

PartnerLink Documentation

Developed by Aidan Quach



System Requirements

OS Compatibility: PartnerLink is optimized for Windows 10 and above.

Internet Connectivity: An uninterrupted internet connection is necessary for optimal performance of PartnerLink.

Storage: At least 40 MB of storage is required to run PartnerLink.

What is PartnerLink?

PartnerLink is an educational resource management system tailored for academic institutions. It provides a comprehensive platform for administrators and educators to efficiently oversee educational resources provided by different businesses and organizations the school has access to.

Why PartnerLink?

PartnerLink provides quick, easy access to data. Its user-friendly design allows for easy navigation as opposed to other applications. PartnerLink has a built-in analytics tool, allowing the viewing of data anytime. With a quick, secure login, you could access and manage data on the go.

How is Data stored? Is my data safe?

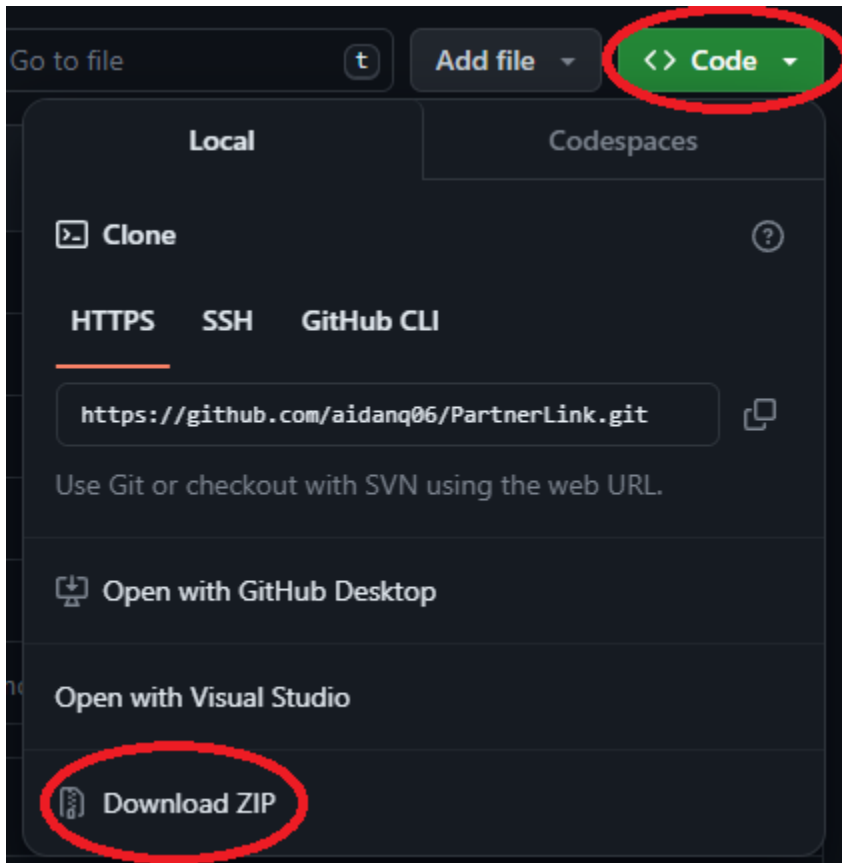
PartnerLink securely stores all data in MongoDB, a persistent data storage that dynamically always backs up data. One of the standout benefits of MongoDB is its ability to handle large volumes of data with high performance and scalability, making it an ideal choice for dynamic educational platforms like PartnerLink. For security, PartnerLink employs robust password encryption, using industry standard SHA256 hashing algorithms to convert passwords into unintelligible strings. This means even if unauthorized access to the database were to occur, the encrypted passwords would remain secure and undecipherable, safeguarding user information against potential data breaches.

