User Documentation

Programming Pioneers: Easy Plots
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Introduction to Easy Plots:

- Easy Plots is a web application that allows the user to develop aesthetically appealing plots in an easy to use manner. By implementing Easy Plots as a web application we allow the user to access Easy Plots from any device that is connected to the internet. Easy Plots aims to be user friendly and bring the power of program language plot building to a 'clickable', and simple, graphic user interface.

How to Sign Up

- Sign up with Easy plots is simple. When you first access the page or immediately after logging out you will be automatically routed to the login page.
- From the login page, click 'Sign Up' in the upper left corner of the navigation bar.
- Once the 'Sign Up' page is loaded, fill out the username, email, password and password confirmation fields, then submit.
    - For the sign up information to be accepted you must
        1. Have an email that matches typical email format (must include an @ and . within the email)
        2. Have a password of at least 7 characters.
        3. 'Password' and 'Password Confirmation' must match.
- Once you sign up, your information will be stored and required for future login.

How to Login

- Logging into Easy Plots is very easy. When accessing the web app you will be taken to the login page initially.
- Simply enter your email and password and click submit.

How to Logout

- To logout of Easy Plots simply click 'Logout' in the upper left corner of the webpage inside the navigation bar.
    - Logout will occur and you will be redirected to the login page.

How to Upload a .csv

- To upload a .csv file you must first log in to Easy Plots.
- Once you log in, you will be routed directly to the page dedicated to uploading your .csv.

- If you are already logged in and at the 'Easy Plot' page, navigate to the .csv upload page by clicking 'UploadCSV' in the navigation bar in the upper left corner of the webpage.
- Once on the 'UploadCSV' page, click the 'Choose File' button and select your .csv to upload from your file manager.
- Once selected, the title of the .csv file should appear to the right of the 'Choose File' button.
- Finally, upload the .csv by clicking the 'Submit' button.

How to Plot Data
- Under the current version of Easy Plots, the data from the uploaded .csv is not used to generate the plots. Instead, this data still needs to be entered manually.
- To enter the x-value data, you need to put a single string of values separated by commas with no spaces into the text box with the placeholder "Enter x-axis data." Some examples are given below:
    - The string A,B,C will be interpreted as three values of A, B, and C
    - The string 1,2,3 will be interpreted as three values of 1, 2, and 3
    - The string Alpha,Beta,Charlie will be interpreted as three values of Alpha, Beta, and Charlie
- To enter the y-value data, you need to put a single string of values separated by commas with no spaces into the text box with the placeholder "Enter y-axis data." These values need to be real numbers. Some examples are given below:
    - The string 1,2,3 will be interpreted as three values of 1, 2, and 3
    - The string 1.1,3.7,6.8 will be interpreted as three values of 1.1, 3.7, and 6.8
- **The values in the y-axis string will be partnered with the values in the x-axis string at the corresponding indices**. For example:
    - x-axis string: A,B,C
    - y-axis string: 1.3,5.2,6.4
    - partnering: A -> 1.3; B -> 5.2; C -> 6.4
- To enter the plot title, fill in the text box with the placeholder "Enter main title."
- To enter the x-axis title, fill in the text box with the placeholder "Enter x-axis title."
- To enter the y-axis title, fill in the text box with the placeholder "Enter y-axis title."