Test Case ID	User Story ID	Description	Test Steps	Expected Results	Actual Results	Status
TCIV-8	IV7	User opens a stock chart for a specific company (e.g., Apple). The platform successfully identifies and displays the current chart pattern (e.g., Head and Shoulders).	1. User navigates to the stock chart for a particular company (e.g., Apple).	The platform displays the stock chart and identifies a pattern (e.g., Head and Shoulders) with a visual representation and/or textual label.	The platform displays the stock chart and identifies the expected pattern.	Pass
TCIV-9	IV7	User opens a stock chart with limited data points. The platform displays a message indicating insufficient data to determine a pattern.	1. User navigates to the stock chart for a company with minimal historical data (e.g., newly IPO'd company).	The platform displays the stock chart with a message indicating insufficient data for pattern recognition.	The platform displays the stock chart with the expected message about insufficient data.	Fail
TCIV-10	IV7	User opens a completely flat stock chart. The platform displays a message indicating no clear pattern detected.	1. User navigates to the stock chart for a company with a flat price movement over a period.	The platform displays the stock chart with a message indicating no clear pattern detected.	The platform displays the stock chart with the expected message about no clear pattern.	Pass
TCIV-11	IV14	User asks the chatbot a question about a specific stock market term (e.g., "What is a P/E Ratio?"). The chatbot provides a clear and accurate definition.	1. User interacts with the chatbot and asks a question about a defined term (e.g., "What is a P/E Ratio?").	The chatbot retrieves and displays a clear and accurate definition of the term (e.g., Price-to-Earnings Ratio).	The chatbot retrieves and displays the expected definition of the term.	Pass
TCIV-12	IV14	User asks the chatbot a question outside its knowledge base (e.g., "What will the stock market do tomorrow?"). The chatbot acknowledges its limitations and offers resources for further research.	1. User interacts with the chatbot and asks a question beyond its knowledge (e.g., "What will the stock market do tomorrow?").	The chatbot acknowledges it cannot predict the future and offers resources for further research (e.g., market news, analyst reports).	The chatbot provides the expected response acknowledging limitations and offering resources.	Pass
TCIV-13	IV14	User asks the chatbot a question with misspelled terminology (e.g., "Whats a PE ratio?"). The chatbot recognizes the misspelling and provides the correct answer (P/E Ratio definition).	1. User interacts with the chatbot and asks a question with a misspelling (e.g., "Whats a PE ratio?").	The chatbot recognizes the misspelling, corrects it internally (e.g., P/E Ratio), and provides a clear definition of the intended term.	The chatbot recognizes the misspelling, corrects it, and delivers the expected definition.	Pass
TCIV-14	IV14	User asks the chatbot a question with an open-ended format (e.g., "Is this stock a good buy?"). The chatbot avoids providing financial advice and directs the user to conduct their own research while offering relevant information (e.g., historical performance, analyst ratings).	1. User interacts with the chatbot and asks an open-ended question about a stock's buying potential.	The chatbot avoids giving financial advice, encourages the user to do their own research, and offers relevant data points (e.g., historical price charts, analyst	The chatbot provides the expected response, avoiding advice and offering relevant information.	Fail
TCIV-15	IV15	User logs in to the platform from a web browser on a laptop computer. The platform loads successfully.	1. User opens a web browser on a laptop and attempts to log in to the platform.	The platform successfully authenticates the user and displays the main interface.	The platform allows user login and displays the expected interface.	Pass
TCIV-16	IV15	User logs in to the platform from a mobile app on a smartphone using a cellular network connection. The platform loads successfully.	1. User opens the platform's mobile app on a smartphone with a cellular data connection and attempts to log in.	The platform successfully authentic		Pass