Efficiency of PartnerLink

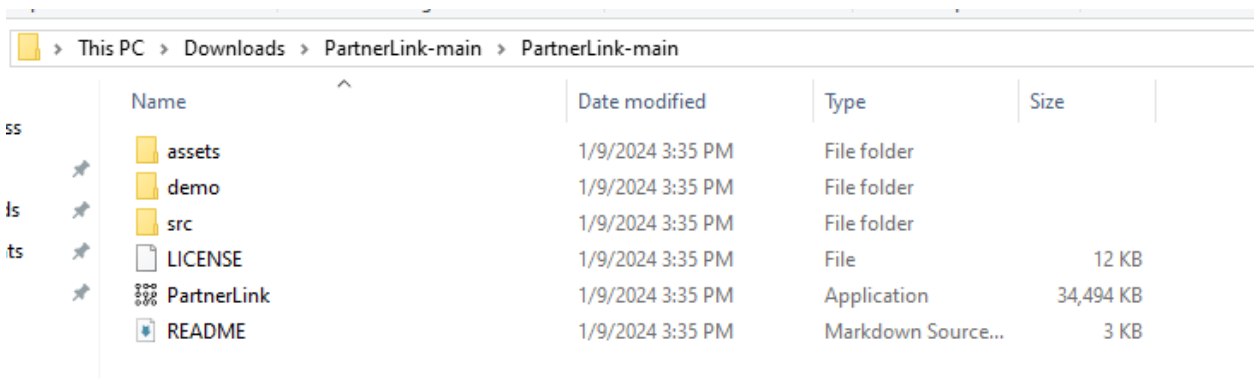
The efficiency of PartnerLink is significantly enhanced by its well-structured architecture, which leverages the principles of object-oriented programming. Using classes and functions, the program makes sure each component is responsible for a specific piece of functionality. This modularity not only reduces redundancy and the number of lines of code but also facilitates easier maintenance and scalability. Efficient code execution is further ensured by optimized functions that perform their tasks with minimal overhead, contributing to the program's overall swift performance. The streamlined scripting approach adopted by PartnerLink, combined with best coding practices, ensures that the system runs smoothly, responds quickly, and provides seamless user experience for educational institutions managing their resources.

Installation Guide

1. Visit the [PartnerLink GitHub Repository](#)
2. Click the green "<> Code" button, then download as ZIP.



3. Unzip the downloaded package to your preferred directory.
4. Confirm that the directory structure matches the repository's layout. (See below for reference)



This PC > Downloads > PartnerLink-main > PartnerLink-main					
	Name	Date modified	Type	Size	
	assets	1/9/2024 3:35 PM	File folder		
	demo	1/9/2024 3:35 PM	File folder		
	src	1/9/2024 3:35 PM	File folder		
	LICENSE	1/9/2024 3:35 PM	File	12 KB	
	PartnerLink	1/9/2024 3:35 PM	Application	34,494 KB	
	README	1/9/2024 3:35 PM	Markdown Source...	3 KB	

5. Run PartnerLink.exe

NOTE: If you are met with a screen displaying “Windows protected your PC” click More Info -> Run Anyway

