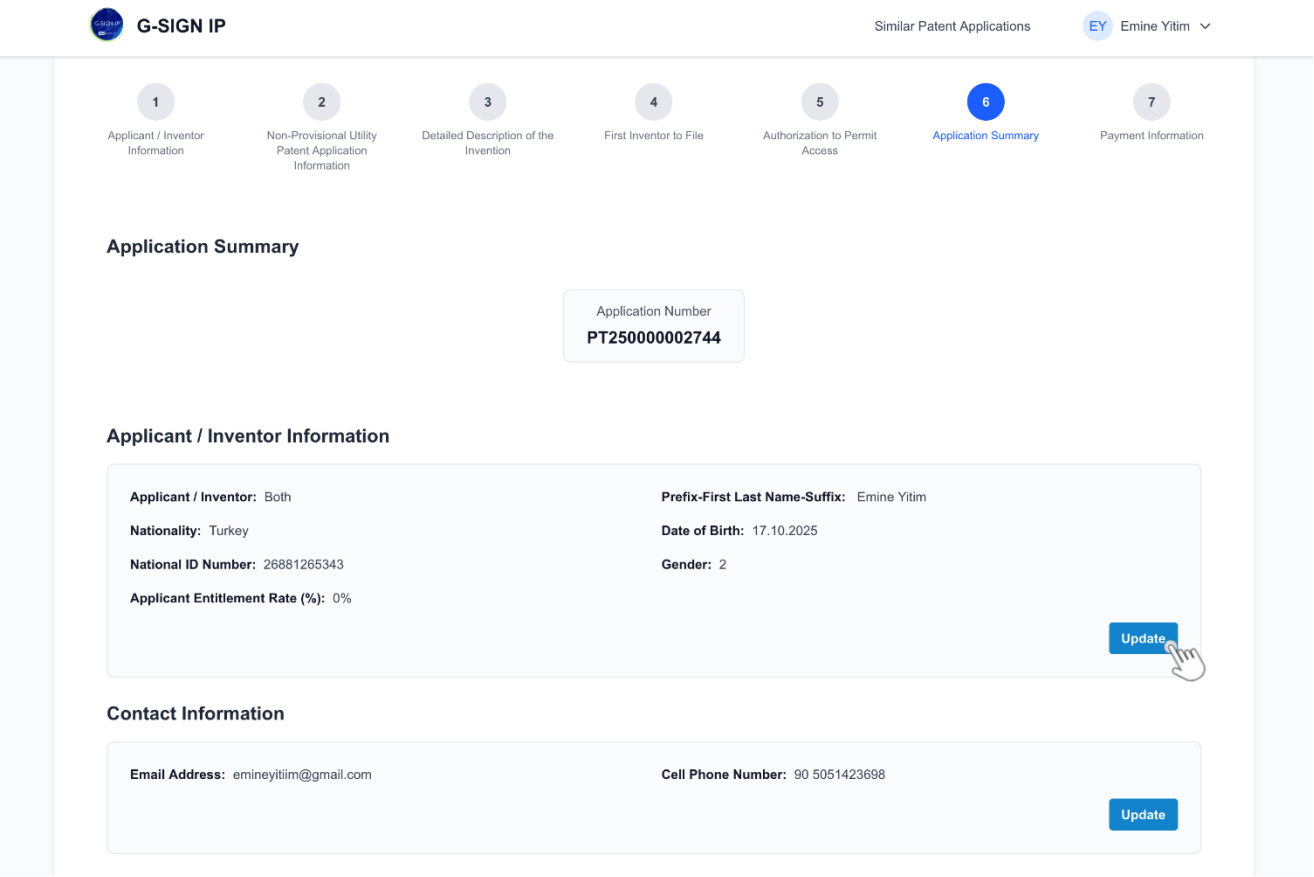
5. Authorization to Permit Access

The “Authorization to Permit Access” step allows the user to grant access to certain documents or information within the system; the user must provide the necessary permissions correctly.



6. Application Summary

- On the Application Summary page, all information entered during the application process is displayed.
- If the user wishes to update any information, they can click the "**Update**" button to make changes.
- The user can click the "**Download**" button to download and review the contents of the uploaded documents.
- To proceed, the user must carefully read the information texts regarding **Office Education** and **Payment Information** at the bottom of the page, accept the terms, and then click the "**Save and Continue**" button.



