

Cyber Egypt

مصر السبيرانية

Team Members:

1- Ahmed Ali Mostafa Mohamed (Team leader)

(Video-coding -documentation-manage)

2- Ahmed Esam Mohamed Lotfy

(coding-documentation -video)

3- Mohamad Elsaid Fawzy Gomaa

(Video -development-deployment)

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github link: [MOHAMADFAWZI-911/cyberEgypt_bugBounty](https://github.com/MOHAMADFAWZI-911/cyberEgypt_bugBounty).

1. Executive Summary

In the era of digital transformation, cybersecurity has become

a cornerstone of national economic growth.

Egypt Cyber is an innovative bug bounty platform that bridges the gap between Egyptian companies and the new generation of skilled cybersecurity experts.

The platform serves as a secure collaboration hub, enabling companies to test their systems for vulnerabilities proactively. In return, researchers gain opportunities to develop their skills, earn rewards, and contribute to protecting Egypt's digital economy.

2.Used Technology

The project relies on a set of modern web development technologies:

Frontend:

React: A JavaScript library used for building user interfaces.

Vite: A fast build tool used to run the project in a development environment and bundle code for production.

Tailwind CSS: A CSS framework for rapidly and efficiently designing the interface. It's used via a CDN (Content Delivery Network) for easy application.

Backend:

Json-server: A fake API server that runs locally and uses the db.json file as a simple database. This server allows for full RESTful API operations (GET, POST, PATCH, DELETE) and is ideal for demonstration and local testing purposes.

Concurrently: A tool for running multiple npm commands at the same time, which allows both the json-server and the Vite server to run together in one command line.

Project Structure

The project has the following main structure:

db.json: The local database file containing all data such as users, companies, reports, and assets.

routes.json: A file that defines the API routes.

src/: Contains all the React frontend code.

src/api.js: Includes functions for fetching and sending data to json-server.

src/App.jsx: The main component that manages the current user's state (login/logout) and displays the appropriate components based on their role.

src/components/: Contains all sub-components like AuthForm, CompanyDashboard, and ResearcherDashboard.

src/App.css: The main styling file that defines the component styles.

How to Run the Project

platform link : [Cyber Egypt – Full](#)

To run the project on your local machine, follow these steps:

git code from:  GitHub - MOHAMADFAWZI-911/cyberEgypt_bugBounty

Make sure you have Node.js and npm installed on your device.

Open a Terminal or command line inside the project folder.

Install all required libraries using the following command:

```
npm install
```

Run the project using the designated command:

```
npm run dev
```

Open your web browser and navigate to the address <http://localhost:5173>.

Key Functions and Features

The platform supports three main user roles, each with its own specific functions:

Researcher:

Researcher Dashboard: Displays performance statistics, such as the number of accepted reports and the total amount of bounties.

Program Discovery: Can browse bug bounty programs available from companies based on asset type or bounty type.

Report Submission: Can submit new reports for vulnerabilities, specifying the title, description, and severity level.

Report Tracking: Can track the status of the reports they have submitted.

Company:

Company Dashboard: Displays general statistics about vulnerability reports, such as the number of open and closed reports and the total bounties paid.

Asset Management: Can add, edit, and delete their assets that are included in the program's scope.

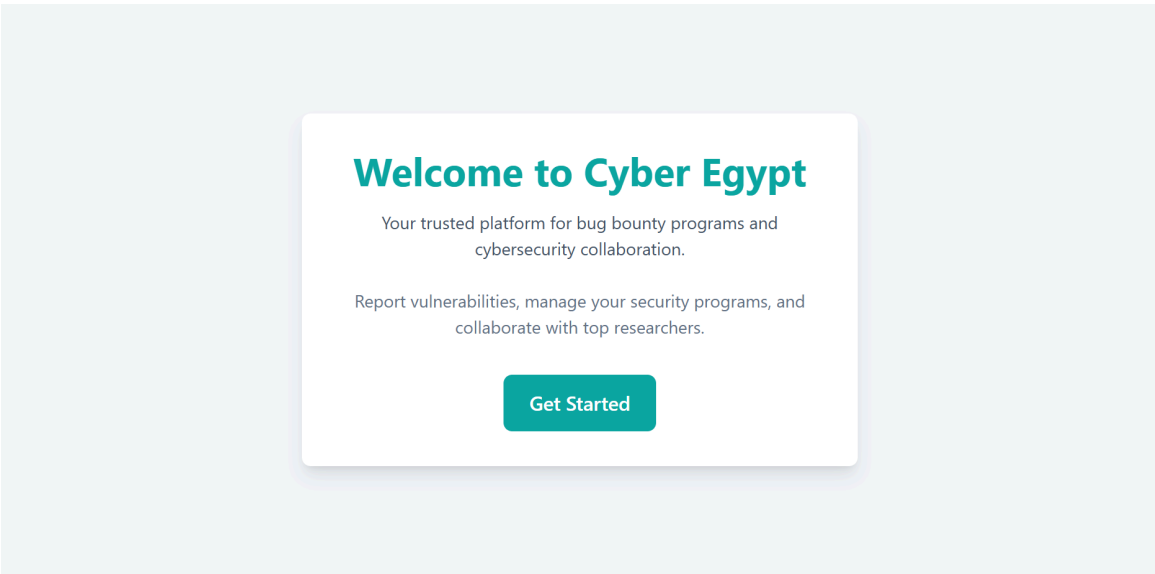
Report Management: Can view incoming reports, change their status, and assign service providers to work on them.

Service Provider:

Provider Dashboard: Displays performance statistics for the provider.

Task Management: Can view tasks assigned to them by companies, submit price offers, accept counter-offers, and update the task status to "completed".

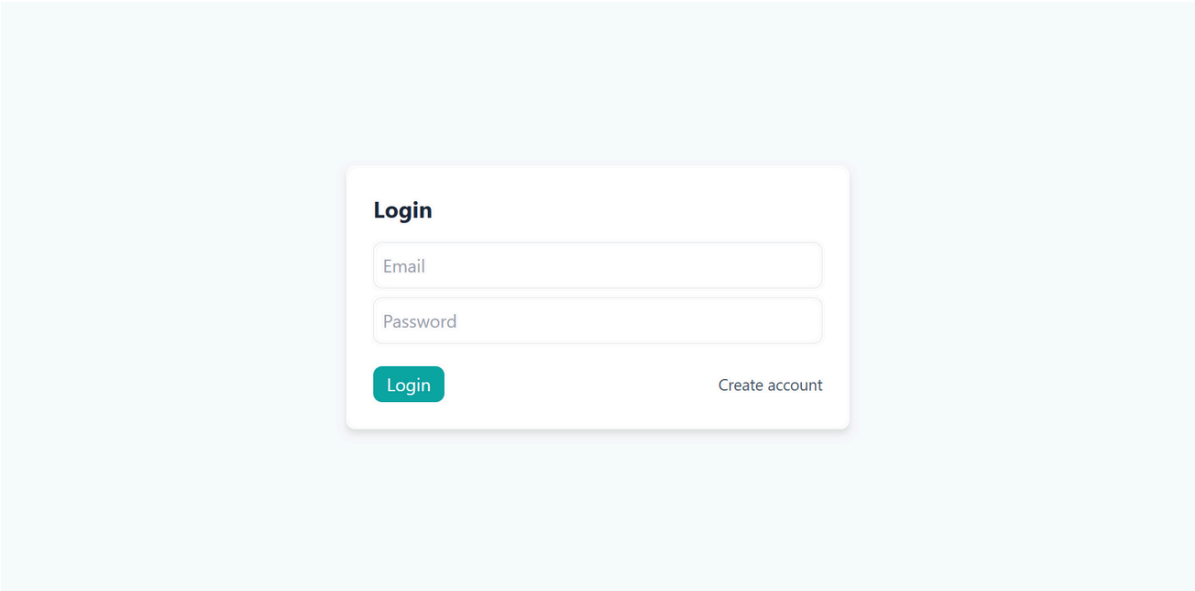
welcome page



Login page

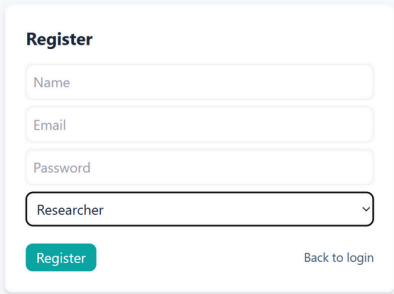
with

Enter your email and password



Registration process

Enter your name and email and password
and role



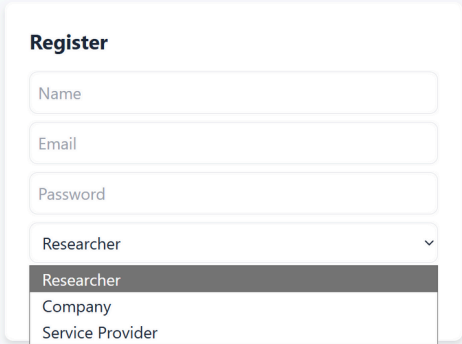
The registration form is titled "Register". It contains four input fields: "Name", "Email", "Password", and a dropdown menu for "Role". The "Role" dropdown is currently set to "Researcher". Below the fields are two buttons: a green "Register" button and a "Back to login" link.

