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PROJECT REPORT

ON

CRYPTO-HUB

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Certificate

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Institute Guide—UDP

Head of Department

DATE:

DATE:

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1.1 INTRODUCTION

- ❖ We live in a digital age. How we communicate, shop, entertain ourselves, take care of our health and order groceries, all look significantly different than how we would have done it just 20 years ago. Banking and finance are also changing. And so is money.
- ❖ We already have digital money – trillions move every day, electronically. But are we on the cusp of Digital Money 2.0? Not the account-based electronic money that's been around for the past several decades, but a new type of token-based digital money. Tokenization, often via blockchain known as cryptocurrency.
- ❖ Cryptocurrencies are digital or virtual assets that are encrypted using cryptography. Cryptography, on the other hand, refers to the application of encryption technology to secure and verify transactions. The cryptocurrencies are designed to function as a decentralized medium of exchange. The digital currencies are also classified as alternative currencies and virtual currencies.

1.2 PROJECT DEFINITION

- ❖ Where u can apply for your own wallet (online app) in which u can hold your currency.
- ❖ So, our name crypto hub itself says about our website which is the hub of cryptocurrency from history and its information to buying your own token or coin and checking the stokes.
- ❖ Crypto hub is a website on cryptocurrency which consists of:
 - Information and history about what are cryptocurrency and how it works.
 - Live share price of cryptocurrency with current values, market cap value and the percentage value of price hike in the last 24 hours.
 - Reference links of buying the cryptocurrency