Residence Information

Residency Type: Non US Residency

State / Province: 0

Country of Residence: 215

City: Ankara

Update

Correspondence Information

Country: 215

City: Ankara

Street Address 1: Bahcelievler Mahallesi 319.Sk. No:19

Postal Code:

Street Address 2:

Inventor Information Confidential:

Update

Non-Provisional Utility Patent Application Information

Application Type: Non-Provisional Utility

Title of the Invention: Adaptive Dual-Mode Traction Motor Control System for Electric Vehicles

Invention Summary: The invention relates to an adaptive dual-mode traction motor control system designed for electric vehicles, which optimizes motor performance based on driving conditions and load requirements. The system integrates a sensor-based motor driver capable of switching between efficiency mode and performance mode in real time. Through continuous monitoring of parameters such as torque demand, road inclination, and battery status, the system dynamically adjusts motor current and voltage to enhance energy efficiency, reduce thermal stress, and improve acceleration response. This invention aims to extend battery life while maintaining high driving performance, particularly under variable terrain and traffic conditions.

General Patent Classification:

H - ELECTRICITY

Geographical Origin of the Source / Knowledge: No

Government Funding: No

Update

Detailed Description of the Invention

Claims

claims.pdf Download

Abstract of the Disclosure

abstract.pdf Download

Drawings

drawings.pdf Download

Supporting Documents

No files uploaded

Likelihood Rate

Based on the documents you have uploaded and the available patent data, the probability of your application being approved is estimated to be approximately 0.0%. This is based on an analysis of past applications with similar content.

Update

First Inventor to File (AIA)

Evaluate the application under "First Inventor to File": No

Update

Authorization to Permit Access

Allow Access to Application Documents: Refused

Allow Access to Search Results: Allowed

Update

Office Action Education

During the examination of your application, it may be rejected for the following reasons:

- **§102:** Lack of novelty - The invention is not new or has been previously disclosed.
- **§103:** Obviousness - The invention would have been obvious to a person skilled in the art.
- **§112:** Insufficient description or vague claims - The specification does not provide adequate support for the claims.

Please carefully review all the details of the information you entered during the application process before proceeding. This information is critical for the validity of your application.

* I confirm that all the information I provided during the application process is accurate. I understand that missing or incorrect information may result in delays or rejection of my application.

Unless you accept this condition, you will not be able to proceed with the process.

Payment Information

To complete your application, payment must be made.

After the payment is completed, you may withdraw your application, but the fee is non-refundable.

* I have read and approved the above Non-Provisional Utility Patent application, and I acknowledge that the payment is non-refundable.

Unless you accept this condition, you will not be able to proceed with the process.