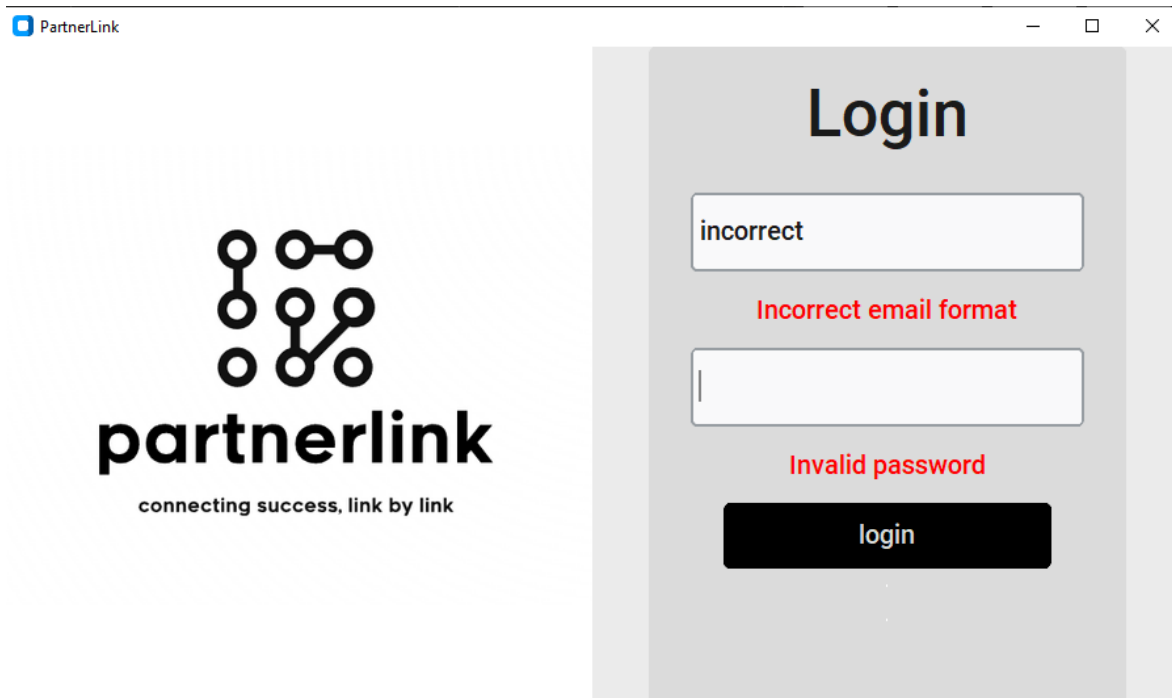


6. PartnerLink is now ready to assist in managing your educational institution's resources.

How do you use PartnerLink?

Login

- To log into PartnerLink, you must sign in with an already created user. You cannot signup for PartnerLink from the login interface, as that would risk unauthorized access to data. For testing purposes, use the login:
Email: test@gmail.com
Password: 123
- The login system has key-input updates, letting you know whether the email you entered is valid or not. If you entered something that isn't acceptable, a red text message will appear underneath the entry,



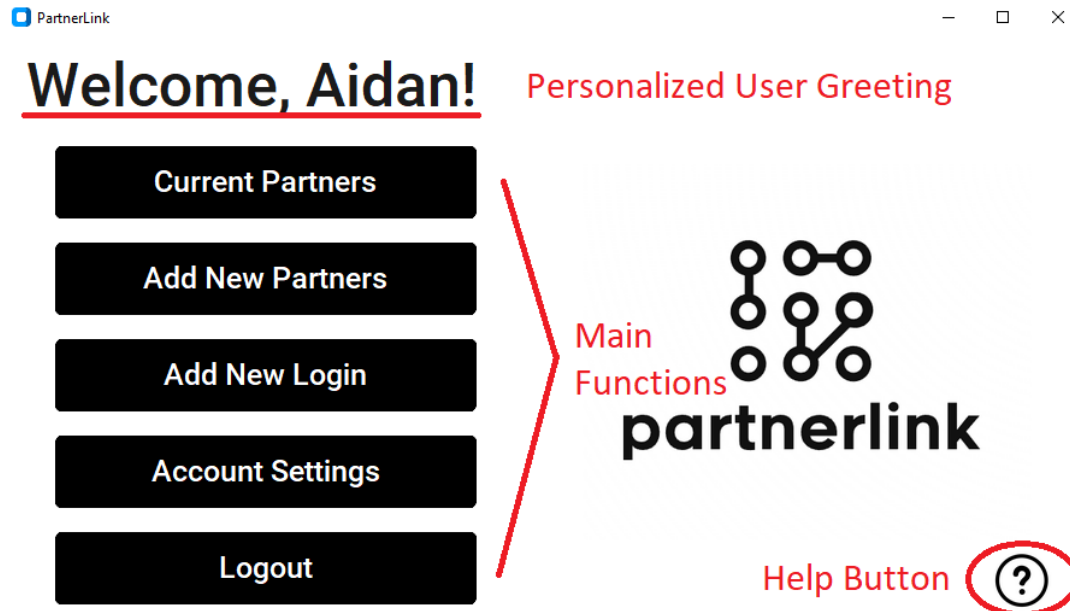
The screenshot shows a web browser window titled "PartnerLink". On the left is the PartnerLink logo, which consists of a stylized network of nodes and lines above the text "partnerlink" and the tagline "connecting success, link by link". On the right is a "Login" form. The form has two input fields. The first field contains the text "incorrect" and has a red error message "Incorrect email format" below it. The second field is empty and has a red error message "Invalid password" below it. At the bottom of the form is a black button labeled "login".

