# Blackbox Testing:

## Sign up page

## Equivalence Classes Table

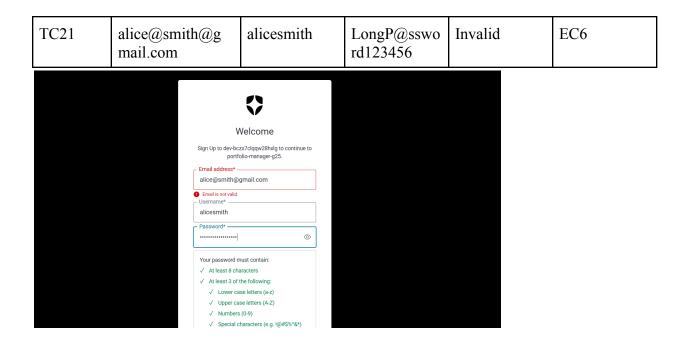
<b>Equivalence class ID</b>	Description	Valid/Invalid
EC1	Properly formatted email	valid
EC2	Pressing continue when email is not filled	Invalid
EC3	Missing @ in email	Invalid
EC4	Missing domain in email	Invalid
EC5	Missing .(dot) in email	Invalid
EC6	Contains invalid character in email	Invalid
EC7	Reusing emails that already have an account	Invalid
EC8	Pressing continue when username is not filled	Invalid
EC9	If username already taken	Invalid
EC10	Contains invalid characters in username(excluding @, _, etc)	Invalid
EC11	Pressing continue without entering password	Invalid
EC12	Minimum 8 characters	Valid
EC13	Contains at least 3 of the following  • Lower case characters(a-z)  • Upper case	Valid

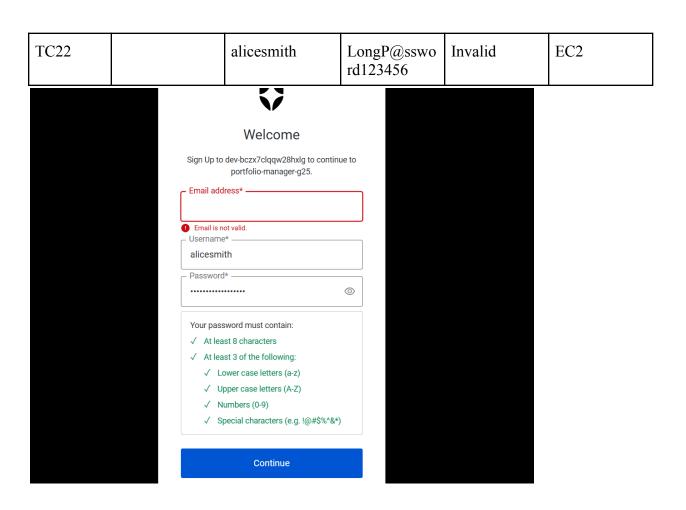
	characters(A-Z)  • Numbers(0-9)  • Special characters(e.g. !@#\$%^&*)	
EC14	Invalid characters	Invalid

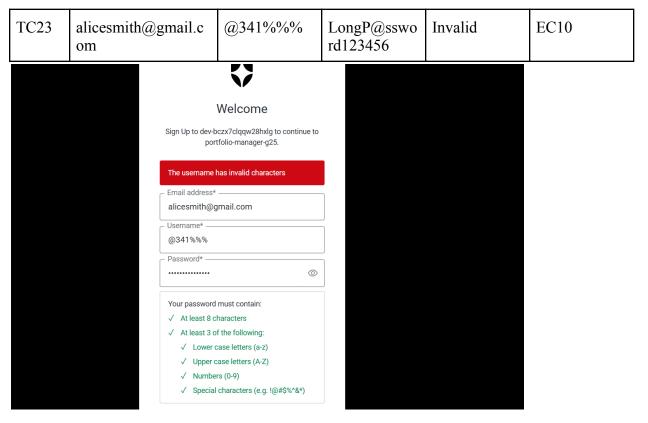
#### Test Cases table:

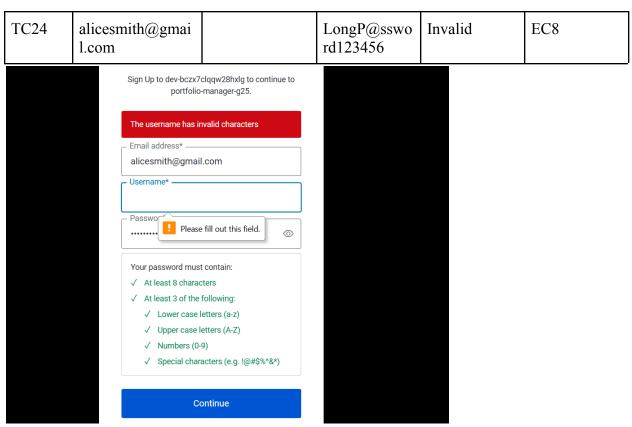
Test case id	Email	Username	Password	Valid/invali d	Classes covered
TC1	alicesmith1@gm ail.com	alicesmith	LongP@ssw ord123456	Valid	EC1, EC12, EC13
TC2	alice@smith@g mail.com	alicesmith2	LongP@ssw ord123456	Invalid	EC6
TC3		alicesmith2	LongP@ssw ord123456	Invalid	EC2
TC4	alicesmithgmail.c	alicesmith2	LongP@ssw ord123456	Invalid	EC3
TC5	alicesmith@gmai	alicesmith2	LongP@ssw ord123456	Invalid	EC4
TC6	alicesmith@gmai	alicesmith2	LongP@ssw ord123456	Invalid	EC5
TC7	alice\$%smith@g mail.com	alicesmith2	LongP@ssw ord123456	Invalid	EC6
TC8	alicesmith1@gm ail.com	alicesmith2	LongP@ssw ord123456	Invalid	EC7
TC9	alicesmith2@gm ail.com		LongP@ssw ord123456	Invalid	EC8
TC10	alicesmith3@gm ail.com	alicesmith2	LongP@ssw ord123456	Invalid	EC9
TC11	alicesmith4@gm	alice@smith	LongP@ssw	Invalid	EC10

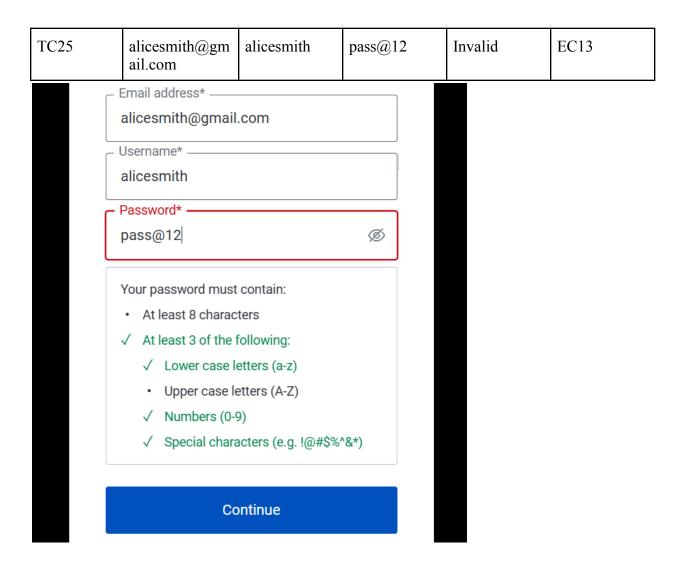
	ail.com		ord123456		
TC12	johnsmith@gmai l.com	johnsmith12	Password@ 1234	Valid	EC1,EC12, EC13
TC13	alicesmith5@gm ail.com	alicesmith3		Invalid	EC11
TC14	alicesmith5@gm ail.com	alicesmith3	Pass12	Invalid	EC12
TC15	alicesmith5@gm ail.com	alicesmith3	PASSWOR D12	Invalid	EC13
TC16	alicesmith5@gm ail.com	alicesmith3	password12	Invalid	EC13
TC17	alicesmith5@gm ail.com	alicesmith3	12345@@ @	Invalid	EC13
TC18	alicesmith5@gm ail.com	alicesmith3	Password	Invalid	EC13
TC19	alicesmith5@gm ail.com	alicesmith5	Ωpass@124	Invalid	EC14
TC20	whillimsmith@g mail.com	willsmith123	Pass@12\$*	Valid	EC1,EC12, EC13