Signature

* First Name: Emine

* Last Name: Yitim

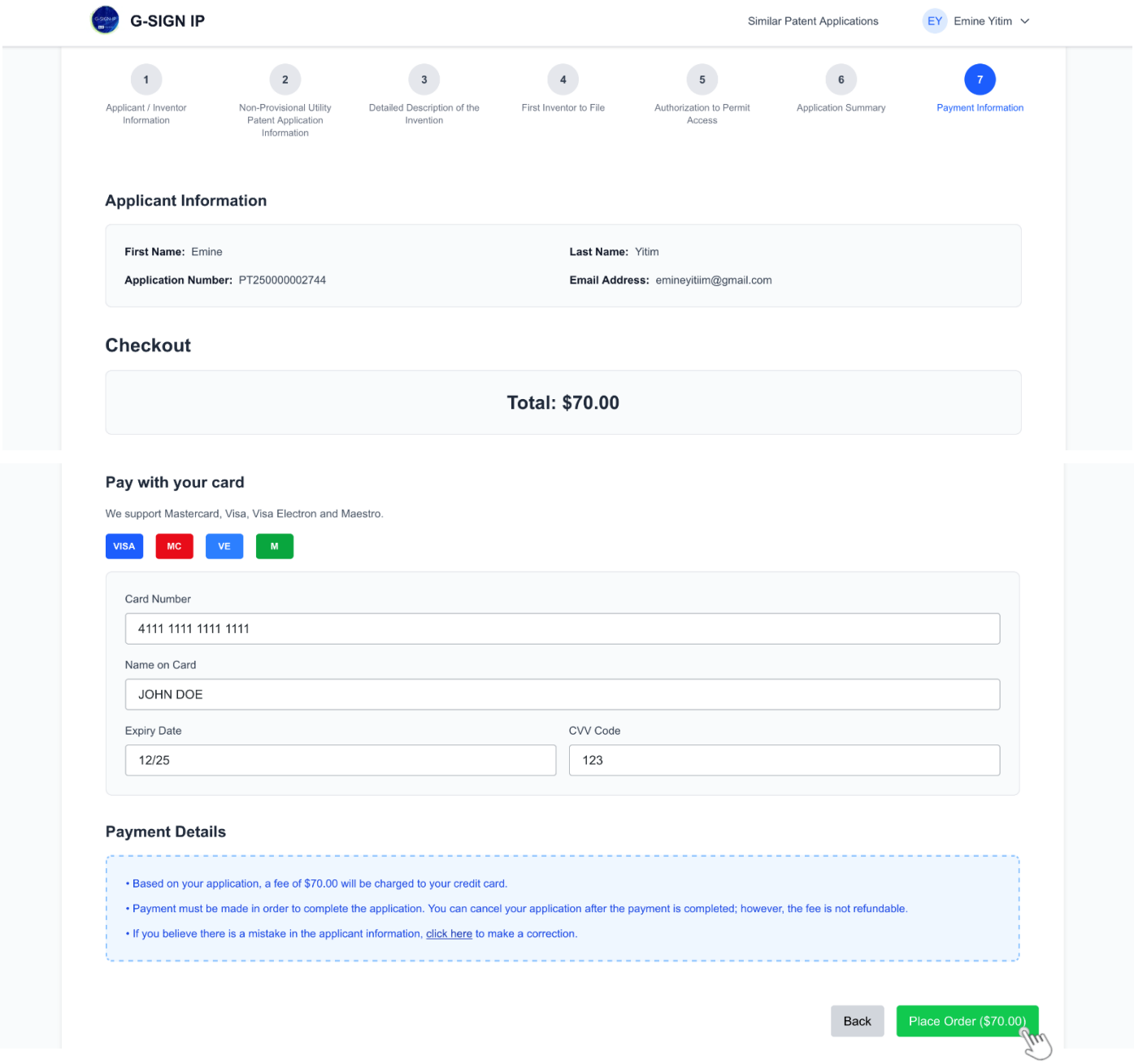
* Signature: Emine Yitim

Your application is not complete until you complete this field. (35 U.S.C. § 115 37 CFR § 1.63)

Back | Save and Continue

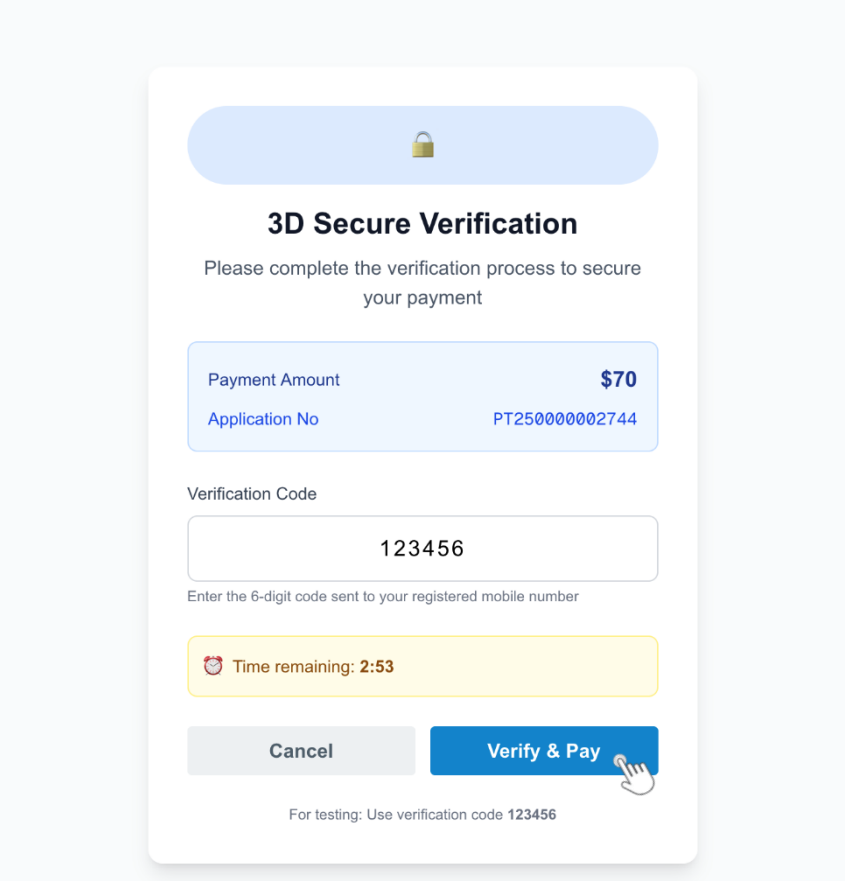
7. Payment Information

- In the Payment Information step, the payment amount and payment details are displayed.
- To complete the transaction, click the "**Place Order**" button.



