

# Python Project - (Project 1)

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## Bootcamp-Project-1-Python

Based on what you've learned until now, create a project of your choosing (impress us with your imagination). This project must at least satisfy the following minimum requirements:

- Use at least 3 different data types.
- Use lists or dictionaries or tuples or sets.
- Use loops.
- Use functions that return an output.
- Use conditions.
- Use a Lambda function.

## **Example#1: An online Grocery Store**

**Overview:** An online store that sells fruits to customers. The customers should be able to do the following tasks for the store to function properly.

**As a customer I should be able to do the following:**

- Browse Products.
- View the product info (summary, specs, price, quantity, etc.)
- Search for Products.
- Get recommendations for my next purchase based on my purchase history.
- Add Products to the shopping cart.
- Remove a product from the shopping cart.
- List the products in my shopping cart.
- Continue to checkout.
- Fill in my address for delivery.
- Get a receipt for my purchases.
- Check delivery status.

## **Example#2: Strong Personal Password**

**Overview:** A system creates personal random passwords, these passwords should be

strong enough and contain capital and small letters, numbers, and symbols.

Therefore, you need to do the following.

- Save all letters in a list.
- Ask the user about password length.
- Shuffle passwords.
- Use loops to create a password.
- Choose a random letter from letters by using random choice.
- Add a random letter to the password.
- Write a function that adds capital letters to the password.
- Write a function that adds random numbers to the password.
- Write a function that adds symbols to the password.
- Final Randomization to the final pattern.
- Print the Final Password.

## Example#3: Riyadh Season Reservations

**Overview:** An online website that shows different events. The visitor should be able to do the following tasks for the store to function properly.

As a visitor, I should be able to do the following:

- Browse Events.
- View the event info (summary, time, price, place, etc.)
- Search for an Event.
- Get recommendations for my next visit based on my ticket purchase history.
- Add tickets to the shopping cart.
- Remove a ticket from the shopping cart.
- List the tickets in my shopping cart.
- Modify the number of the ticket (by default one ticket).
- Continue to checkout.
- Get a QR code for my ticket.
- Review my coming events.

### Final Deliverables:

- Notebook file(.ipynb).
- README.md file. ([Markdown Files Cheatsheet](#) & [this guide](#))
- Due Date: Sun, 28 July, at 09:00 a.m.
- The Final presentation will be on Sunday (5 min for each group).