#### Login page

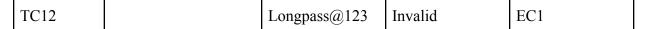
#### Equivalence classes table

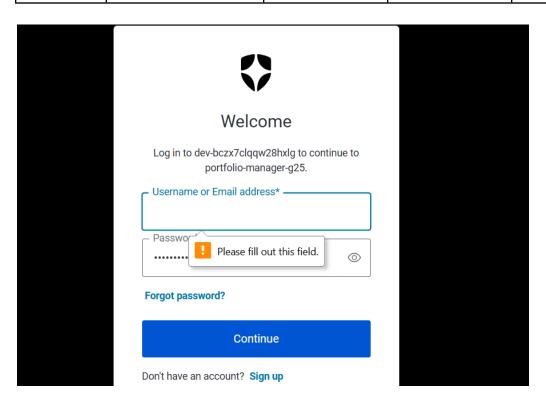
Equivalence class id	Description	Valid/Invalid
EC1	Pressing continue without writing email/username	Invalid
EC2	Entering email that is not signed up	Invalid
EC3	Entering email in invalid format	Invalid

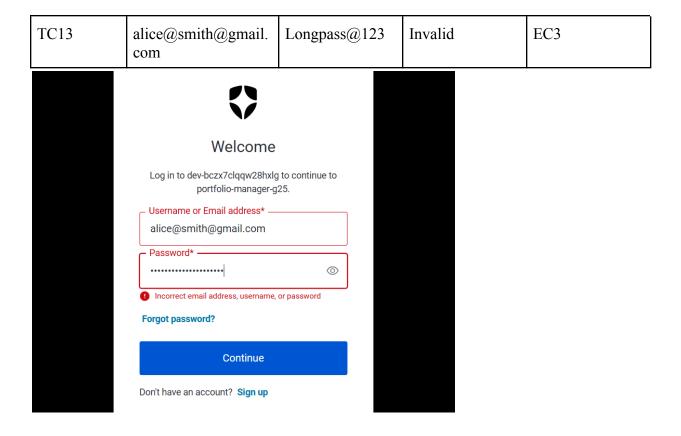
EC4	Pressing continue without entering the password	Invalid
EC5	Entering incorrect password	Invalid
EC6	Entering the email and correct password	Valid

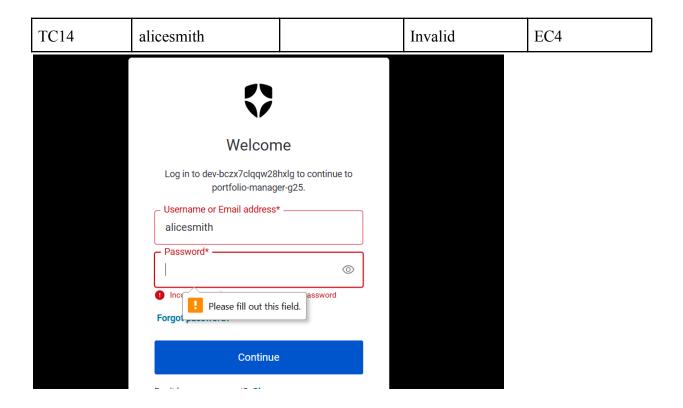
### Test Case Table:

Test case id	email / username	Password	Valid/Invalid	Classes Covered
TC1		Longpass@123	Invalid	EC1
TC2	abcd@gmail.com	Longpass@123	Invalid	EC2
TC3	alicesmith2@gmail.c	Longpass@123	Valid	EC6
TC4	alicesmith2	Longpass@123	Valid	EC6
TC5	alice@smith@gmail.	Longpass@123	Invalid	EC3
TC6	alicesmith		Invalid	EC4
TC7	alicesmith@gmail.co m		Invalid	EC4
TC8	alicesmith1	pass12	Invalid	EC5
TC9	alicesmith@gmail.co m	pass123	Invalid	EC5
TC10	alicesmith@gmail.co m	Longpass@123	Valid	EC6
TC11	alicesmith	Longpass@123	valid	EC6