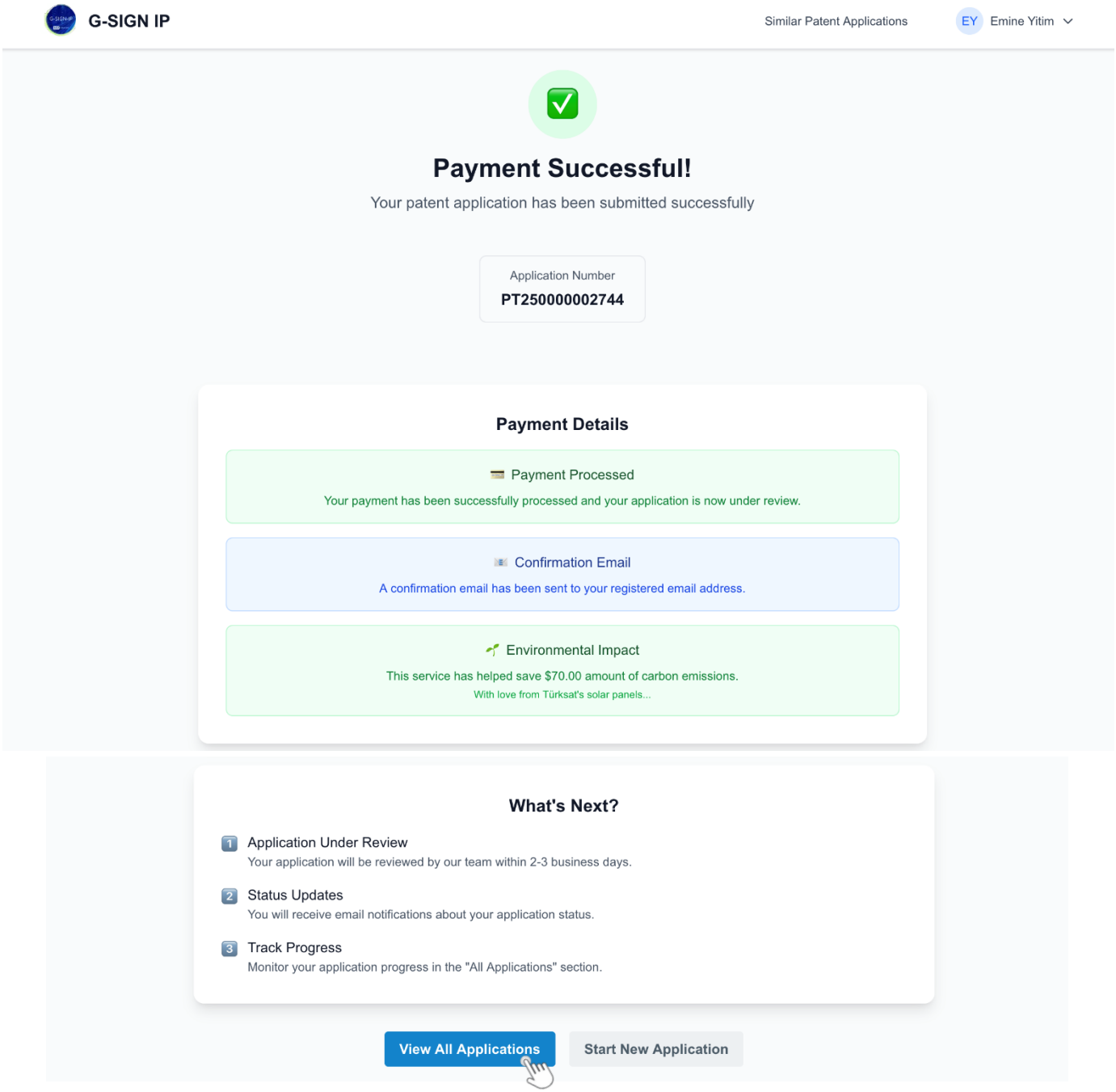
3 Patent Application Process

- After clicking the **“Place Order”** button, a **verification code** will be sent to your registered mobile phone to complete the payment.
- After entering the verification code, you can proceed by clicking the **“Verify & Pay”** buttons.