Different roles choosing during registration

Individual researchers

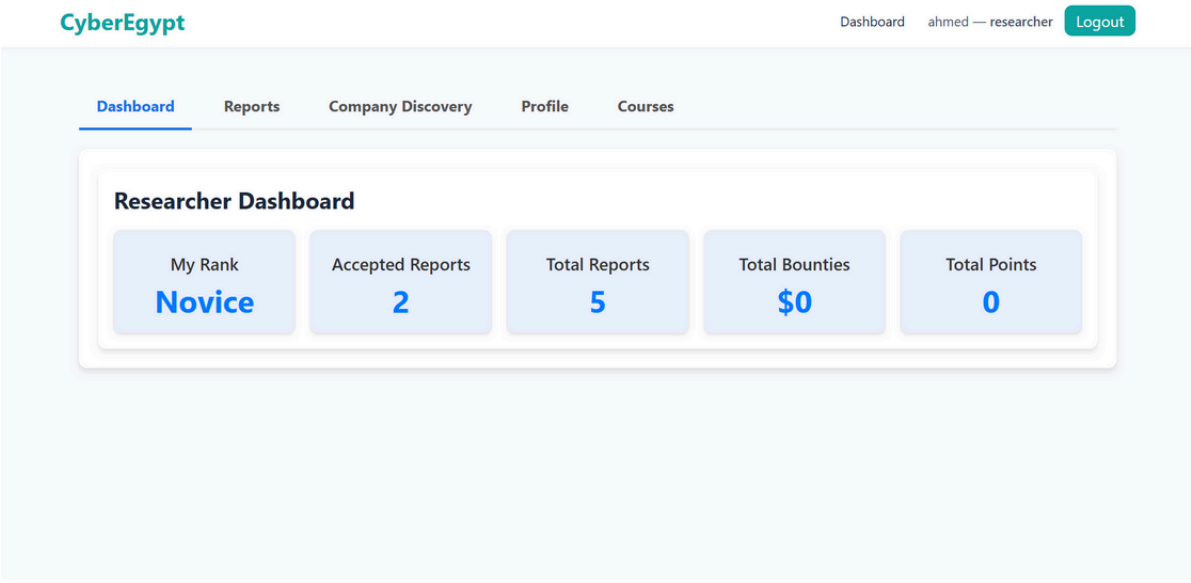
Companies

Service providers.

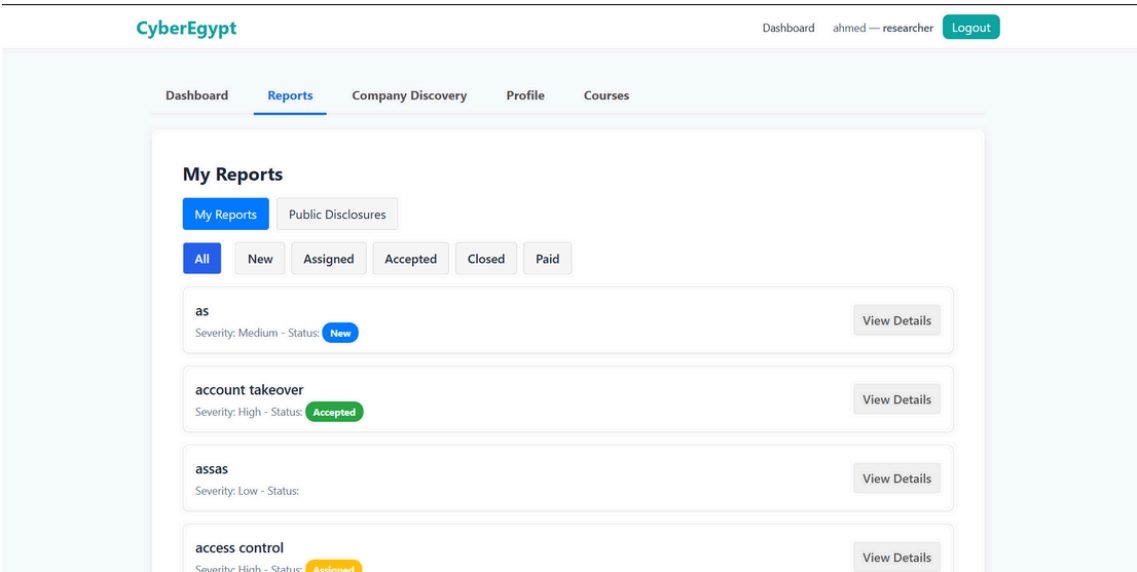


The registration form is shown with the "Role" dropdown menu open. The dropdown menu lists three options: "Researcher", "Company", and "Service Provider". The "Researcher" option is currently selected and highlighted.

This is Researcher account



Reports Details with filtrations option



Submitting new reports

Submit a New Report

Title

Severity

Low

CVSS Score (0.0-10.0)

