Python Interview Assignment

# Description

To get a sense of how you approach problems of technical nature. This assignment is a typical project required as part of a day-to-day workflow at stackArmor. The overall goal of this project is to follow a typical create, read, update, and delete (CRUD) pattern for web applications. The UI does not need to be fancy, i.e., CSS isn’t necessary for this assignment. This assignment should be completed in Python and preferably Django. Utilizing Django can speed up this process exceptionally, but the “Django Admin” cannot be used to avoid creating the pages themselves. This project will be a software inventory system to track a customer’s installed software. For example, a user would utilize this system to look up a customer and see all software titles associated with that customer. When completed, please provide a GitHub/Gitlab URL to the project for review.

## Task 1

Implement sign-in and sign-up for user accounts with username/email and password.

* Implementing features such as “forgot password,” etc., are not required.

## Task 2

This will focus on the ability to do CRUD actions on customer entities.

* Ability to create a customer via an HTML form
  + Only customer name is required
* HTML page to list customers in the system
* Button or form to delete a customer
* Button or form to edit a customer

### Task 3

This will focus on the ability to do CRUD actions on software entities.

* Ability to create a software entity via an HTML form
  + Software title
  + Software image (JPG or PNG)
    - This would typically be a logo (ex. PowerPoint logo)
  + Ability to associate with a customer
* HTML page to list software entities in the system
* Button or form to delete a software entity
* Button or form to edit a software entity
  + Edit page should display the associated image, not just a link.