3 Patent Application Process

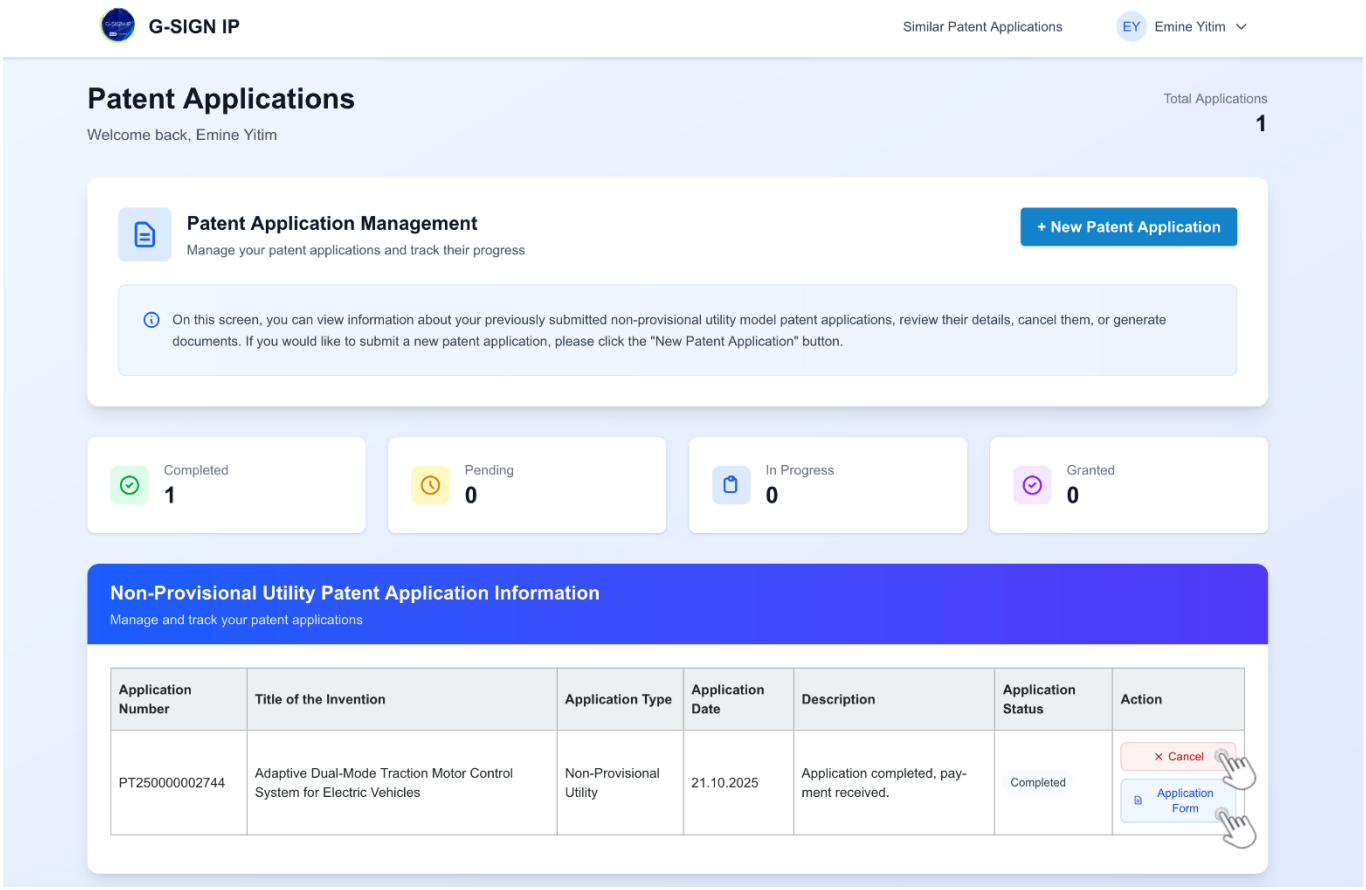
- After clicking the “**Verify & Pay**” button, your patent application is **successfully submitted**.
- On this screen, you can view your **application number**, **payment details**, and information necessary for the next steps.
- To view your application on your homepage, click the “**View All Applications**” button.



