



Internship in Partnership with Startup Greece

Introduction

Congratulations! You have successfully made it through the 2nd stage of the application process, where we chose the applicants with the most suitable profile. For the next stage, you will need to complete the following demo task in order for us to evaluate your suitability for the **Developer Intern position at one of Startup Greece's affiliated network of Startups.**

Collaboration with Affiliated Partners

Please note that this demo task involves collaboration with our affiliated partners, who play a crucial role in the evaluation process. As part of this stage, your task performance will be assessed by a third party to ensure a comprehensive evaluation of your skills and compatibility with potential roles. In the event that you do not proceed to the next stage with the initial partner, do not be discouraged. We value your efforts and skills, and we may provide an alternative task or direct you to a different affiliated company where your qualifications may be a better fit. This approach ensures that we find the most suitable placement for your talents within our network.

Make sure to complete the tasks and send it to us for evaluation within 5 days from receiving it.

Task 1: User Authentication API

Your task is to develop a RESTful API for user authentication using a backend programming language of your choice (e.g., Python, Javascript, Node.js). The API should include the following functionalities:

1. **User Registration:** Create an endpoint that accepts a POST request with user information, including name, email, and password. Implement validation for the data and securely store the user details in a database.
2. **User Login:** Implement an endpoint that accepts a POST request with the user's email and password. Validate the credentials and generate a secure access token or session for the authenticated user.
3. **Protected Routes:** Create API endpoints that require authentication to access. These endpoints should only be accessible with a valid access token or session. Implement middleware or authentication mechanisms to validate the access token and authorize access to protected routes.
4. **User Logout:** Implement an endpoint that allows users to log out by invalidating their access token or session.

Please consider the following guidelines:

- Use appropriate HTTP status codes and error handling for each endpoint.
- Store user data securely and implement necessary security measures (e.g., hashing passwords).
- Provide a README file in the repository with instructions on how to set up and run the API.
- Use appropriate coding conventions, documentation, and modular design.

Deliverables:

1. Implement the API functionality using your chosen backend language/framework.
2. Upload the code to a GitHub repository.
3. Provide the link to the repository for evaluation.



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Tasks will be evaluated according to:

- Correctness and completeness of the API implementation.
- Proper handling of authentication, authorization, and error conditions.
- Security measures implemented for storing and validating user credentials.
- Code quality, structure, and documentation.

If you have any questions, feel free to ask. Good luck, and thank you for your efforts!