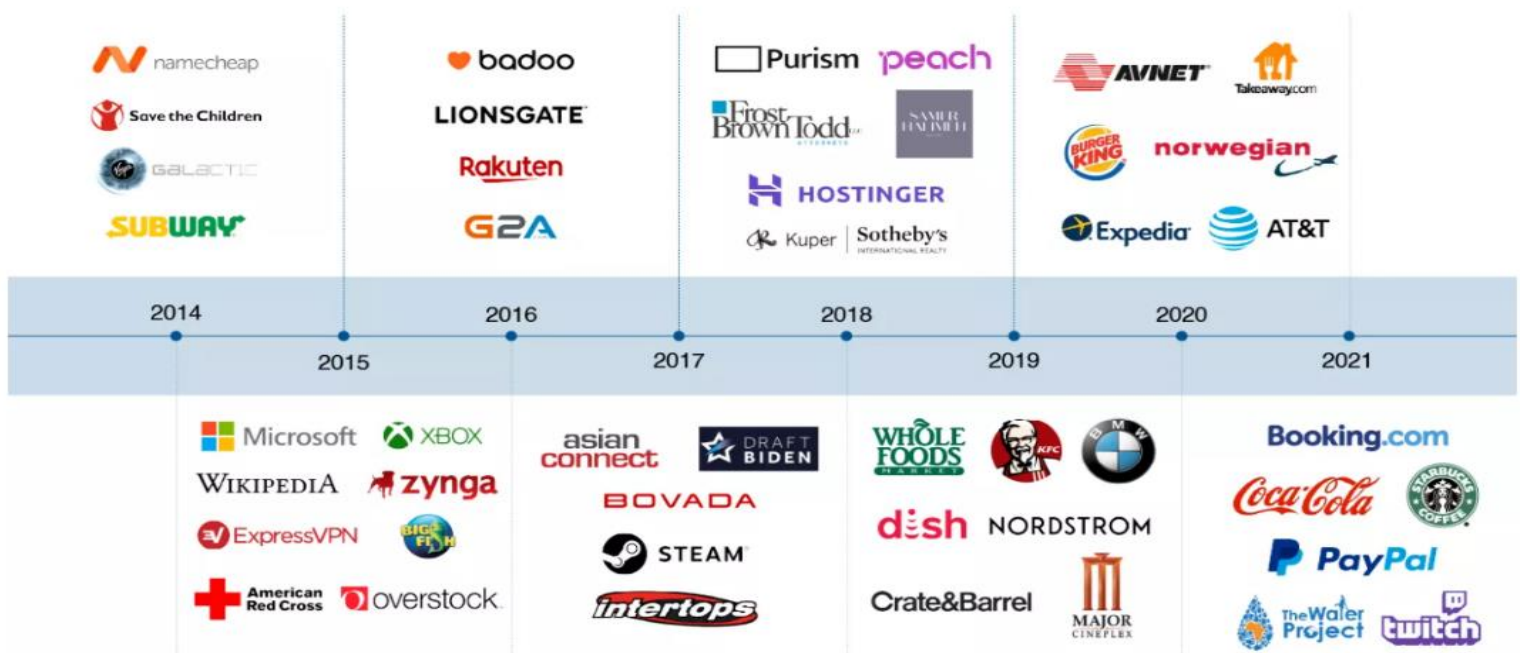
1.3 OBJECTIVE

- ❖ Over time we've seen everyday things go digital. Sharing information through letters, newspapers, and books has turned into sharing emails and reading online. So, it's only logical to predict that money will also be digitised.
- ❖ Young people are increasingly drawn to cryptocurrencies as a way to make easy money. But their inexperience with investing makes them even more vulnerable to an already high-risk investment. And so, our main objective is to give them some knowledge through our website and to give them the pathway of investing in cryptocurrency.
- ❖ The Indian government does not want to be left behind in the new age tech revolution and aims to cash in on the benefits blockchain technology offers. The time has come to leverage its applications while at the same time strengthening the digital infrastructure and so we think this is the best step to take towards the new age tech revolution (digital money 2.0).

1.4.1 SCOPE OF PROJECT

- ❖ As per January 2021, there are 450 billion crypto coins there in the world and in last 8 months bitcoin (one of the cryptocurrencies) got the profit margin of 537% of its base value. So, if Indians enter in this market then the values of the coins can break records.
- ❖ At present there are only 3.6 million Indian users out of 300 million users across the world who use crypto for investments and payments.
- ❖ Many multinational companies are already accepting crypto payments and for that you should have crypto currency and its knowledge which can be gained by our website.

The biggest brands in the world are accepting crypto payments



2.1 STUDY OF PROBLEM

SOFTWARE REQUIRMENTS:

❖ To run PHP code, you need the following three software on your local machine:

1. Web Server (Apache)
2. PHP (Interpreter)
3. MySQL Databases

How to run PHP Code ?

PHP

MySQL

Apache Server

- WampServer
- XAMPP

2.1.1 FRONT END AND BACK-END TECHNOLOGY

- ❖ Front-end developers work with visual designs, creating impressive user experience. The most commonly used languages a front-end Web developer uses are: HTML, CSS3, and JavaScript. While the Back-end developer will work with huge amount of data, algorithms, and optimization of complex systems. Most used back-end web technologies are Python, Java, Ruby, and PHP.
- ❖ While appearance comes under Front-end; storage, logic comes under Back-end.



2.1.2 BACKEND TECHNOLOGY:

ABOUT PHP

PHP was originally created by Danish Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Pre-processor.

PHP (Hypertext Pre-processor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.



2.2 SYSTEM ANALYSIS

ABOUT SOFTWARE

W3Techs reports that, as of April 2021, "PHP is used by 79.2% of all the websites whose server-side programming language we know."

