

# Team WINY: Black Box Unit Testing

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**\*We have not yet shown our demo to our team mentor**

## Responsibilities

Irwin and Wanlin: Login/Logout + testing, create account + testing, formatting HTML, added continuous integration, Google Cloud, Black Box Unit Test Cases

Nancy and Yiming: Add stock + testing, search + testing, Class Diagrams, added graph, retrieved stock data from API

## Git repository

<https://github.com/wanlinxie/ASE-marketgame>

## Testing Tool

We have all our tests in our test.py file that can be invoked using pytest.

## Black Box Unit Test Cases

1. User can login successfully: Test both valid email + password combinations (already created accounts) and invalid email + password combinations (not created accounts). Email must always be in the “\_@\_” format or system should tell user to enter a real email address. Invalid email examples would be “hi”, “1234” and boundary conditions would be: “hi@”, “@12”, “@”. Any invalid email + password should show user a red error message saying “Invalid username or password”.
2. User can logout successfully: The logout button should be displayed on every page that the user sees after they login so that they always have the option to logout. Once they click the button, they should be redirected to the login page. Check to see that this happens.
3. User can create account: User should not be able to sign up with an account with an email address that is not in a “\_@\_” format. Cases such as “hi”, “1234”, “hi@”, “@12”, and “@” should not work and the user should be told to enter a real email address. If the passwords that the user enters do not match, the user should see the error on the page. Otherwise, if the user enters an email in a valid form and enters two passwords that match, they will create an account successfully.
4. User can search for stock by ticker: If user searches for a stock with an invalid ticker, they will see an error on the page. If the stock ticker is valid, they will be able to see the stock page with it's name, current price, graph, and be able to add shares of that stock to their portfolio.

5. User can add stock to the portfolio: Once the user specifies the number of shares and cost per share, they will see the newly added stock to their portfolio. If they click “Submit” without entered the necessary fields, they will be shown an error.

## Class Diagrams

