

## 3. JavaScript Challenge: Password Generator

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**Due** Aug 16 by 11:59pm    **Points** 100    **Submitting** a text entry box or a website url

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### Your Task

This week's Challenge requires you to create an application that an employee can use to generate a random password based on criteria they've selected. This app will run in the browser, and will feature dynamically updated HTML and CSS powered by JavaScript code that you write. It will have a clean and polished user interface that is responsive, ensuring that it adapts to multiple screen sizes. This week's coursework will teach you all the skills you need to succeed in this assignment.

The password can include special characters. If you're unfamiliar with these, see this [list of Password Special Characters from the OWASP Foundation](https://www.owasp.org/index.php/Password_special_characters) [.\(https://www.owasp.org/index.php/Password\\_special\\_characters\)](https://www.owasp.org/index.php/Password_special_characters).

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### User Story

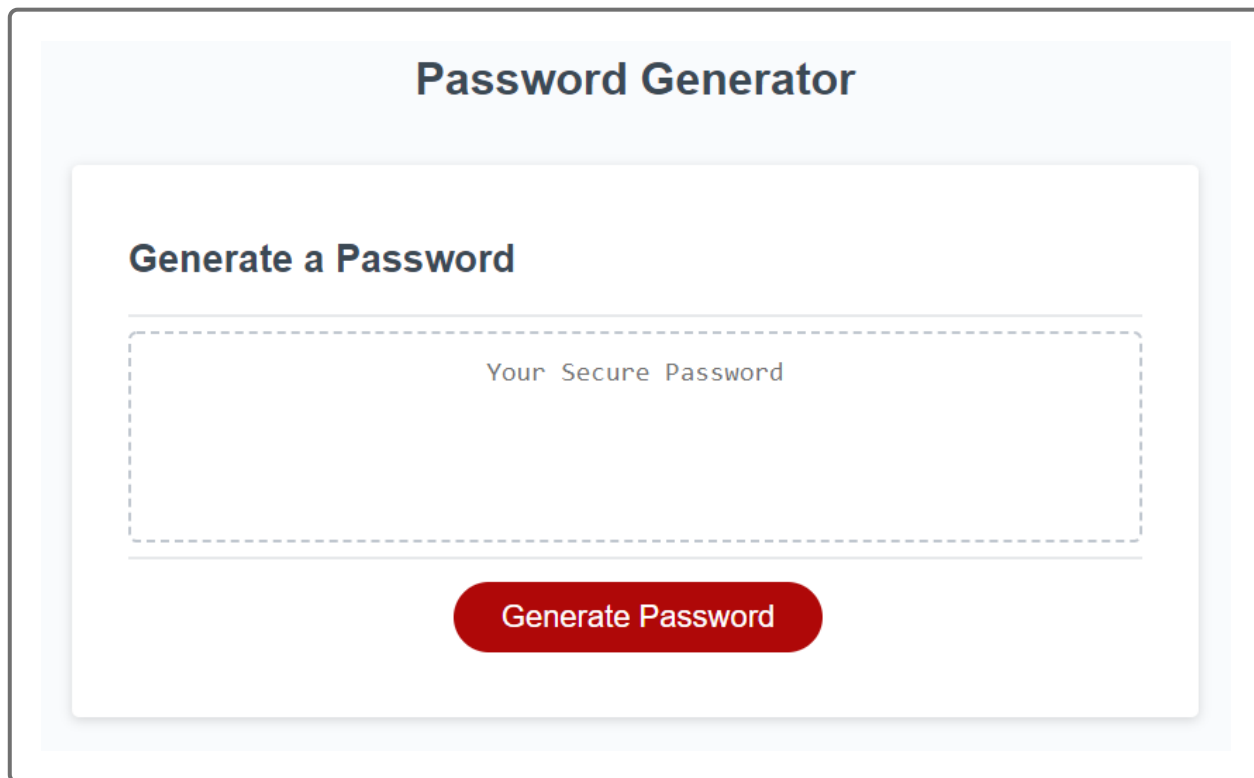
AS AN employee with access to sensitive data  
I WANT to randomly generate a password that meets certain criteria  
SO THAT I can create a strong password that provides greater security

## Acceptance Criteria

GIVEN I need a new, secure password  
WHEN I click the button to generate a password  
THEN I am presented with a series of prompts for password criteria  
WHEN prompted for password criteria  
THEN I select which criteria to include in the password  
WHEN prompted for the length of the password  
THEN I choose a length of at least 8 characters and no more than 128 characters  
WHEN prompted for character types to include in the password  
THEN I choose lowercase, uppercase, numeric, and/or special characters  
WHEN I answer each prompt  
THEN my input should be validated and at least one character type should be selected  
WHEN all prompts are answered  
THEN a password is generated that matches the selected criteria  
WHEN the password is generated  
THEN the password is either displayed in an alert or written to the page

## Mock-Up

The following image shows the web application's appearance and functionality:



## How to Complete the Challenge

Follow these steps to complete the challenge:

1. Clone the [starter code](https://github.com/coding-boot-camp/friendly-parakeet) [\\_ \(https://github.com/coding-boot-camp/friendly-parakeet\)\\_](https://github.com/coding-boot-camp/friendly-parakeet).
2. Modify the code to meet the Acceptance Criteria.
3. Ensure that your work meets the full list of grading requirements below.
4. Reach out to your classmates and instructional support team for help if you need it.
5. Follow the submission instructions.

## NOTE

After this week, the preceding steps will not be included in Challenge instructions in order to simulate a typical work experience where the developer determines how to solve an issue on their own.

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## Grading Requirements

This challenge is graded based on the following criteria:

### Technical Acceptance Criteria: 40%

- Satisfies all of the above acceptance criteria plus the following:
  - The Challenge should not produce any errors in the console when you inspect it using Chrome DevTools.

### Deployment: 32%

- Application deployed at live URL.
- Application loads with no errors.
- Application GitHub URL submitted.
- GitHub repository that contains application code.

### Application Quality: 15%

- Application user experience is intuitive and easy to navigate.
- Application user interface style is clean and polished.

- Application resembles the mock-up functionality provided in the Challenge instructions.

## Repository Quality: 13%

- Repository has a unique name.
  - Repository follows best practices for file structure and naming conventions.
  - Repository follows best practices for class/id naming conventions, indentation, quality comments, etc.
  - Repository contains multiple descriptive commit messages.
  - Repository contains quality README file with description, screenshot, and link to deployed application.
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## How to Submit the Challenge

You are required to submit BOTH of the following for review:

- The URL of the deployed application.
- The URL of the GitHub repository. Give the repository a unique name and include a README describing the project.

### NOTE

You are allowed to miss up to two Challenge assignments and still earn your certificate. If you complete all Challenge assignments, your lowest two grades will be dropped. If you wish to skip this assignment, click



Submit then indicate you are skipping by typing “I choose to skip this assignment” in the text box.

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