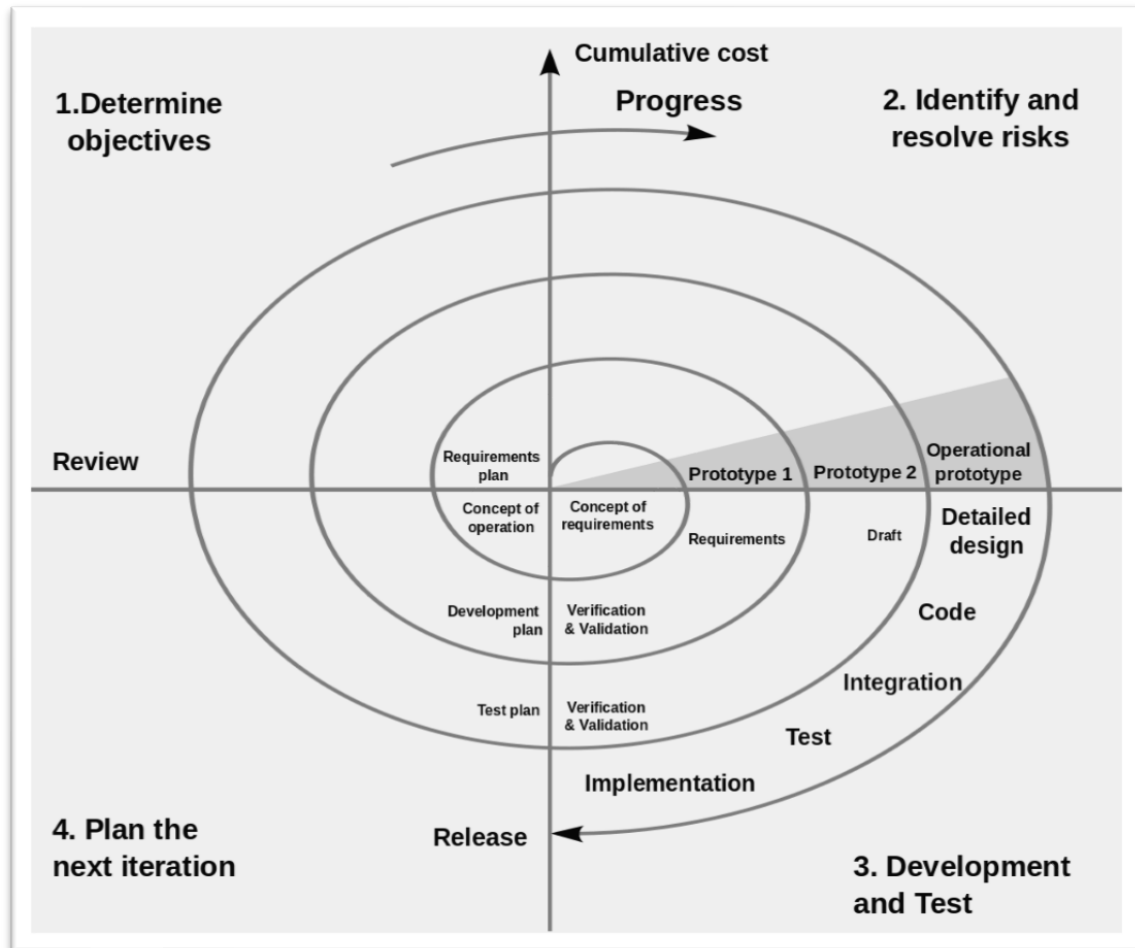


Advantages of PHP

- ❖ Easy and Simple to Learn. PHP is considered one of the easiest scripting languages.
- ❖ Extremely Flexible.
- ❖ Easy Integration and Compatibility.
- ❖ Efficient Performance.
- ❖ Cost-Efficient.
- ❖ Gives Web Developer More Control.

2.2.1 SYSTEM MODEL

Spiral Model



2.2.2 STUDY FEASIBILITY

A feasibility study is defined as an evaluation or analysis of the potential impact of a proposed project or program. A feasibility study is conducted to assist decision-makers in determining whether or not to implement a particular project or program.

1) Technical feasibility

At this level, the concern is whether the proposal is both *technically* and *legally* feasible (assuming moderate cost).

The technical feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system.

2) Financial feasibility

In case of a new project, financial viability can be judged on the following parameters:

- Total estimated cost of the project.
- Financing of the project in terms of its capital structure, debt to equity ratio and promoter's share of total cost
- Existing investment by the promoter in any other business
- Projected cash flow and profit ability.

3) Economic feasibility

Economic feasibility is the cost and logistical outlook for a business project or endeavour. Prior to embarking on a new venture, most businesses conduct an economic feasibility study, which is a study that analyses data to determine whether the cost of the prospective new venture will ultimately be profitable to the company.