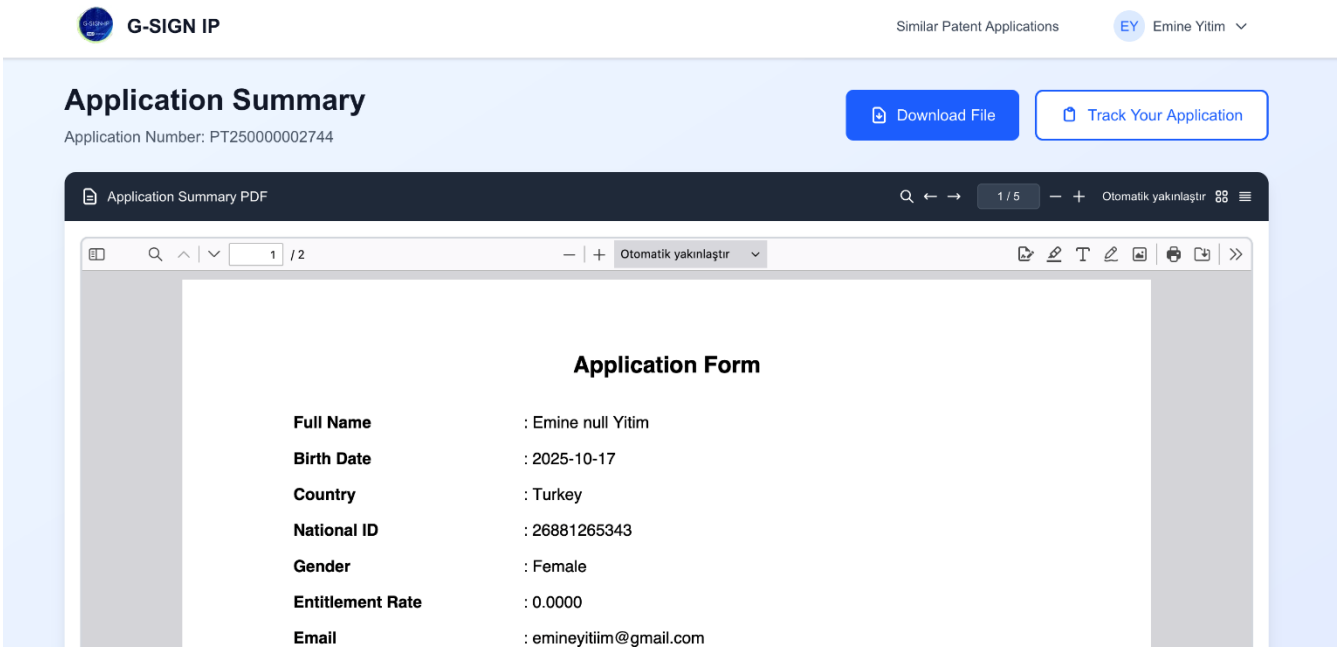
3 Patent Application Process

On this screen, you can view information about your previously submitted **non-provisional utility patent applications**, review their details, cancel an application, or generate related documents.