#### Search Stocks

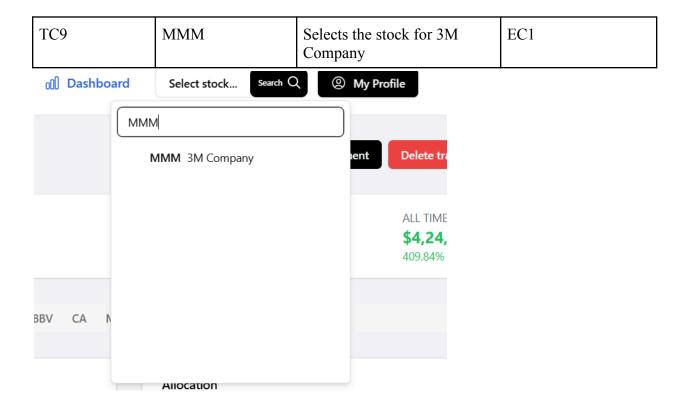
The input field will display results only if there is a match with the entered characters. If no match is found, the output will show "No stocks found." Therefore, there are no invalid tests that could result in errors. But still, we can define the equivalence class as:

#### Equivalence class table:

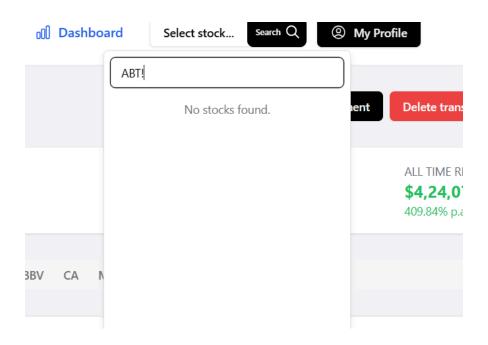
<b>Equivalence class ID</b>	Description	Valid/Invalid
EC1	The input values match some stock name	Valid
EC2	The input values don't match some stock name	Invalid

#### Test Case Table:

Test Case ID	Input	<b>Expected Output</b>	<b>Equivalence Class</b>
TC1	"MMM"	Selects the stock for 3M Company	EC1
TC2	"3M"	Selects the stock for 3M Company	EC1
TC3	"googl"	Selects the stock for Alphabet Inc Class A	EC1
TC4	"ABT!"	No stocks found	EC2
TC5	"A\$T"	No stocks found	EC2
TC6	"aapl123"	No stocks found	EC2
TC7	"AMD_1"	No stocks found	EC2
TC8	"AMD"	Selects the stock for Advanced Micro Devices Inc	EC1







### Add Investment

Equivalence class table:

<b>Equivalence Class ID</b>	Description	Valid/Invalid
EC1	"Enter Stock ID" is left empty.	Invalid
EC2	Non-existing stock is searched	Invalid
EC3	Selecting valid stock	Valid
EC4	Positive integer is entered in Quantity	Valid
EC5	Negative value is entered in Quantity	Invalid
EC6	Quantity is left empty/0 is entered	Invalid

EC7	Decimal value is entered in Quantity	Invalid
EC8	Any positive number is entered in Purchase Price	Valid
EC9	Purchase price is left empty	Invalid
EC10	Negative value or 0 is entered in Purchase price	Invalid
EC11	Transaction date is left empty	Invalid
EC12	Date ahead of the current one is entered	Invalid
EC13	Current or past date is entered	Valid