2.3 SYSTEM DIAGRAM

2.3.1 DATA DICTIONARY

LOGIN

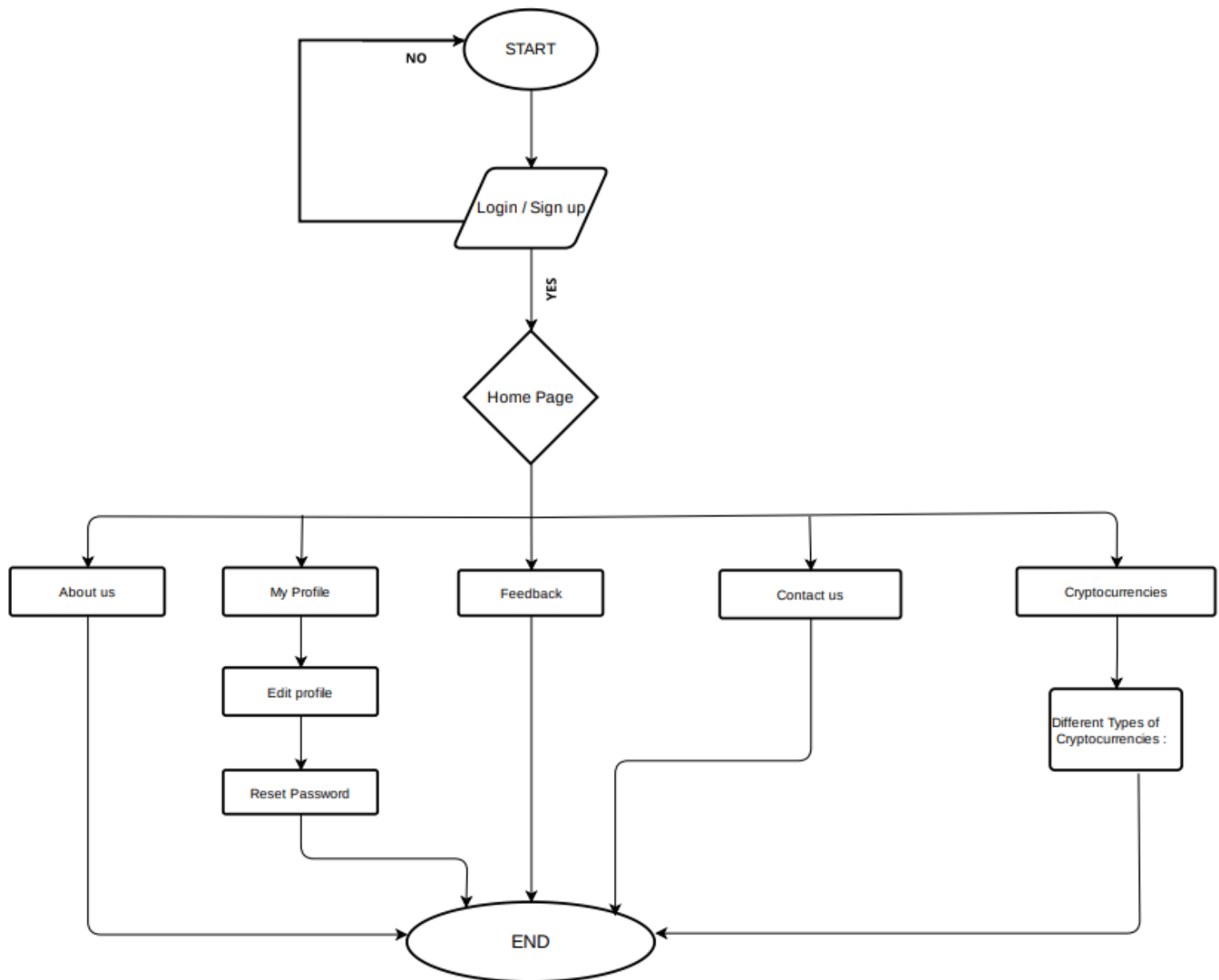
Column	Type	Null	Default	Constraint s
User_id	INT (50)	NO		(Primary Key) + Auto Increment
Full_name	VARCHAR (50)	NO		
Contact	VARCHAR (10)	YES	NULL	
Address	VARCHAR (200)	YES	NULL	
Email	VARCHAR (30)	NO		
Password	VARCHAR (50)	NO		

