Assignment #1, 3 Requirements

Academic Collaboration Application

Front End & Back End

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Preface:

The application webserver has not yet been set up. As such the functions for front end and back end operate independently of each-other. However, the functions have been written to abide by the protocol(s) defined in the project description so they can be easily integrated with each other once a webserver is acquired.

Chosen Requirements:

1. A user login action requires the client-application to send a login request message
    a. If the login is valid the web-server will send a login response.
    b. If the login is not valid the web-server will send an error response
    c. Valid is defined: if the name and password match an entry within the database.
2. A user sign up action requires the client-application to send a sign-up request message
    a. If the sign-up is valid the web-server will send a login response.
    b. If the sign-up is not valid the web-server will send an error response.
    c. Valid is defined: if the username is not in the database and the password is 8 characters long.
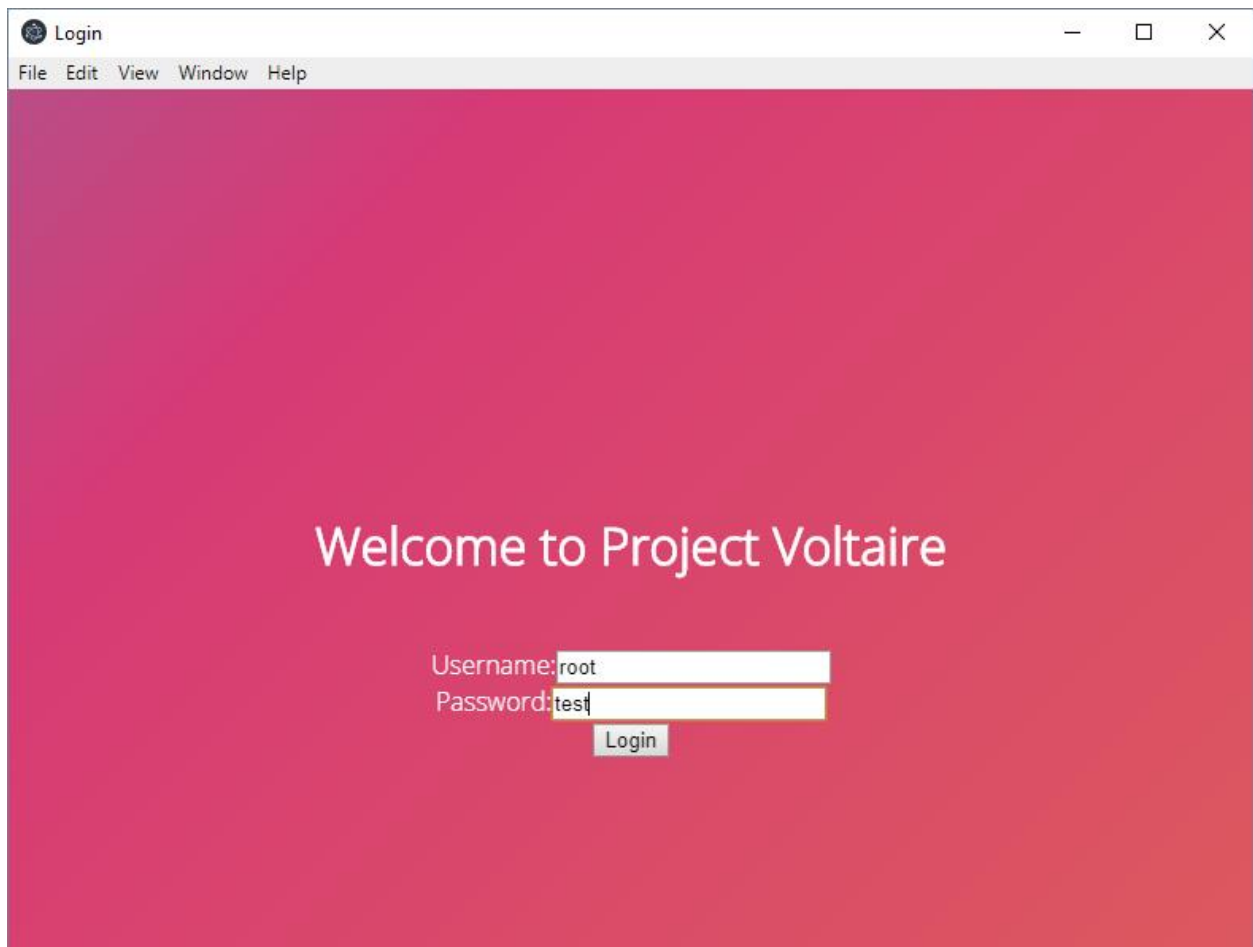3. Users will be able to logout of the application.
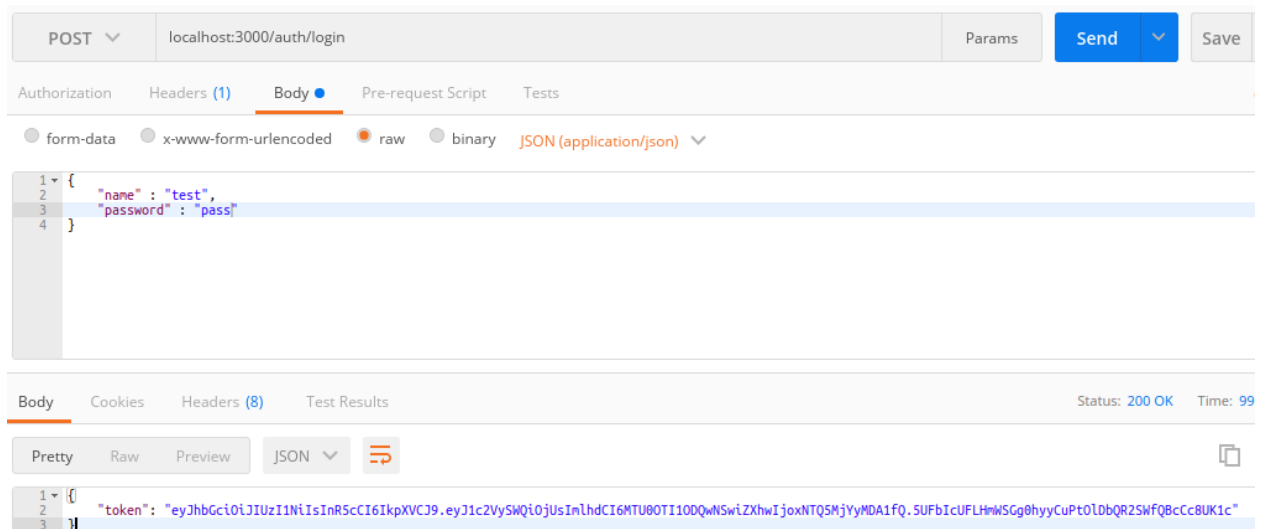
Screenshots:

1. Login

Upon entering valid information, the form shown in Interface Figure 1, will send a request with the users username and password to the webserver (not yet implemented), the application will then wait for a response from the webserver.

API Figure 1 displays the formatted login request and response that is posted and then returned by the web API. The first section "{'name':…}" displays the post info generated by the forms login request. The second section "{'token':…}" displays the return info generated by the API calling functions to validate a user login.
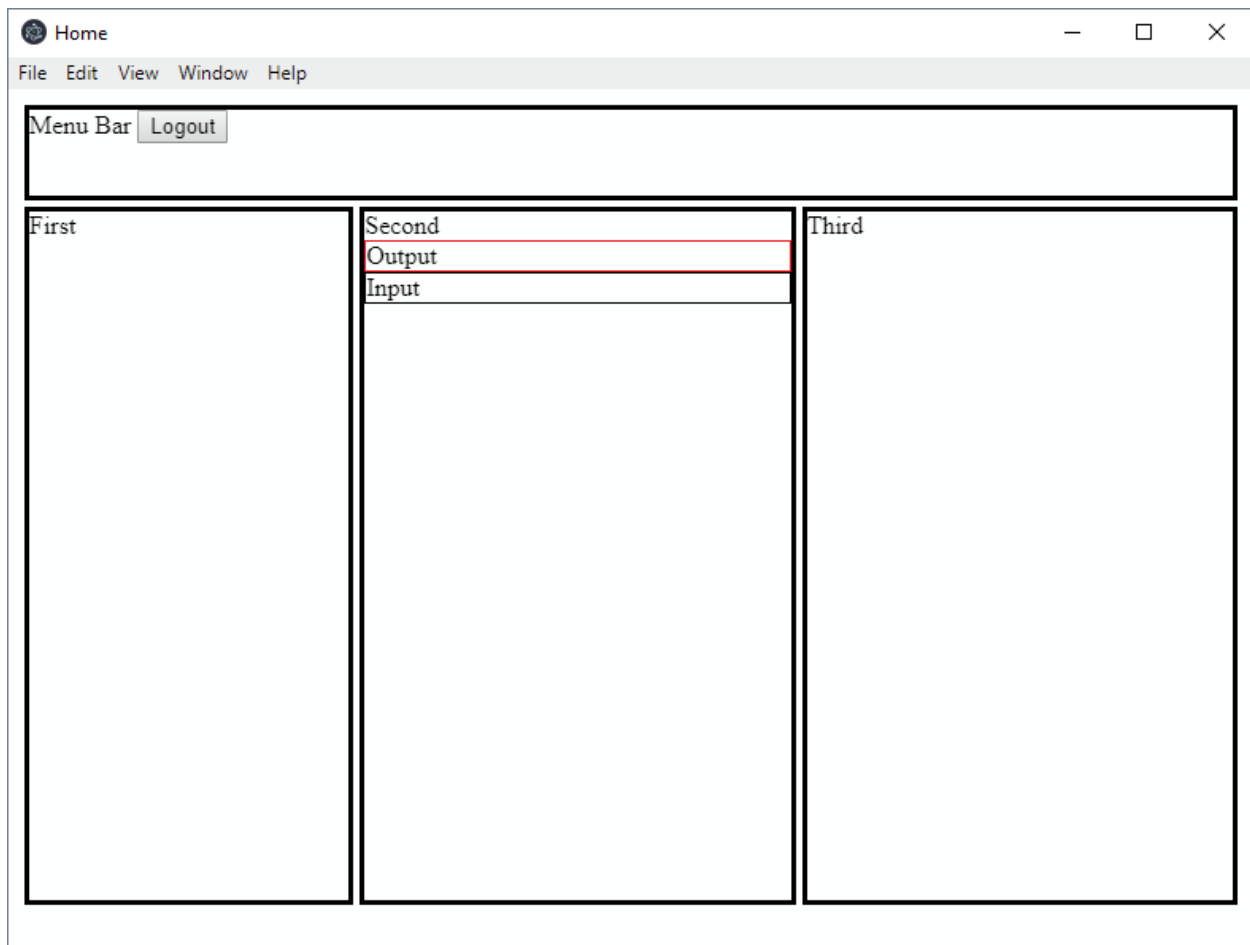
If the information is valid as defined in the project description, the user will be redirected to the main app home as shown below and a session variable will be set to match the returned token.