Description

Steps to Reproduce

Submit Report

All programs assigned to the company

CyberEgypt

Dashboardahmed — researcherLogout

DashboardReportsCompany DiscoveryProfileCourses

Discover Bug Bounty Programs

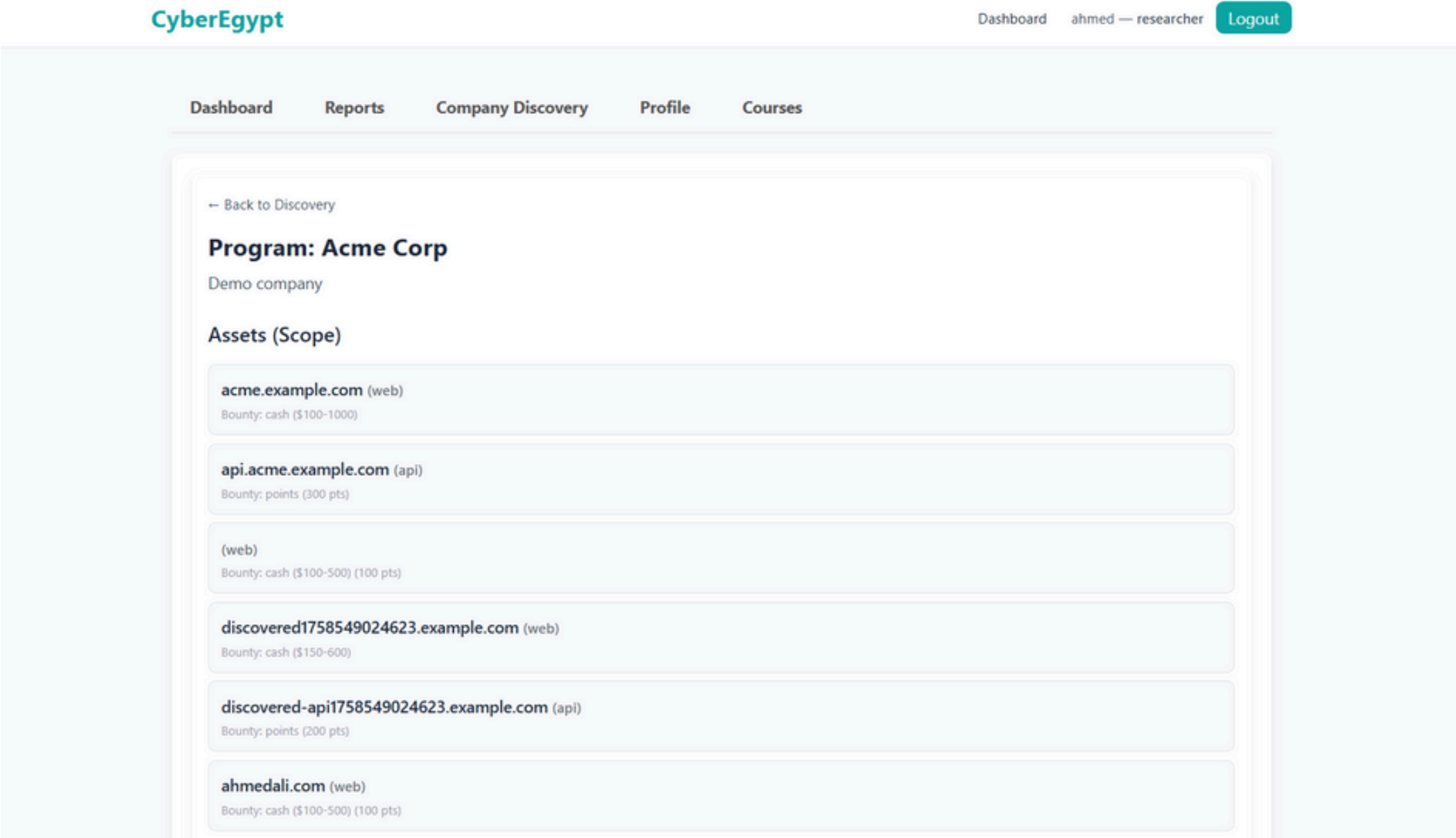
All ProgramsCashPointsNo Bounty

Acme Corp

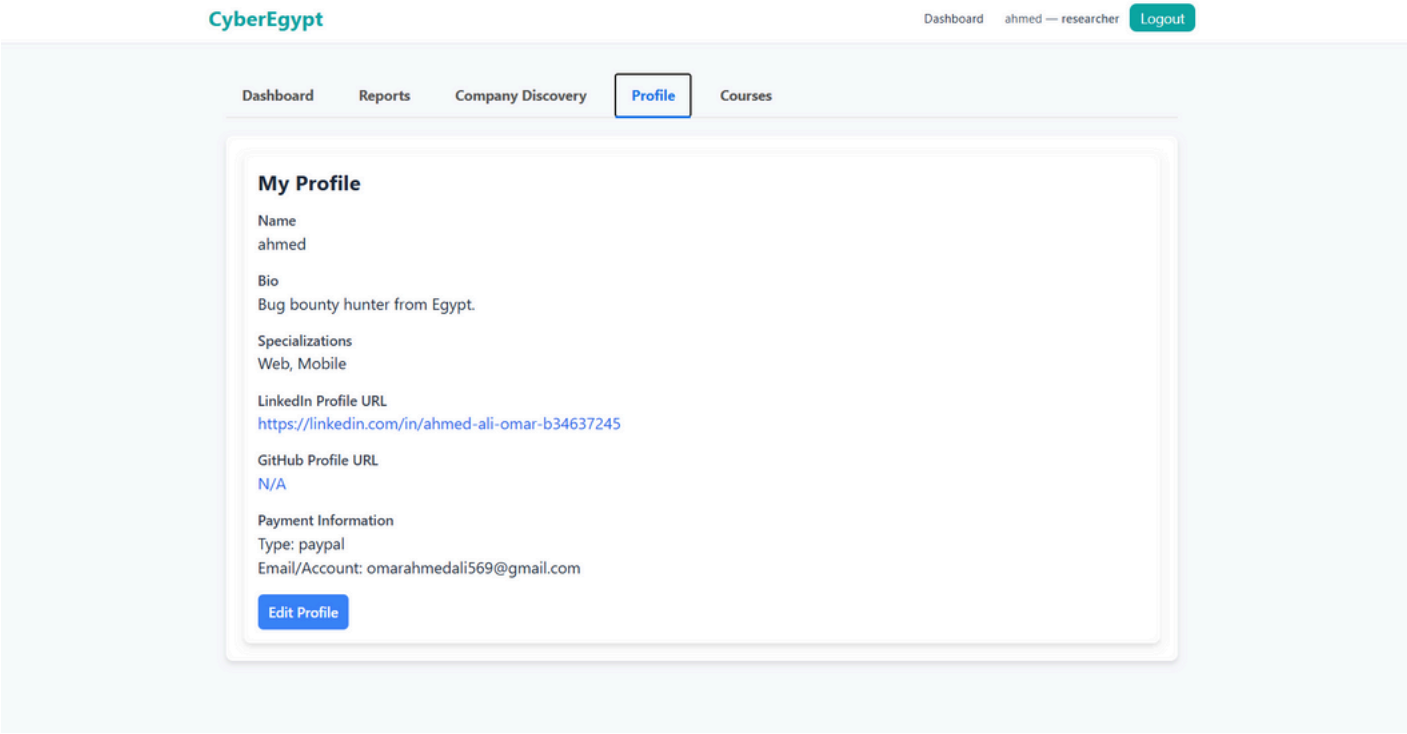
Assets: 7

View Program

All companies Assets



Your profile as a Researcher



Profile information

My Profile

Name

Bio

Bug bounty hunter from Egypt.

Specializations (comma separated)

