

## GET /history

**Description:** This endpoint retrieves the transaction history for the logged-in user.

**Authentication:** The user must be logged in (authenticated) to access this endpoint.

**Parameters:** None

**Response:**

- **Status Code 200 (OK):** Transaction history retrieved successfully.
- **Content-Type:** text/html
- **Body:** The response body contains an HTML template named "history.html" displaying the transaction history.
- **Status Code 401 (Unauthorized):** The user is not logged in.
- **Body:** An error message or a login form may be displayed.

## POST /buy

**Description:** This endpoint allows the user to buy shares of a stock.

**Authentication:** The user must be logged in (authenticated) to access this endpoint.

**Parameters:**

- symbol (string): The stock symbol to buy.
- shares (integer): The number of shares to purchase.

**Response:**

- **Status Code 200 (OK):** The purchase is successful, and the user's cash is updated.
- **Content-Type:** text/html
- **Body:** Redirects the user to the home page.
- **Status Code 400 (Bad Request):** Invalid input data.
- **Body:** An error message describing the issue (e.g., invalid symbol or share count).

- **Status Code 403 (Forbidden):** Insufficient funds to make the purchase.
- **Body:** An error message indicating that the user does not have enough cash.

### GET /quote

**Description:** This endpoint allows the user to retrieve a stock quote.

**Authentication:** The user must be logged in (authenticated) to access this endpoint.

#### **Parameters:**

- symbol (string): The stock symbol for which to retrieve a quote.

#### **Response:**

- **Status Code 200 (OK):** The stock quote is retrieved successfully.
- **Content-Type:** text/html
- **Body:** Displays the stock name, symbol, and price.
- **Status Code 400 (Bad Request):** Invalid stock symbol.
- **Body:** An error message indicating that the stock symbol is invalid.

### POST /signup

**Description:** This endpoint allows a new user to register.

**Authentication:** None, as this endpoint is for user registration.

#### **Parameters:**

- username (string): The chosen username for registration.
- password (string): The chosen password for registration.
- confirmation (string): Password confirmation.

#### **Response:**

- **Status Code 200 (OK):** User registration is successful.

- **Content-Type:** text/html
- **Body:** Redirects the user to the home page after successful registration.
- **Status Code 400 (Bad Request):** Invalid input data or username already in use.
- **Body:** An error message indicating the issue (e.g., empty fields, non-matching passwords, or username in use).

## **POST /sell**

**Description:** This endpoint allows the user to sell shares of a stock.

**Authentication:** The user must be logged in (authenticated) to access this endpoint.

### **Parameters:**

- symbol (string): The stock symbol to sell.
- shares (integer): The number of shares to sell.

### **Response:**

- **Status Code 200 (OK):** The sale is successful, and the user's cash is updated.
- **Content-Type:** text/html
- **Body:** Redirects the user to the home page.
- **Status Code 400 (Bad Request):** Invalid input data or insufficient shares to sell.
- **Body:** An error message indicating the issue (e.g., invalid symbol, share count, or insufficient shares).

## **GET /login**

**Description:** This endpoint allows a user to log in.

**Authentication:** None, as this endpoint is for user login.

### **Parameters:**

- username (string): The username.
- password (string): The password.

**Response:**

- **Status Code 200 (OK):** User login is successful.
- **Content-Type:** text/html
- **Body:** Redirects the user to the home page after successful login.
- **Status Code 403 (Forbidden):** Invalid login credentials.
- **Body:** An error message indicating that the username or password is incorrect.

**GET /logout**

**Description:** This endpoint allows a user to log out.

**Authentication:** The user must be logged in (authenticated) to access this endpoint.

**Parameters:** None

**Response:**

- **Status Code 200 (OK):** User logout is successful.
  - **Content-Type:** text/html
  - **Body:** Redirects the user to the login form.