



National University
Of Computer and Emerging Sciences

Project Development Initial Draft

Cryptocurrency Market
Updates Application

**Department of Computer Science & Software
Engineering FAST NUCES PWR**

BRIEF DETAILS ABOUT PROJECT

Project Name	Cryptocurrency Market Updates Application		
Date of Commencement	02/12/2021		
Expected date of Completion	31/12/2021		
Group members name with Roll number	Name	Roll No.	
	Matti Ur Rehman	P19-0048	
	M Arslan Haider	P19-0057	
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Implementation Tool	Python, Beautifulsoup, Socket, Numpy, Pandas		
User interface / Graphics Development Tools	Tkinter		
Documentation Tools	None		
Name of Platform for Implementation	Python, Pycharm, Jupyter Notebook		

Executive Summary

An Application based on Multiple clients and these clients use credentials to get an interface where they get Market updates of the cryptocurrency market.

This application will develop using the Python programming language. Frameworks of Python such as BeautifulSoup, Numpy, Pandas, will be used for scraping data from websites (www.coinmarketcap.com and www.coingecko.com).

Sockets are used for data communication between server and client. It is a kind of broadcast application in which a server sends data to clients. Clients send data while credentials authentication only.

After authentication of the client, Market updates will start getting repeated after a fixed period to the client-side.

Introduction

An idea to develop an application in which there are multiple clients and a server. Servers scrap information from websites (www.coinmarketcap.com and www.coingecko.com) and then send information to clients after some time i.e. 5 mins repeatedly. Clients access the server by credentials. After registering to the server, the client can log in to the server and start getting market updates.

1.1 Problem Statement

The cryptocurrency market is highly dependent on the moves of Bitcoin. It also depends on several other things like Market Capital etc. These things are not only helpful in making new trades but it is also important to know for crypto investors.

1.2 Aim and Scope

It is very helpful for investors to get such important information repeatedly after some time So that they can decide about their trades. From time to time information also gave them a broader perspective about the market.

1.3 Expected Deliverable /End Product

There is a GUI for clients where they get updates from time to time. Firstly, there is a login Password window then there is a window for updates.

1.4 Limitations

We might be unable to make Gui for Server. There might be no option to set minutes you want to get market information.