LinkedIn Profile URL

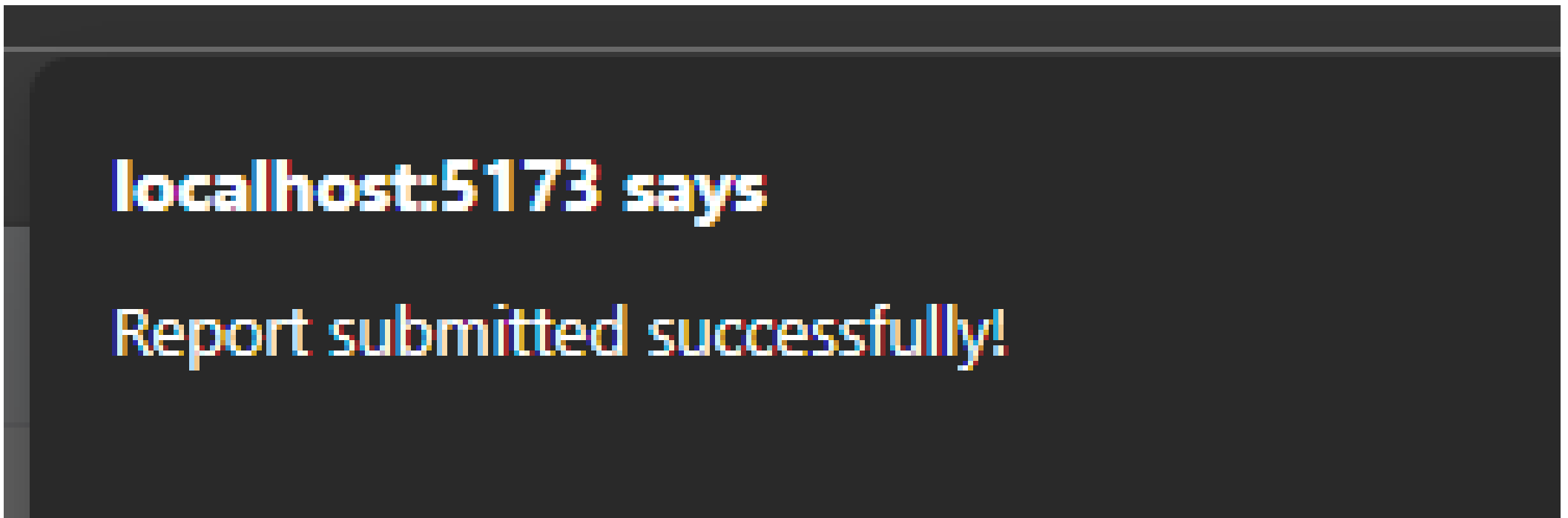
GitHub Profile URL

Payment Information

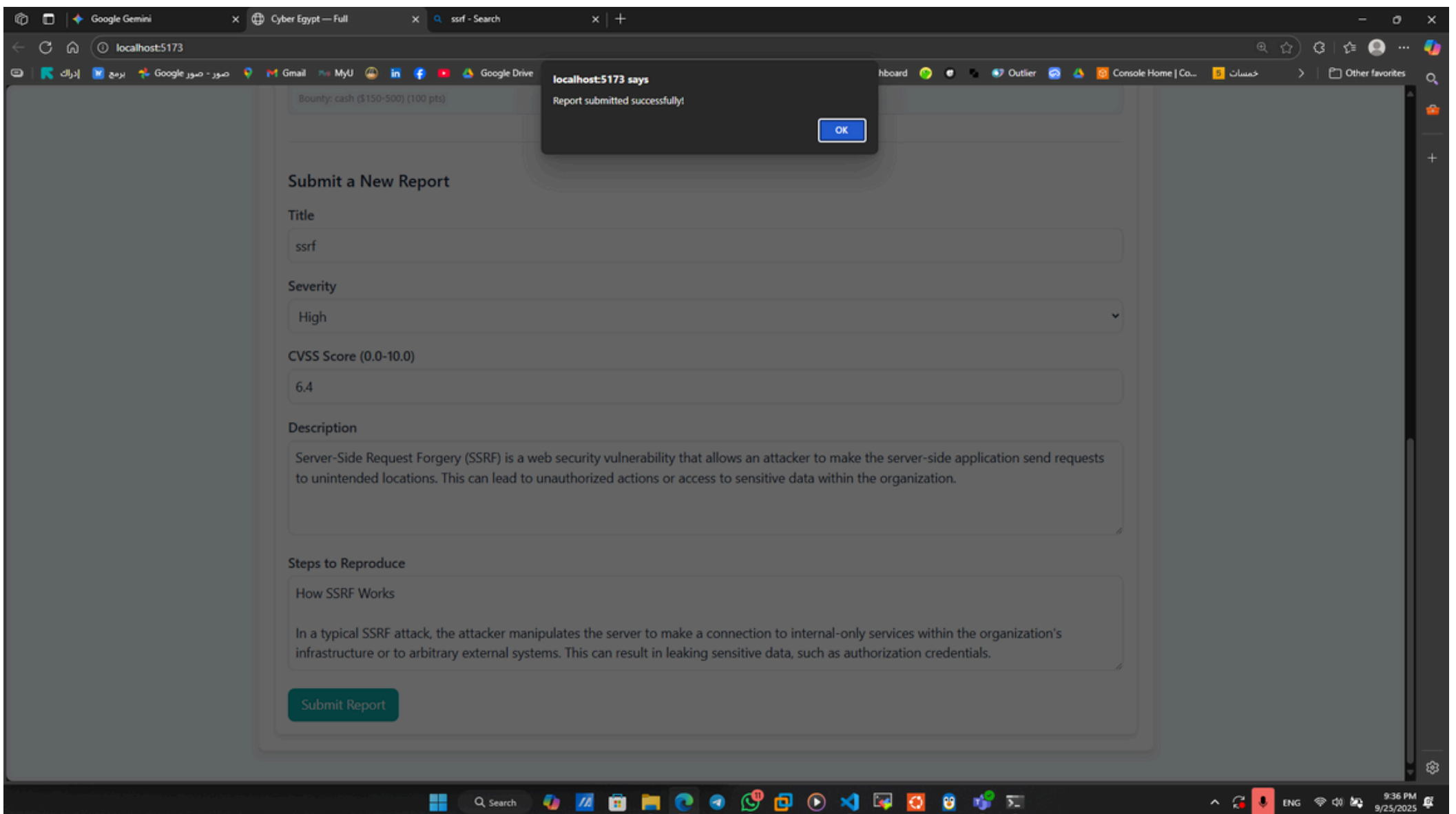
PayPal

Save Changes

This message appear when you submit successfully

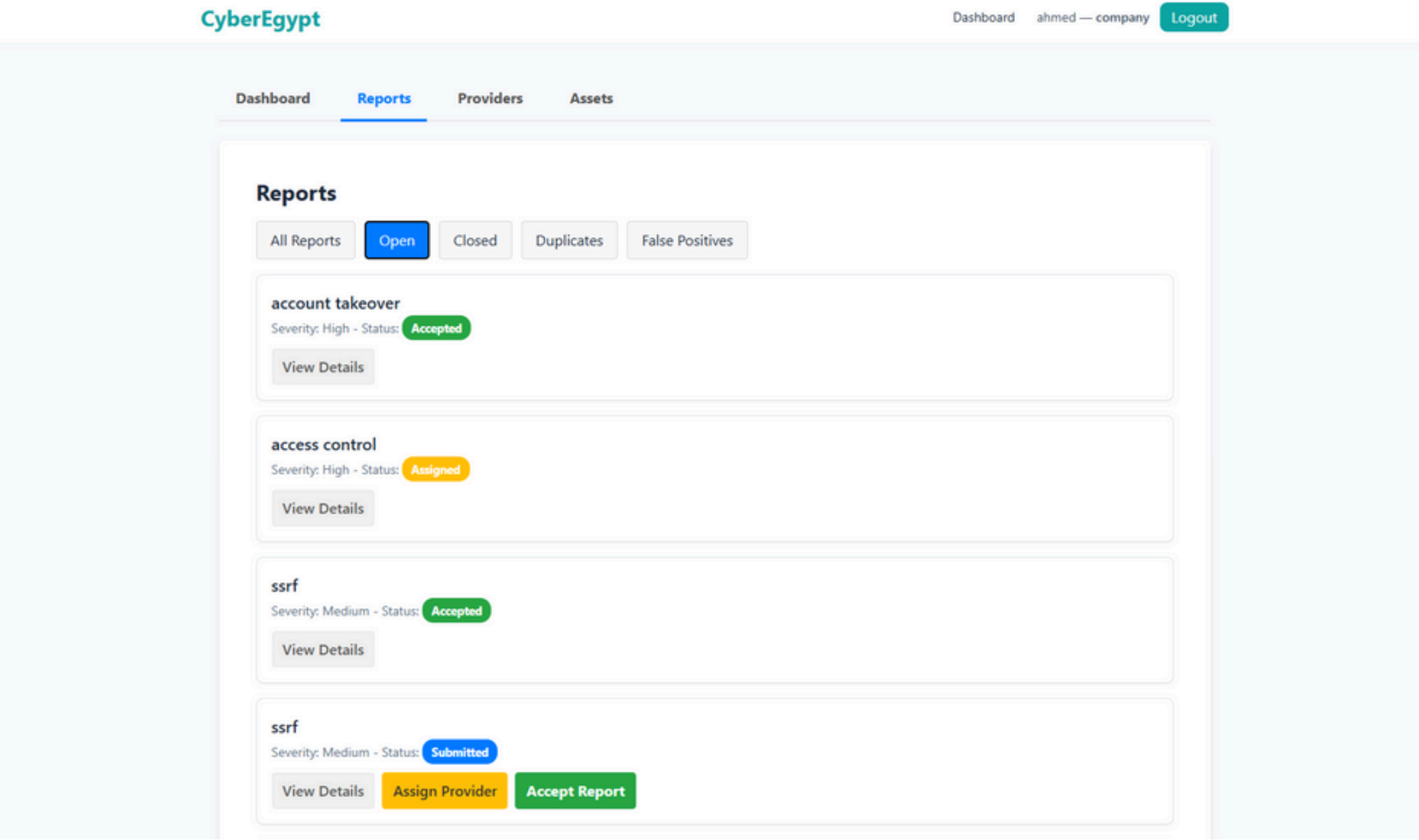
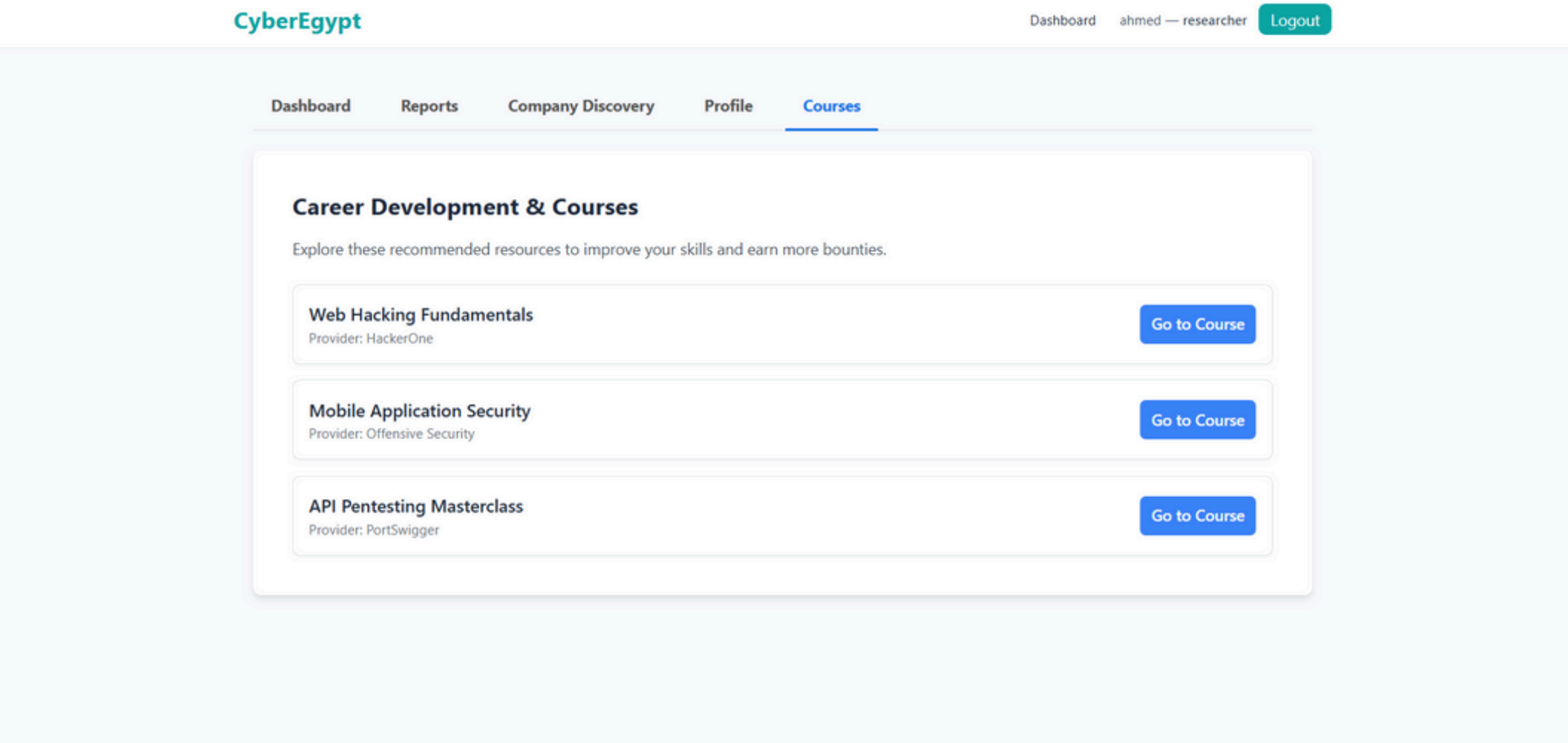