Interface Figure 1: Login Form
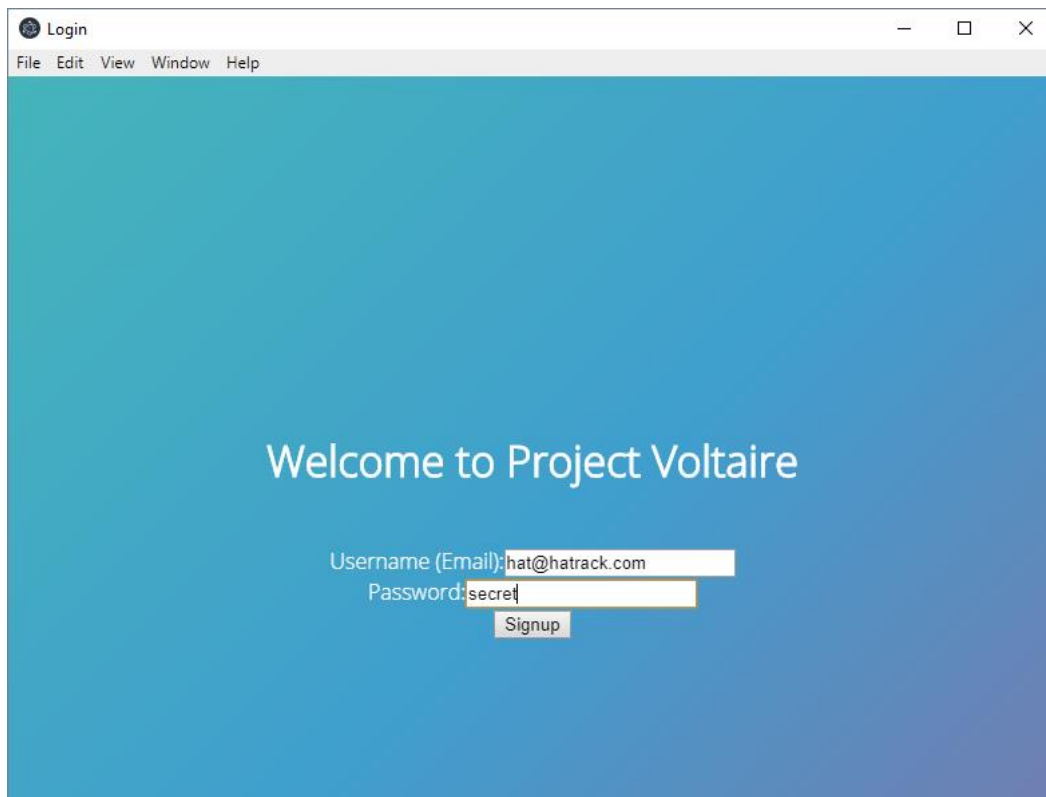

API Figure 1: Login Response

Interface Figure 2: Home Interface
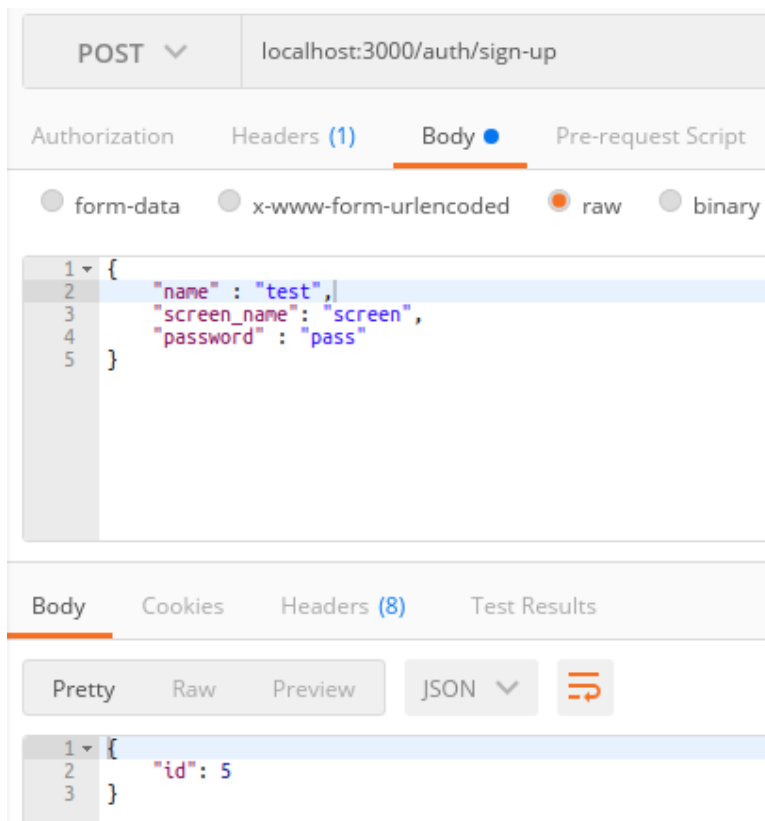
2. **Signup**

Upon entering valid information, the form shown in Interface Figure 3, will send a request with the users chosen username and password to the webserver (not yet implemented), the application will then wait for a response from the webserver as.

API Figure 2 displays the formatted signup request and response that is posted and then returned by the web API. The first section "{'name':…}" displays the post info generated by the forms login request. The second section "{'id:…}" displays the return info generated by the API calling functions to validate a signup request.

If the information is valid as defined in the project description, the users account will be created and then the user will be redirected to the login page.

Interface Figure 3: Signup Form

API Figure 2: Signup Response

3. **Logout**

   See Interface Figure 2. As shown in the top left there is a logout button. If the user clicks the button, the session info will be cleared, and the user will be returned to the login page shown in Interface Figure 1. As logging out is a local activity there is no associated back end API request currently.