Stock Management System MERCHANIST FRANKLINE tutoduction of lawred bustons and desire was like 1.1 Purpose of the Document This document specifies the repriorements for the development Ja Stock management system sms. It is designed to automak stock tracking, innentory management ? supplier intractions for businesses. 1-2 Scope It outlines me core features étationical réquirements à system specification for necessary for managing stocks, orders & innumber Development time resource allocation is highlighted. animina 11.30 Overillaid & Must mission tallens and Hard The sins will nelp businesses track innentory lunds, manage Endual Schafull Endayl 1. Introduction 1-1 Purpose j'un document This document highlights me requirements for a financial stolle management system that allows sunestment bankers. inustors, brokers & tradures to manage stock portfolious, execute tradus à trade market data. 1-2 Scope The doc highlights the functional & non purctional requirements for the system. It also concers system architecture, performance galo 2 6 valget and 3 mulour April " ACCOUNT MAINING MAN - THEORY IN 1.3 Durwiu The system provides a platform for users to monitor stock prior manage portfolios, execute buy Isell 2 generate performance reports. It will integrate up stock exchanges to provide realtinu data.

2. ameral Description * Facilitate trade execution, manage dient portfolios, quevate reports. * Manage user accounts, monitor system performance * Real-time stock market data jud * Portolia tracting & analysis * Interation in multiple stock exchange (NASDAG, NYSE etc) 3. Functional Requirements. Simple Complete 3.1 User rejistration * Users can rejister 2 login using secure authentication nuchamisms. * System parmission handled based on role. 3.2 Real-time stock data Also-12 Was I be a * system providus real-time stock fud, market indices a financial news. over con search for stock symbols, view historical price data etc. JANSHALL. 3.3 Portfolio management * lesers can create à manage portfolios * system provider realtine portotio value - gains llosses à assets. on the n.3.4 arder Execution by property faces where * signtem allows to execute stock buy a sell orders, including market orders, limit orders 2 stop-loss orders. * The system must confirm trade execution à apolate porfolia realtime. Whilelity S.T. 4. Interface Enquirements. 4.1 User Ergainanants Interfact * system provides a user friendly met and nutrile interface for monitoring stock prices, user porpolio, executing tradult. 4.2 External system interface system must integrale with 4 tock exchanges & financial data providers (Bloomburg, Ruders) for realtime stock data Eutequation 10/ payment gaturays & banking system for fund fransfers.

	5. Performance Requirements
	- · A. · LIVAA IDAD
	* system must be able to handle upto 10,000 consument wars
Distance of the same of the sa	a procun up to 4000 transactions per second.
	50 PLADEMAC Time
	- Dealtime stock data updates should occur with a latery
	notmore man I second.
	* Drow execution à confirmation should be completed in 2 seconds.
	6 Desgn constraints
	4.1 Compliance
ANNIA	* System mits must comply with the financial rejulators like
	me SEC, FINEA for data profitection and trading compliance.
	6. 2 Tech Stack odds dools wild-how s. 6
THE WALLES	a summer be built on scalable kalinotogia such as loss
	dond architecture (2005) to handle fluctuating warketing durand
	ANDMARALONA CITATION F-8
	7. Non Functional Requirements.
. Ď	THE REST OF THE PROPERTY OF THE STATE OF THE
	custom must employ and to and energy from for all user
	July 1 A Mannochimus Significant and the signi
	+ 12 mr auturnication must include two factor authennication
. 1802 GANGE.	some for all sunsitive operations. In my
	7-2 Reliability
	* system must ensure 99.9%. Uptime to allow for no interregts.
	4.1 User Erguiranto Intropata es es es
Y 0,1	8. Preliminary Schiedule & Budget
	21 Divilline Budget
	* Requirement malysis: 1 month & Development: \$ 250,000
and a second	* penelopment: 4 months + lungration w/stock exchanges:
	+ Tuling & DA : I want!
	* Deployment: 2 mells * Maintenance: \$ 15,000 puryon
	Indiana m