Also in bi picture

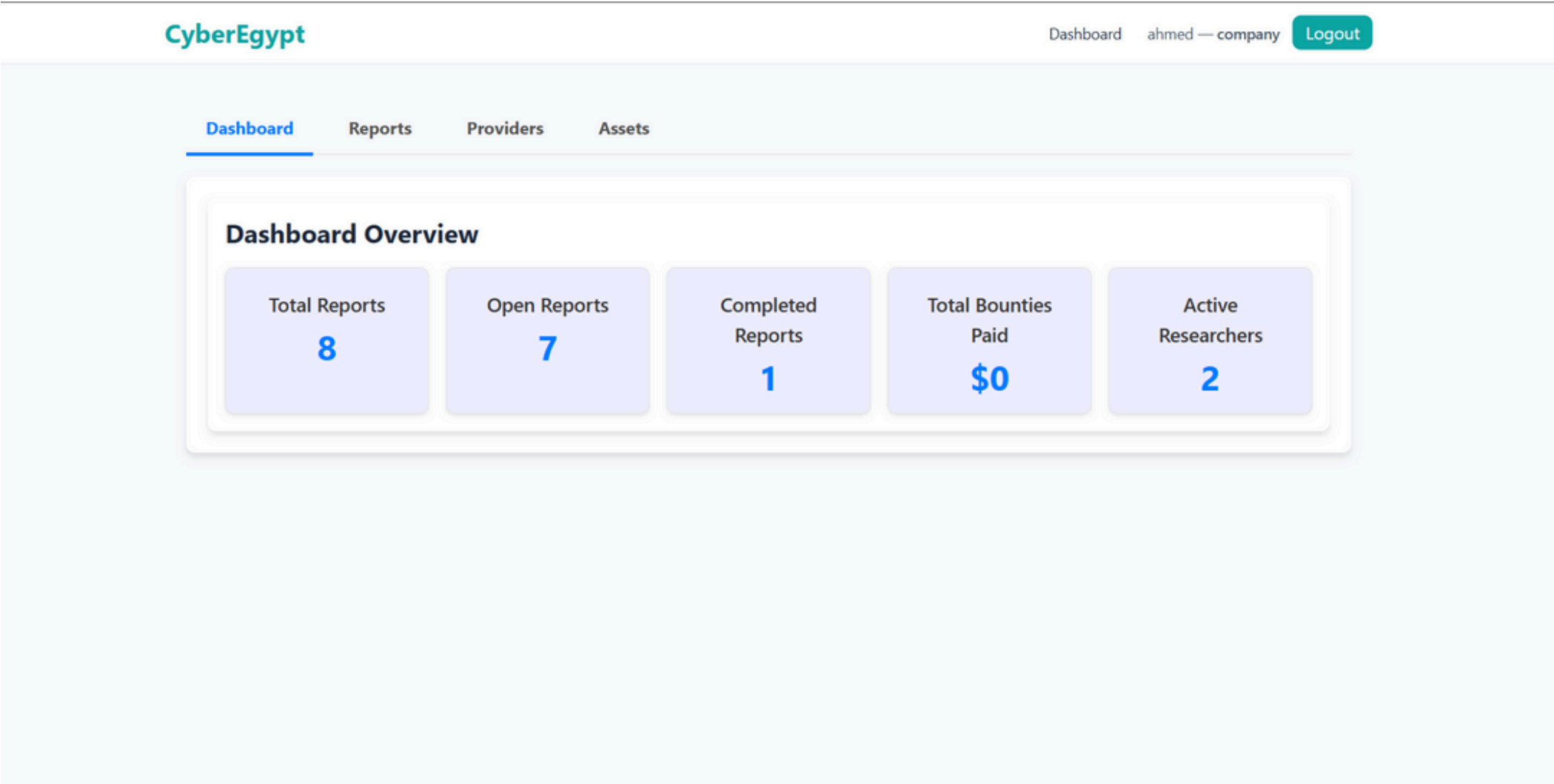


This Courses Section

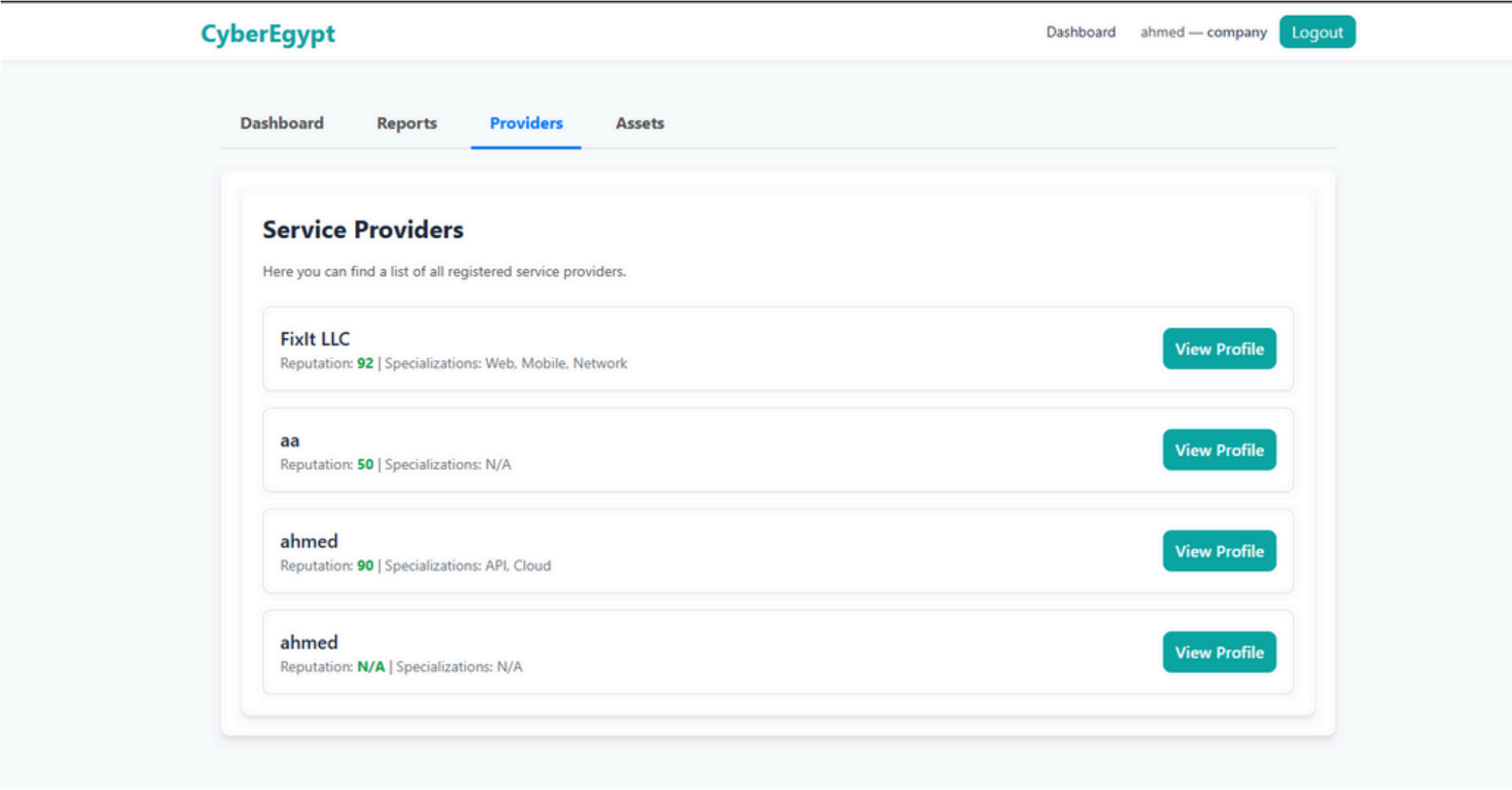
is for researchers who want to improve themselves