- If one of the fields contains red text and the user attempts to login, it will return an error message, likewise, the input of incorrect credentials when checked with the database will also return an error message.



Two screenshots showing error messages for incorrect credentials. The left screenshot shows a black button labeled "login" with a red error message "credentials did not match our systems" below it. The right screenshot shows a black button labeled "login" with a red error message "invalid credentials" below it.

Main Menu

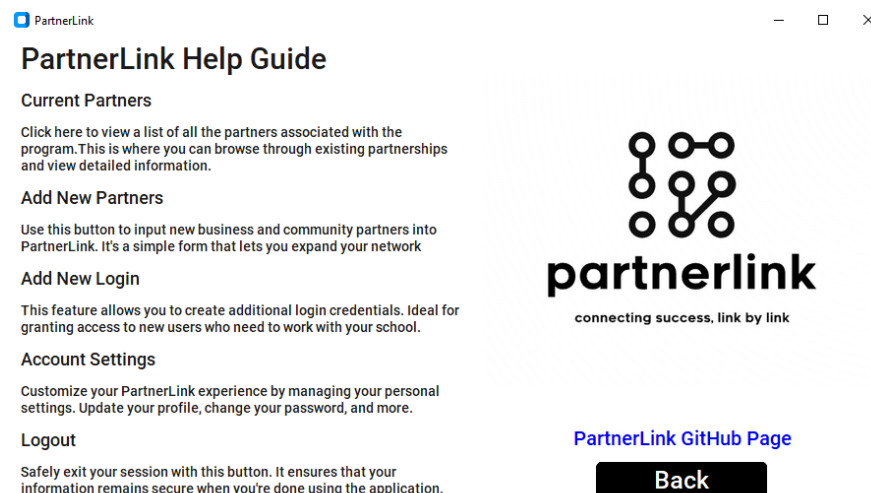


Personalized User Greeting

- The main menu greets the user with the name they picked during sign up.

Help Button

- The help button provides brief help and description on what each of the function does. It also contains a link that redirects the user back to PartnerLink's GitHub page, in which the user can access README and the Documentation which will assist them further.



Current Partners

PartnerLink

Search...

Search

Company Name	Type	Phone Number
Test Company	For-Profit Organization	813-219-2977
Green Earth Initiative	Non-Profit Organization	516-714-5451
Quantum Analytics	Corporate Business	556-172-2992
New Horizons	Non-Profit Organization	876-380-3140
Community Fitness Hub	Local Business	196-594-1493
City Book Haven	Local Business	269-162-9697
Helping Hands	Non-Profit Organization	991-904-6401
Educational Outreach Program	Government Affiliated	796-838-1453
Educational Outreach Program	Government Affiliated	489-927-1113
Urban Development Board	Government Affiliated	495-430-9448
Health Horizon Pharma	For-Profit Organization	391-628-4752
Public Health Services	Government Affiliated	305-464-5456
Educational Outreach Program	Government Affiliated	430-718-2897
Future Builders Inc.	For-Profit Organization	342-356-5477
Health Horizon Pharma	For-Profit Organization	261-238-7260
Tech Innovate	For-Profit Organization	784-463-1009
Fresh & Local Cafe	Local Business	405-766-8893

Back

Delete

More Details

- Provides a table of all the companies that the school has collected and stored. In the table, the user can see the company names, the type of company, and the phone number for accessing each company.
- The Current Partners function includes several other nested functions, including a search, delete, and more details button.
 - o The search button allows for the searching of specific keywords within the table.