CONTACT US

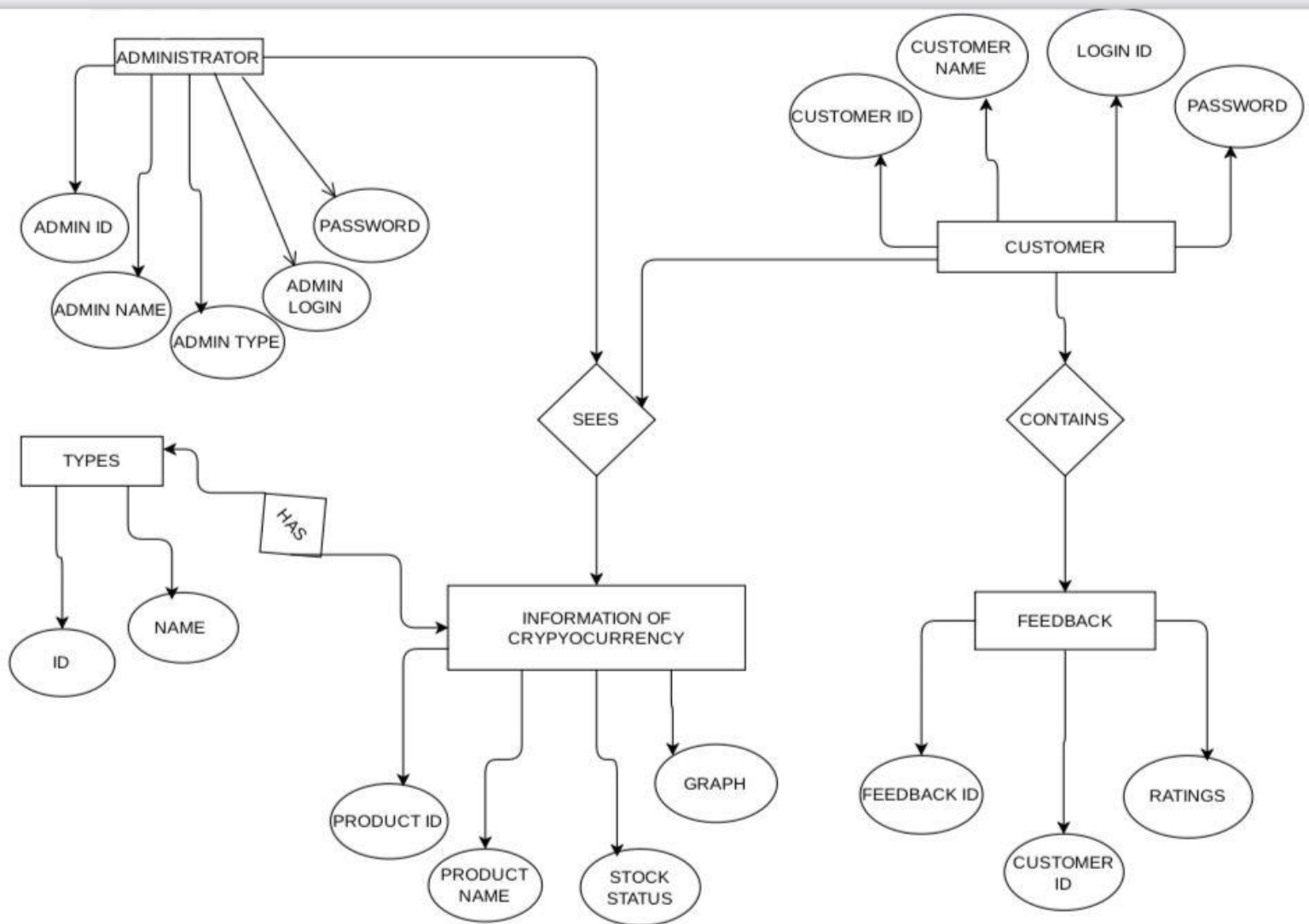
Column	Type	Null	Default	Constraints
Contact_id	INT (11)	NO		(Primary Key) + Auto Increment
Full_name	VARCHAR (50)	NO		
Email	VARCHAR (50)	NO		
Message	VARCHAR (200)	NO		