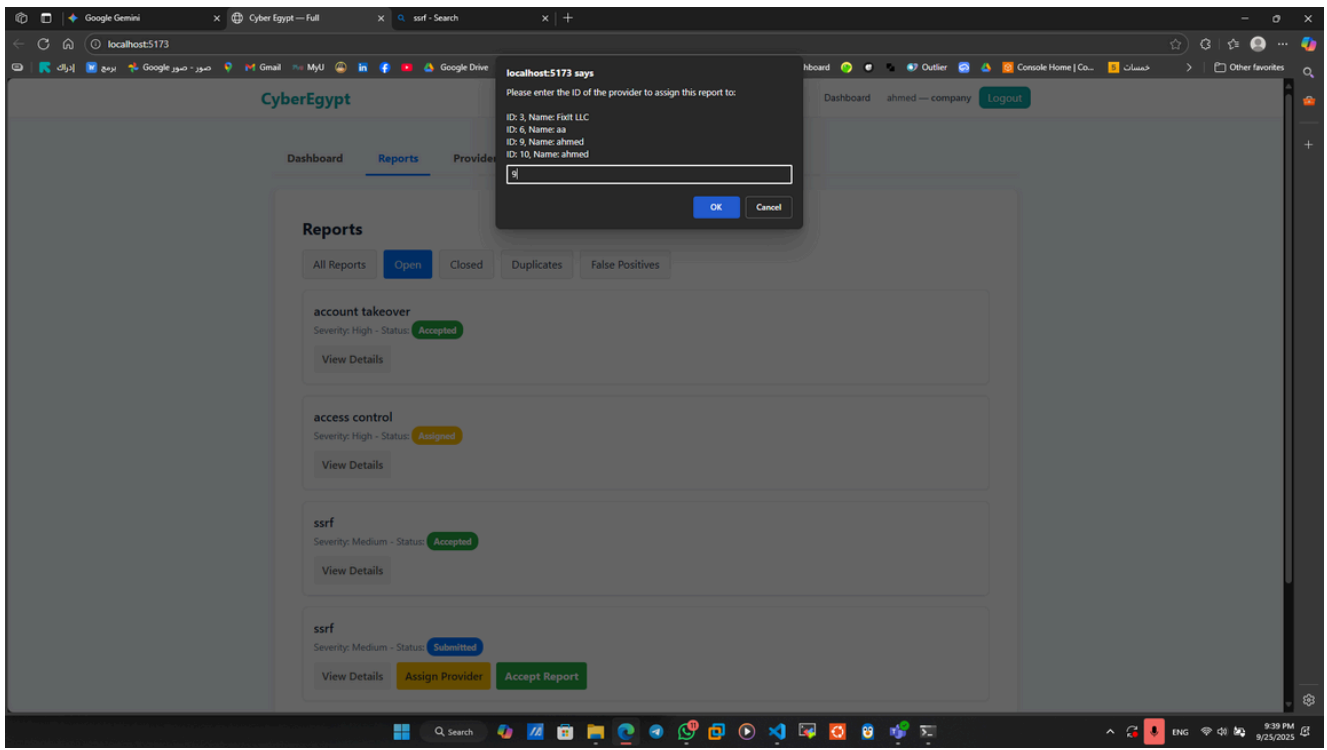
This is company account



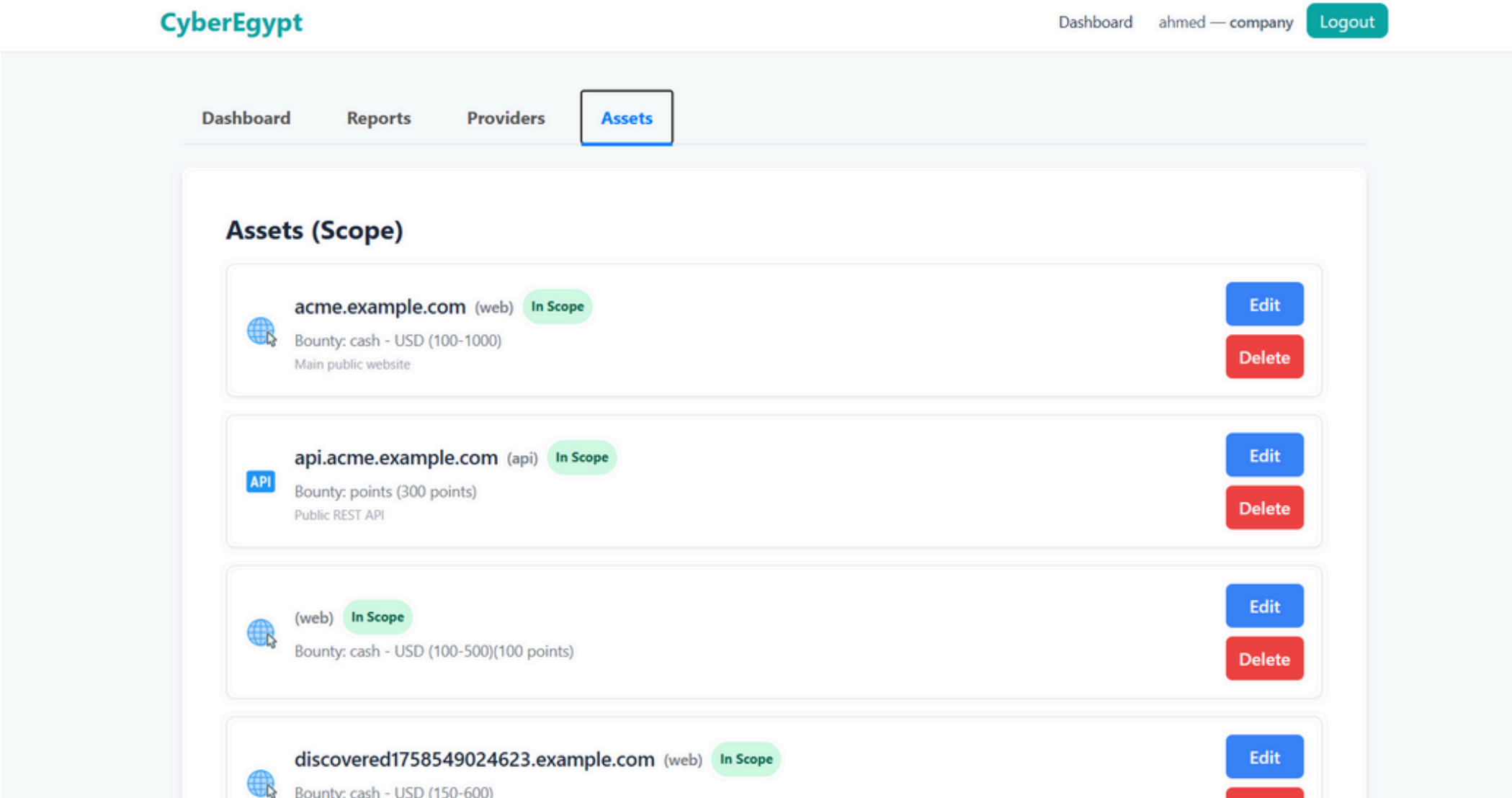
Also we have providers section to assign tasks to a provider



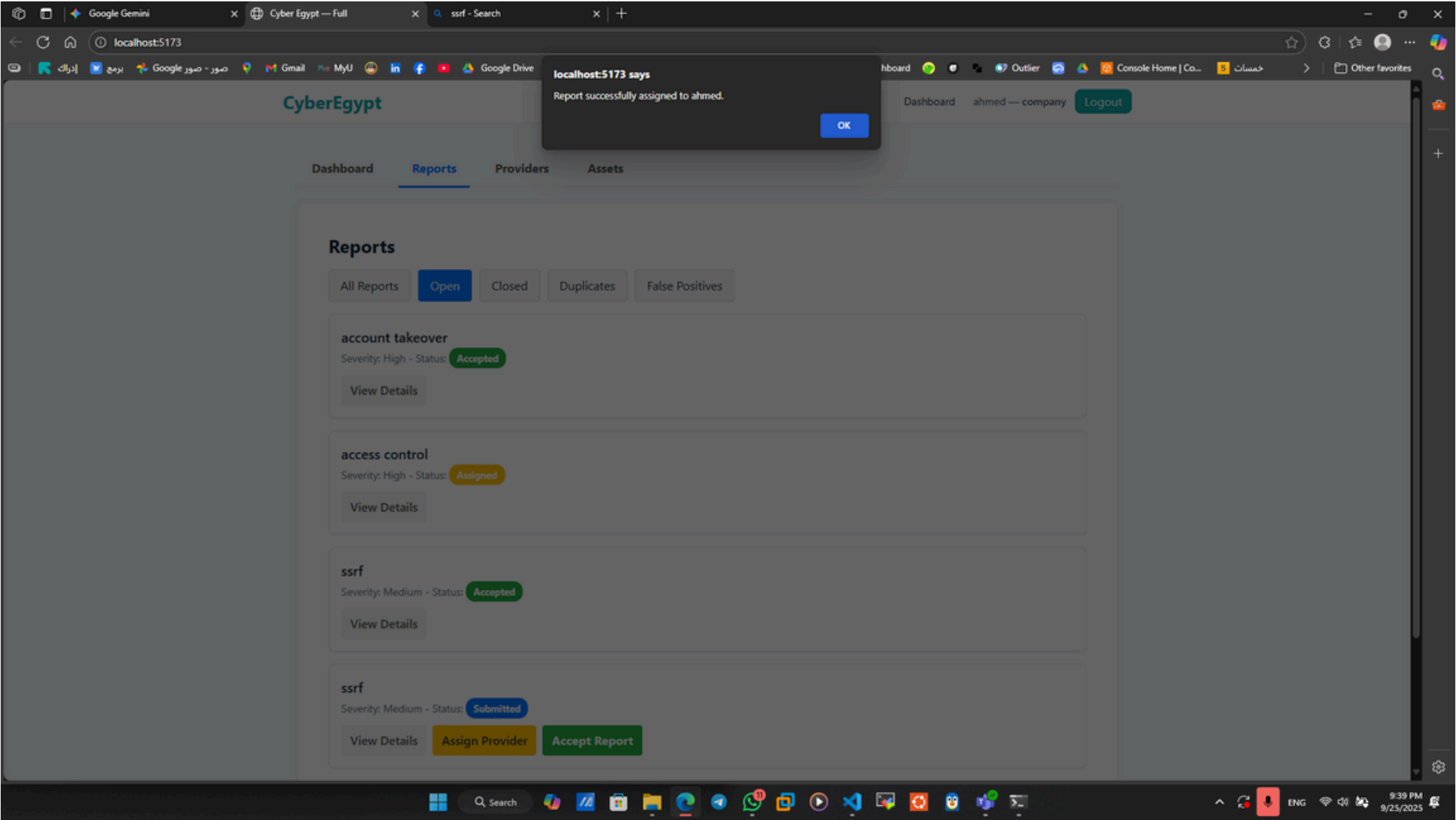
those are the steps we do to assign task to providers