PartnerLink

Local Business

Search

Company Name	Type	Phone Number
Community Fitness Hub	Local Business	196-594-1493
City Book Haven	Local Business	269-162-9697
Fresh & Local Cafe	Local Business	405-766-8893
Local Harvest Groceries	Local Business	596-217-5585
Community Fitness Hub	Local Business	209-261-1370

Back

Delete

More Details

- The Delete function allows the user to delete a specific entry within the table.
- The More Details function allows the user to view more information on a selected company or business. In here, the user can see the description of the business, the resources it provides, and their contact information.

Helping Hands ← Organization Name

Non-Profit Organization ← Type of organization

Dedicated to making a positive impact in the community, fostering growth and support for those in need. Organization description

Resources

Offers volunteer opportunities and community service projects, with a focus on student personal development.

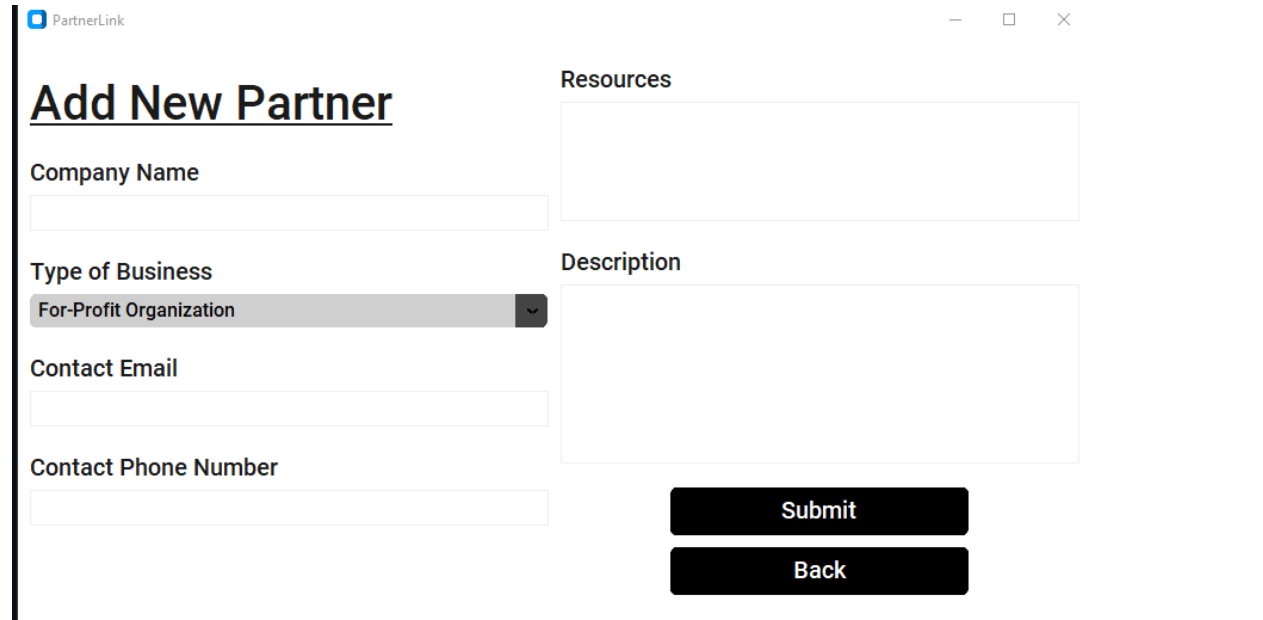
Contact Phone: 991-904-6401

Contact Email: hhands@partners.com

→ Contact Info

Back

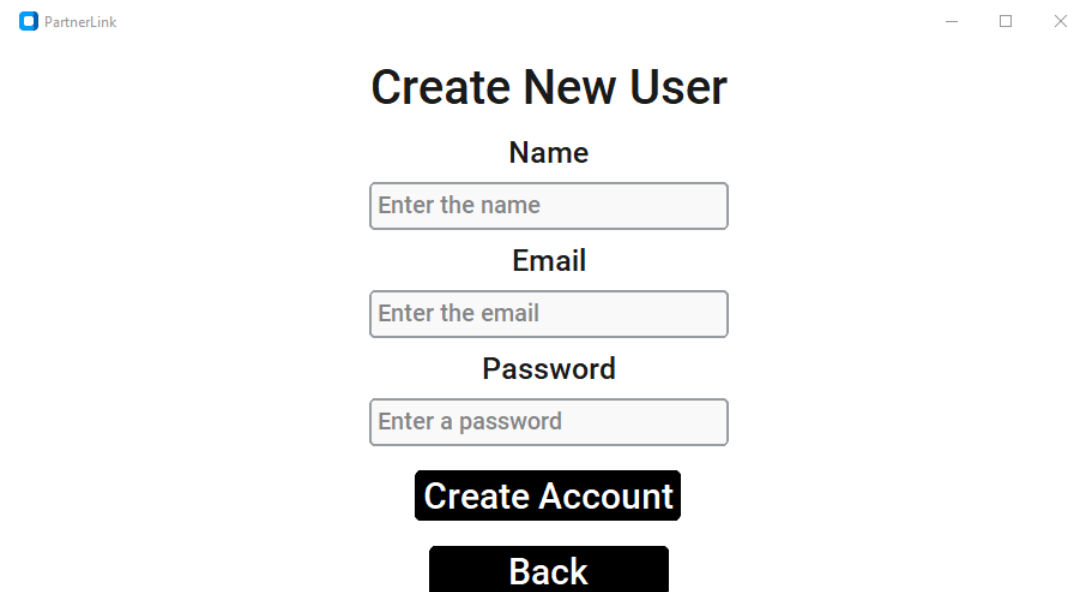
Add New Partners



The screenshot shows a web application window titled 'PartnerLink'. The main heading is 'Add New Partner'. The form is divided into two columns. The left column contains four input fields: 'Company Name', 'Type of Business' (a dropdown menu with 'For-Profit Organization' selected), 'Contact Email', and 'Contact Phone Number'. The right column contains two larger text areas: 'Resources' and 'Description'. At the bottom right of the form are two black buttons: 'Submit' and 'Back'.

- The Add New Partners function allows the user to add more companies to the database.
- There are 6 fields, including a dropdown menu for the user to fill out and submit to get inputted into the database. These fields are error checked, if any field is left blank, it will not submit. There is error checking for the email, just like during the login.

Add New Login