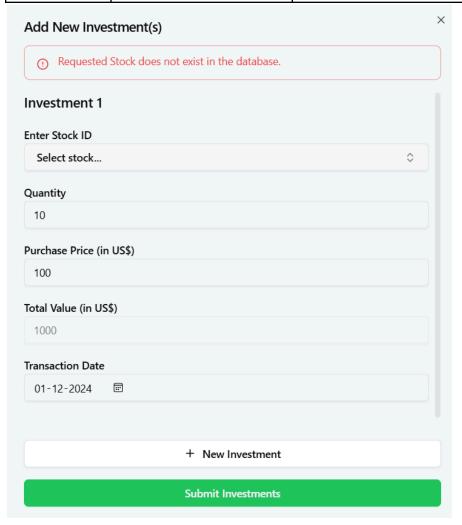
Test Case Table:

Test Case ID	Input fields	<b>Expected Output</b>	Equivalence Class ID(s)
TC1	Stock ID: "" Quantity: 10 Purchase Price: 100 Transaction Date: 01-12-2024	Error: "Stock ID cannot be empty."	EC1
TC2	Stock ID: "XYZ123" Quantity: 10 Purchase Price: 100 Transaction Date: 01-12-2024	Error: "Stock not found."	EC2
TC3	Stock ID: "AAPL" Quantity: 10 Purchase Price: 100 Transaction Date: 01-12-2024	Success: "Investment added successfully."	EC3, EC4, EC8. EC13
TC5	Stock ID: "AAPL" Quantity: "" Purchase Price: 100 Transaction	Error: "Quantity cannot be empty."	EC6

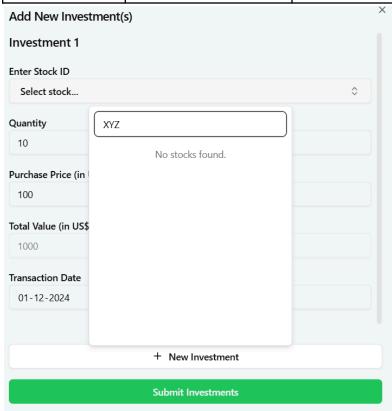
	Date:01-12-2024		
TC6	Stock ID: "AAPL" Quantity: 10.5 Purchase Price: 100 Transaction Date: 01-12-2024	Error: "Quantity must be a positive integer."	EC7
TC7	Stock ID: "AAPL" Quantity: 10 Purchase Price: "" Transaction Date: 01-12-2024	Error: "Purchase price cannot be empty."	EC9
TC8	Stock ID: "AAPL" Quantity: 10 Purchase Price: 100 Transaction Date: ""	Error: "Transaction date cannot be empty."	EC11
TC9	Stock ID: "AAPL" Quantity: 10 Purchase Price: 100 Transaction Date: 01-01-2026	Error: "Transaction date cannot be in the future."	EC12
TC10	Stock ID: "AAPL" Quantity: 10 Purchase Price: 0 Transaction Date: 01-12-2024	Error: "Purchase price must be a positive number"	EC10
TC11	Stock ID: "AAPL" Quantity: 10 Purchase Price: -100 Transaction Date: 01-12-2024	Error: "Purchase price must be a positive number"	EC4
TC12	Stock ID: "AAPL" Quantity: 0 Purchase Price: 100 Transaction Date: 01-12-2024	Error: "Quantity must be a positive integer."	EC6
TC13	Stock ID: "GOOG" Quantity: 1000 Purchase Price: 500	Success: "Investment added successfully."	EC3, EC4, EC8, EC13

	Transaction Date: 01-01-2022		
TC14	Stock ID: "GOOG" Quantity: 10 Purchase Price: 5000 Transaction Date: 01-01-2022	Success: "Investment added successfully."	EC3, EC4, EC8, EC13

	TC15	Stock ID: "" Quantity: 10 Purchase Price: 100 Transaction Date: 01-12-2024	Error: "Stock ID cannot be empty.	EC1
- 1				



TC16	Stock ID: "XYZ123" Quantity: 10 Purchase Price: 100	Error: "Stock not found."	EC2
	Transaction Date: 01-12-2024		



TC17	Stock ID: "AAPL" Quantity: 1.2 Purchase Price: 200 Transaction Date: 01-12-2024	Error: "Quantity must be an integer."	EC7
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