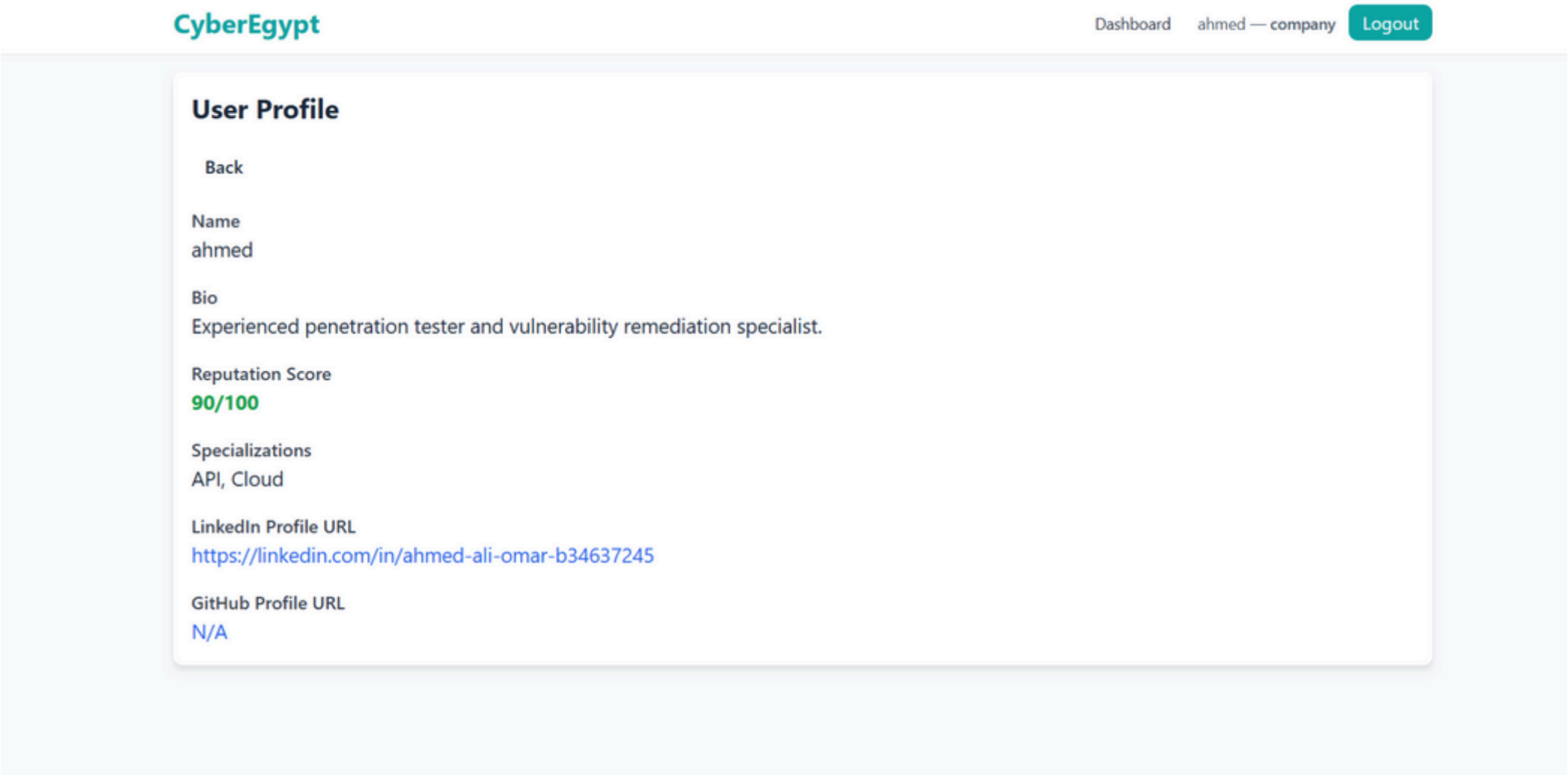
You can control the company asset from here
to edit or to delete



This message for successfully assigned the task to the provides



User profile example



Editing Assets

API

mohamad.com (api) In Scope

Bounty: cash - USD (150-500)(100 points)

a1

EditDelete

Edit Asset

mohamad.com

API

In scope ☒

Cash

USD150500

a11

a

a

24/7

Update Asset

Adding new assets

API

mohamed.com (api) In Scope

Bounty: cash - USD (150-500)(100 points)

a

EditDelete

Add New Asset

Asset (domain or identifier)

Web

In scope ☒

Cash

USD100500

Notes

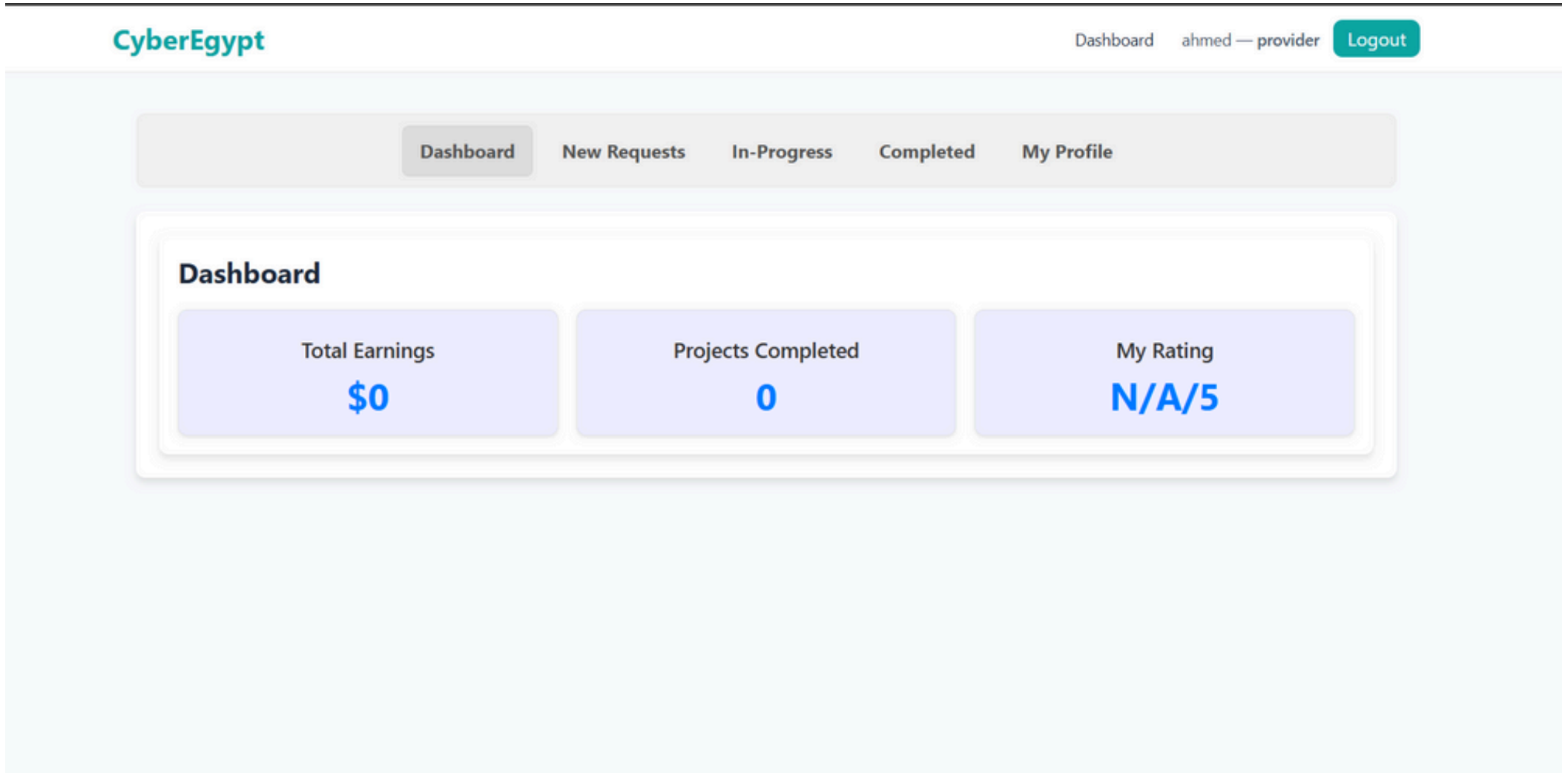
Endpoints (comma separated)

Allowed methods (comma)