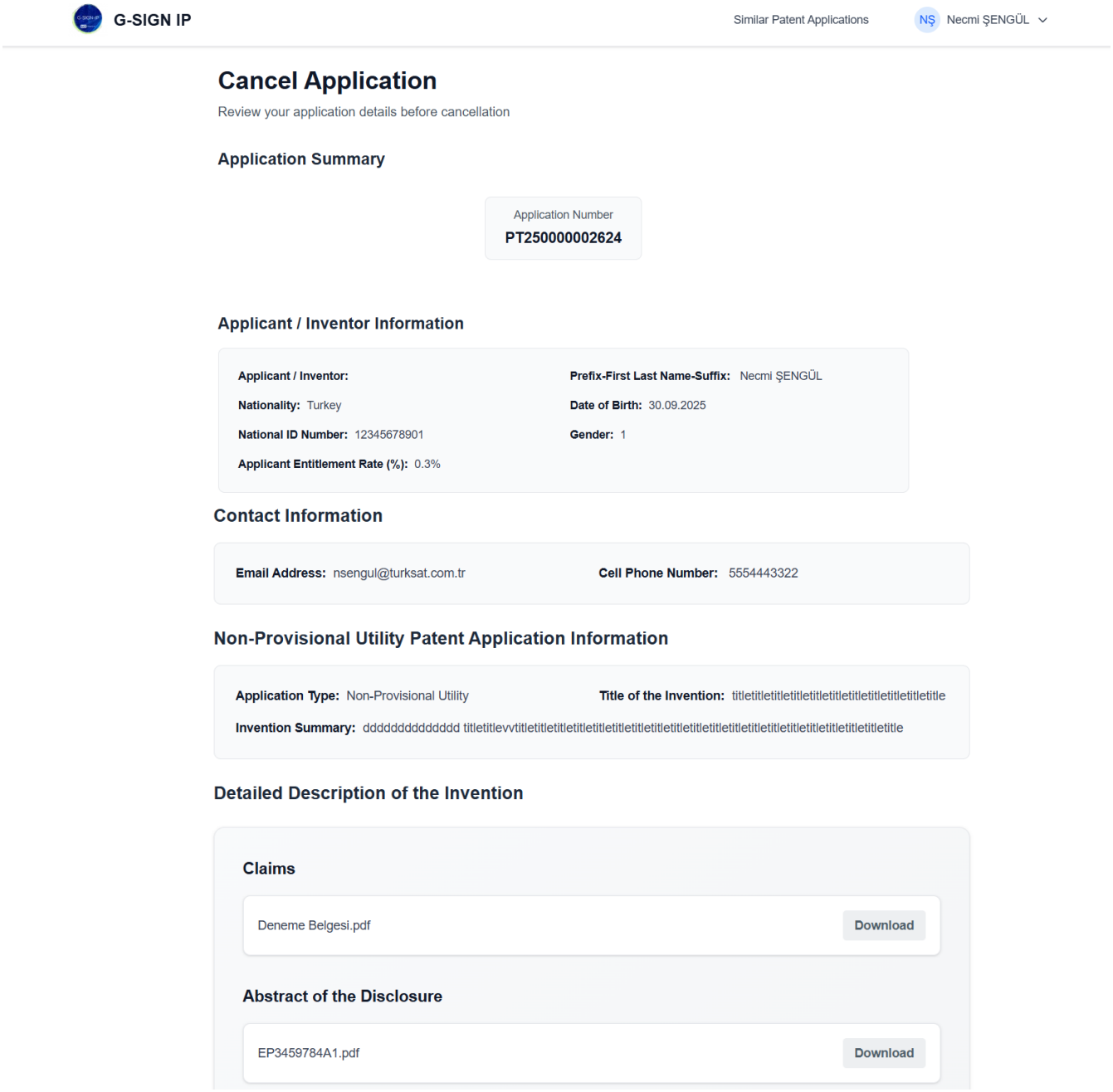
- If you wish to submit a new patent application, click the **“New Patent Application”** button.

