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1. Document Basic Functionalities

- We're developing a password generator that takes the requested inputs of the user and outputs a password. This system will be able to handle length, case sensitivity, special character, and integer/number requests.

Length
- Input: Any desired password length
- Process: Store this value
- Output: Confirmation of achievement

Case Sensitivity
- Input: Any case sensitive requests
- Process: Store their statement
- Output: Confirmation of achievement

Special Character
- Input: Any special character requests
- Process: Store this value
- Output: Confirmation of achievement

Integer/Number
- Input: Any integer/number requests
- Process: Store this value
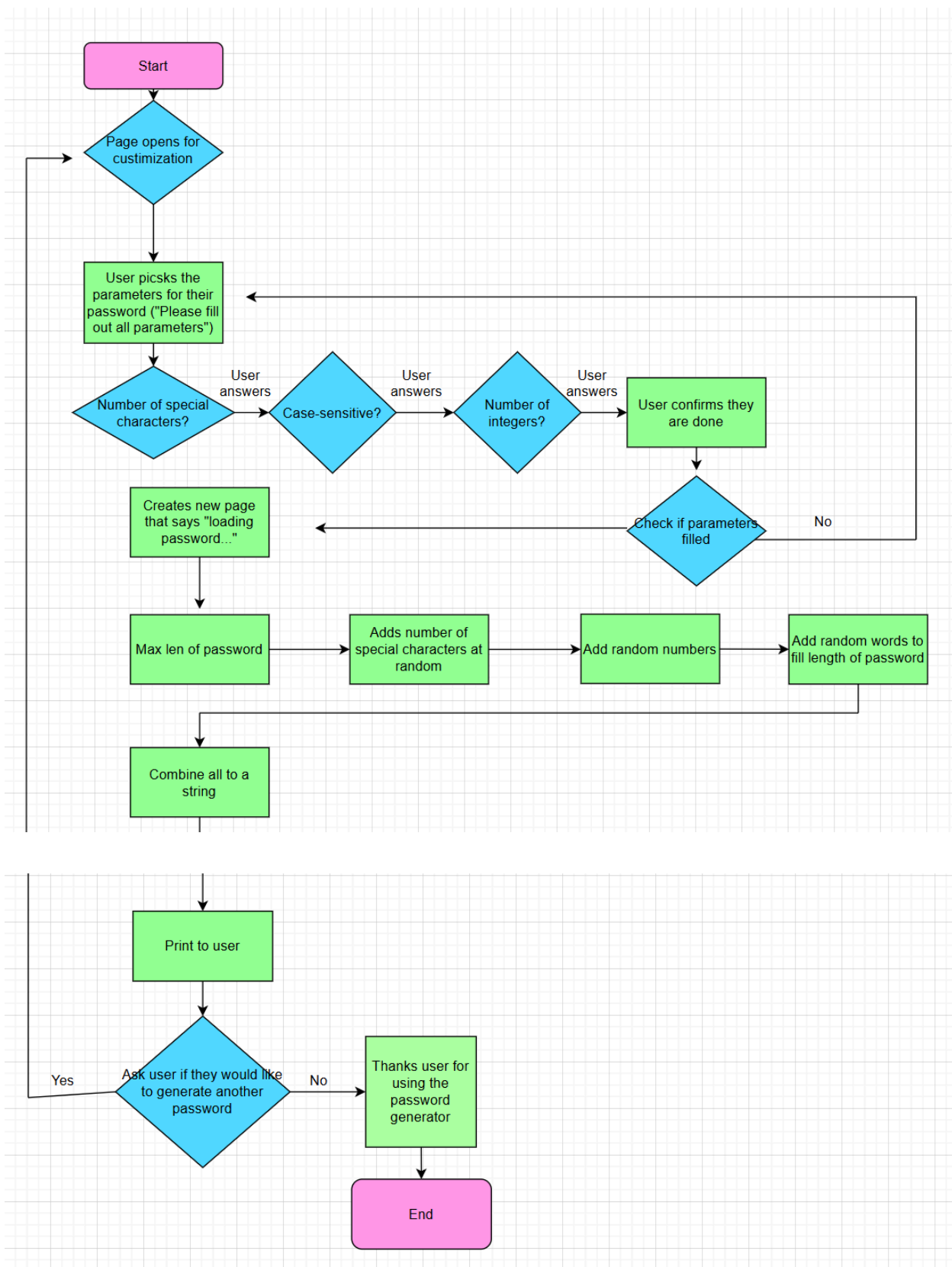- Output: Confirmation of achievement

Generate Password
- Input: Confirmation to view
- Process: Format password with the list of their requests
- Output: Display password

2. System Overview – Input, Process, and Output

- **Input:** Password parameters (length, case sensitive, numbers of integers, and number of special characters)

- **Process:** Store users parameters for their password and set them as parameters for the generator. Then generate the user's random password.

- **Output:** Print the user's password based on their parameters

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```
                    ┌──────────┐
                    │  Start   │
                    └────┬─────┘
                         │
                    ◇ Page opens for
                      custimization ◇
                         │
                    ┌──────────────┐
                    │ User picsks the│
                    │ parameters for their│
                    │ password ("Please fill│
                    │ out all parameters") │
                    └──────────────┘
```

Start

Page opens for custimization

User picsks the parameters for their password ("Please fill out all parameters")

Number of special characters? — User answers → Case-sensitive? — User answers → Number of integers? — User answers → User confirms they are done

Creates new page that says "loading password..."

Check if parameters filled — No

Max len of password → Adds number of special characters at random → Add random numbers → Add random words to fill length of password

Combine all to a string

Print to user

Ask user if they would like to generate another password — Yes / No

Thanks user for using the password generator

End

Link to github: Eric-c3/python-collaboration