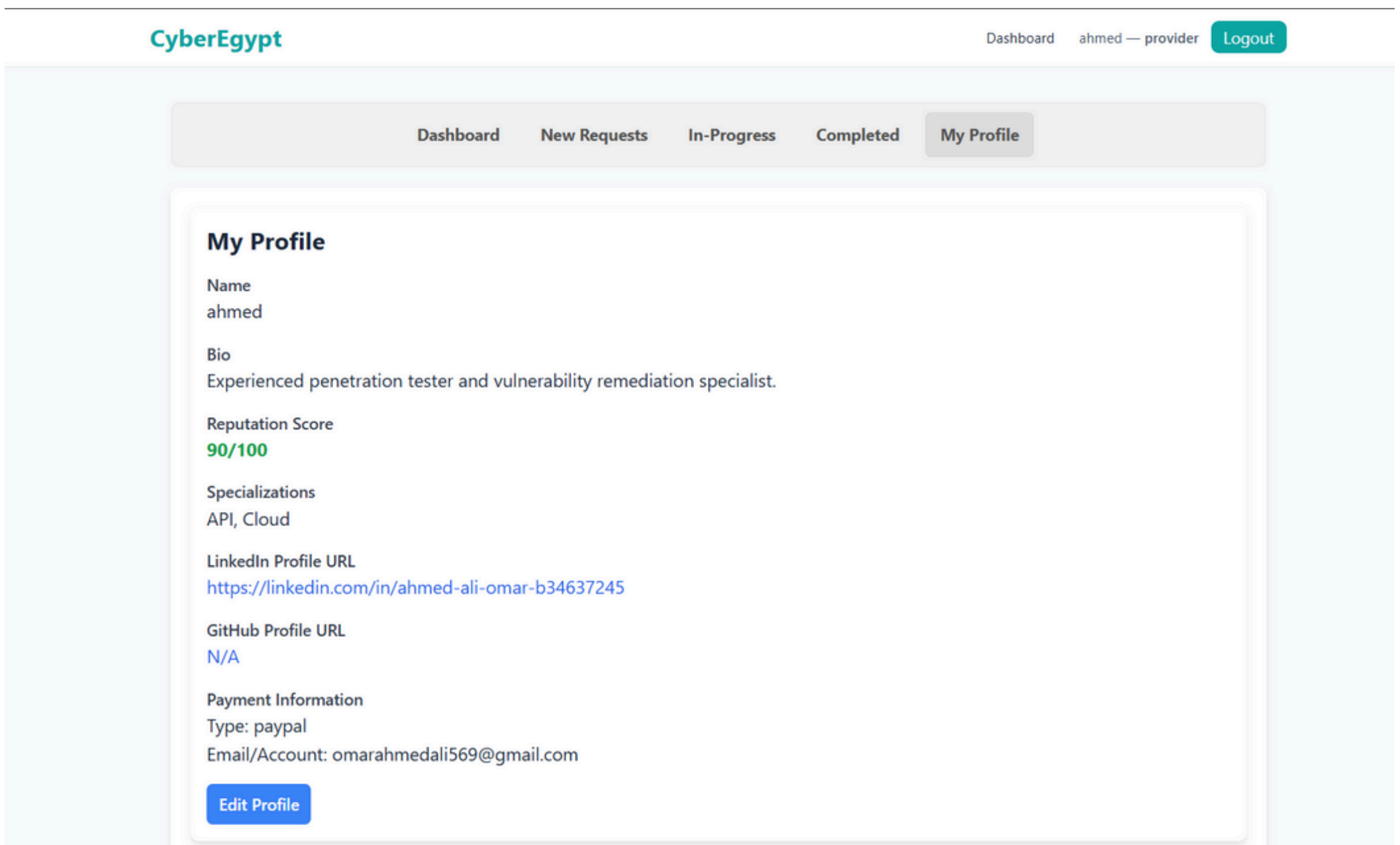
24/7

Add Asset

Provider account



provider profile example



Request Section

Dashboard

New Requests

In-Progress

Completed

My Profile

Service Requests

assas

From: Acme Corp

View Report

0

Submit Offer

access control

From: Acme Corp

View Report

0

Submit Offer

ssrf

From: Acme Corp

View Report

0

Submit Offer

ssrf

From: Acme Corp

View Report

0

Submit Offer

Dashboard

New Requests

In-Progress

Completed

My Profile

My Profile

Name

ahmed

Bio

Experienced penetration tester and vulnerability remediation specialist.

Specializations (comma separated)

API, Cloud

LinkedIn Profile URL

https://linkedin.com/in/ahmed-ali-omar-b34637245

GitHub Profile URL

Payment Information

PayPal

omarahmedali569@gmail.com

Save Changes

My Profile

Name

ahmed

Bio

Experienced penetration tester and vulnerability remediation specialist.

Specializations (comma separated)

API, Cloud

LinkedIn Profile URL

<https://linkedin.com/in/ahmed-ali-omar-b34637245>

GitHub Profile URL

Payment Information

PayPal



omarahmedali569@gmail.com

Save Changes

4. Socio-Economic Impact

4.1 Social Impact

Talent Development: Guides the energy of Egyptian youth towards a profitable and structured cybersecurity career path.

Professional Opportunities: Researchers can redeem points for cybersecurity certification vouchers, boosting their career value.

Global Recognition: Enhances the reputation of Egyptian researchers internationally, providing global exposure.

4.2 Economic Impact

Regional Expertise Hub: Positions Egypt as a regional leader in cybersecurity, attracting companies from the Middle East and Africa.

Protecting the Digital Economy: Reduces the financial losses companies face from breaches.

Investment Attraction: Builds investor confidence by strengthening Egypt's cybersecurity posture.

5. Business Model & Financial Cycle

Key Points:

Low Costs: Hosting, storage, and maintenance are cost-efficient.

Revenue Streams:

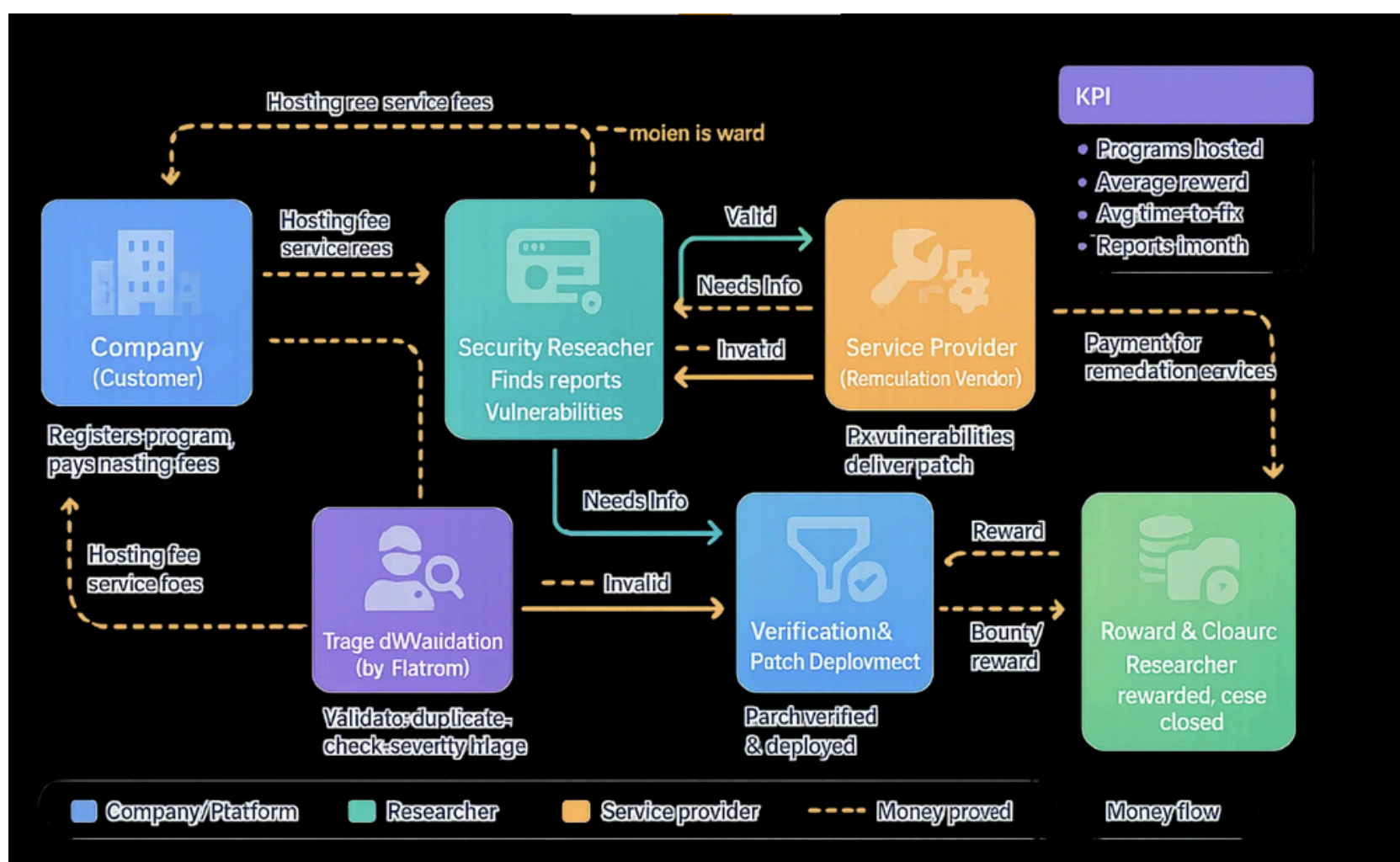
Annual subscription fees from companies.

Commission from bounties paid to researchers.

Risk Mitigation: Companies only provide publicly accessible assets (domains, URLs).

Continuous Testing: Offers 24/7 pentesting as a complement to traditional audits.

Remediation Services: Option to hire experts to fix reported vulnerabilities.



6. Competitive Advantage & Strategic Opportunity

Market Leadership: Egypt Cyber is the first integrated bug bounty platform in Egypt.

Partnerships: Backed by training companies for researcher development.

Ready Talent Pool: Thousands of security researchers are available to join at launch.

7. Strategic Future Outlook

Cybersecurity Market: Valued at \$193.7B in 2024 → expected \$552.3B by 2031.

Bug Bounty Growth: Valued at \$1.52B in 2024 → expected \$5.7B by 2033.

Multiplier Effect: Direct platform revenue + international bounty income for Egyptian researchers = Egypt positioned as a leader in global cybersecurity.