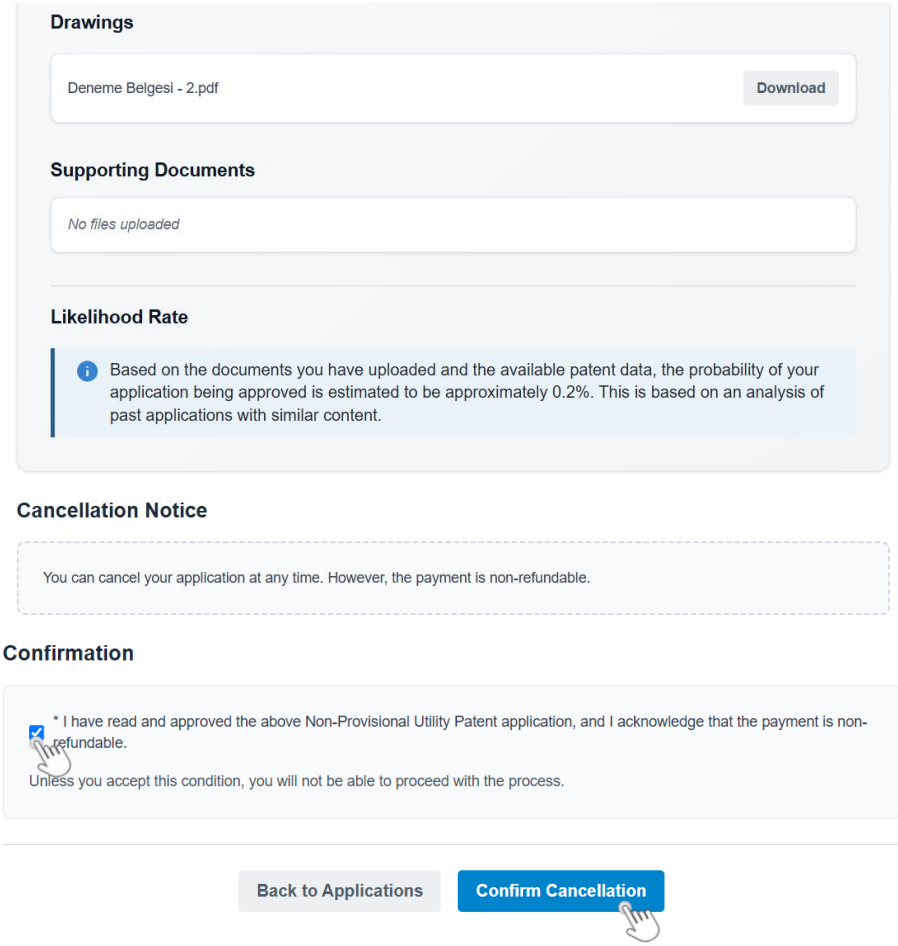
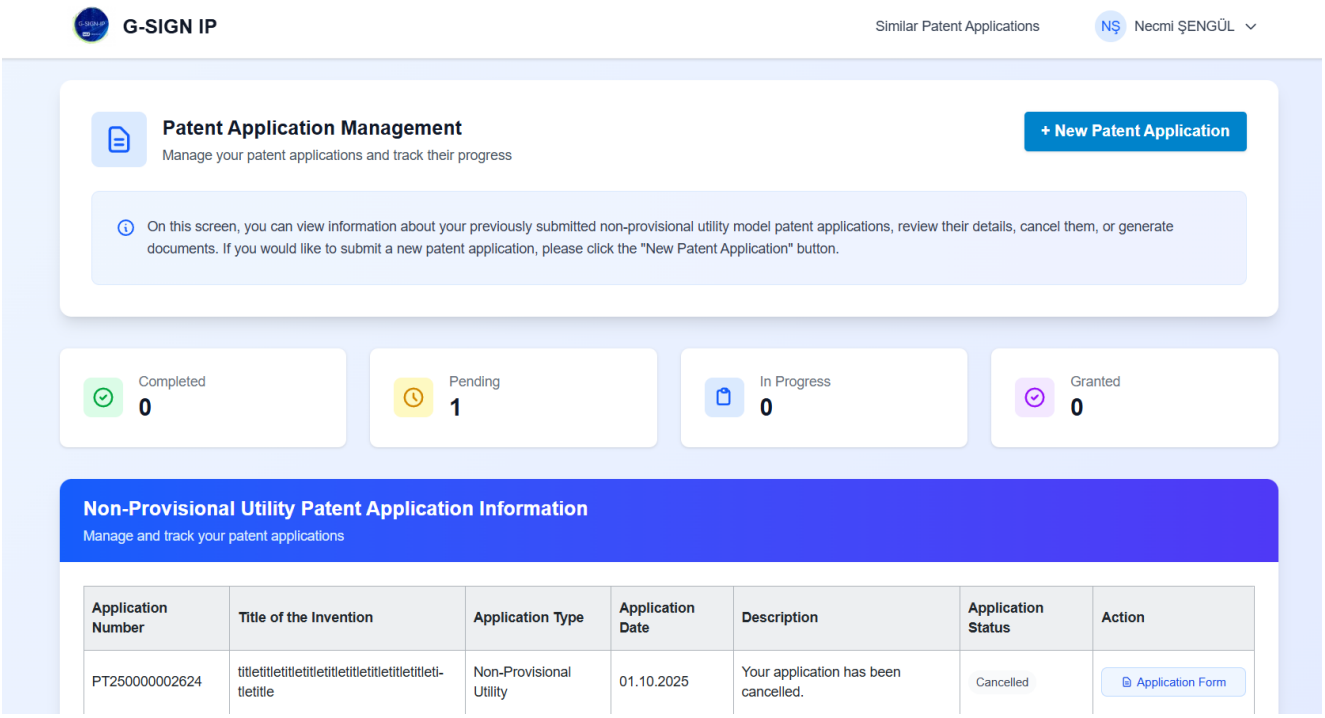


- To view the application form, click the “**Application Form**” button.



- After clicking the **“Cancel”** button, you can preview your application and read the information text.
- Once you confirm the statement “**I have read and approved the above Non-Provisional Utility Patent application and accept that the payment is non-refundable.**” you can cancel your application by clicking the **“Confirm Cancellation”** button.
  Note: Payments are non-refundable.





After clicking the "**Confirm Cancellation**" button, you can view the cancelled application in the table.