The screenshot shows a web application window titled 'PartnerLink'. The main heading is 'Create New User'. The form is centered and contains three input fields: 'Name' (with placeholder text 'Enter the name'), 'Email' (with placeholder text 'Enter the email'), and 'Password' (with placeholder text 'Enter a password'). Below these fields are two black buttons: 'Create Account' and 'Back'.

- The Add New Login function serves as a “sign up” button. This allows signed in users to add in other school administrators to access PartnerLink.
- It takes in 3 fields, name (the user will be greeted in the main menu with this name), email, and password. This function is error checked. All fields must be completed for the form to submit.

Account Settings

 PartnerLink

— □ ×

Account Settings

Name:

Aidan

Email:

test@gmail.com

Password (leave blank to keep current):

Enter a new password

Submit

Back

- This function allows signed in users to change their name, email, or password. The user doesn't have to change each of the items, only the one(s) that they would like. The password will be kept the same if the entry is left blank, otherwise, the password will be updated with the inputted entry.

Logout

- The Logout button securely logs out the user, allowing the next user to use the program.

Note from Developer

Hello, my name is Aidan Quach, and I am the single developer of PartnerLink. I go to school at Steinbrenner High School, which is located down in Lutz, Florida. PartnerLink is a project made for the Coding and Programming competition of 2023-2024.

PartnerLink serves as a tool to help assist school administrators in tracking and collecting different partners the school has relations with. This project involved in depth learning on new libraries I've had little to no experience in, including Tkinter, CustomTkinter, and MongoDB. Overall, I had fun working and building up PartnerLink from scratch. The journey was challenging, as I was going solo, but also satisfying at the end, knowing I completed the project through hard work and determination. Thank you for using PartnerLink!

Links

<https://github.com/aidanq06/PartnerLink/>

<https://github.com/aidanq06>