2.3.2 DIAGRAMS

2.3.2.1 FLOWCHART:

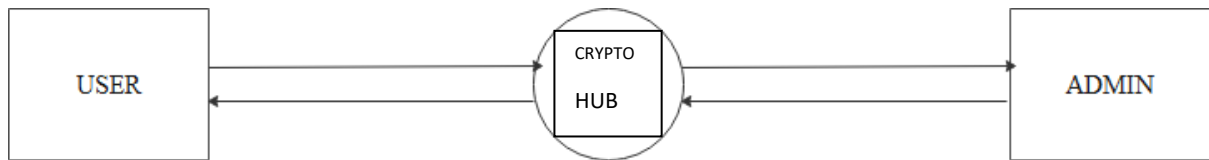


2.3.2.2 ER-DIAGRAM:

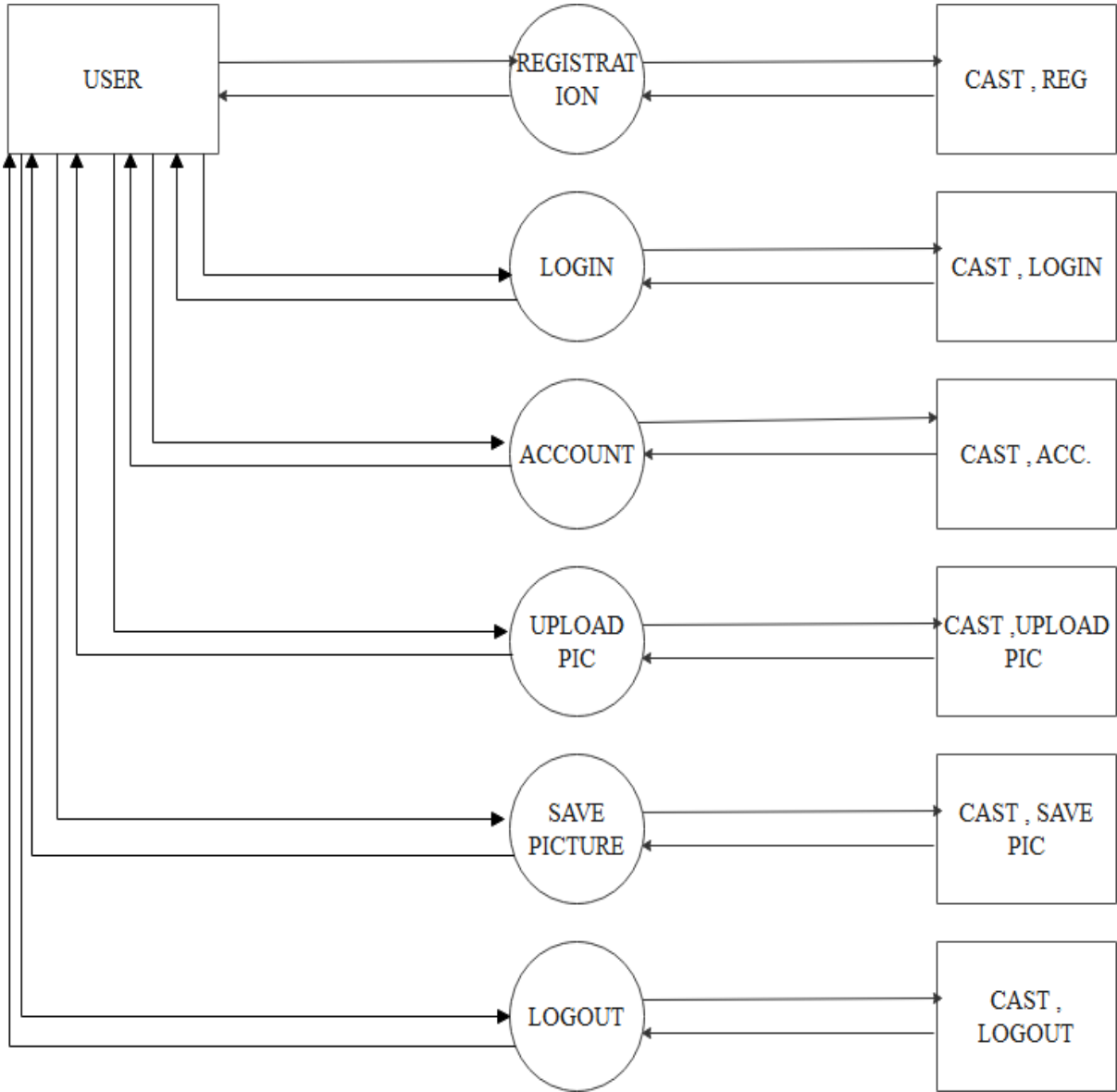


2.3.2.3 Data Flow Diagram

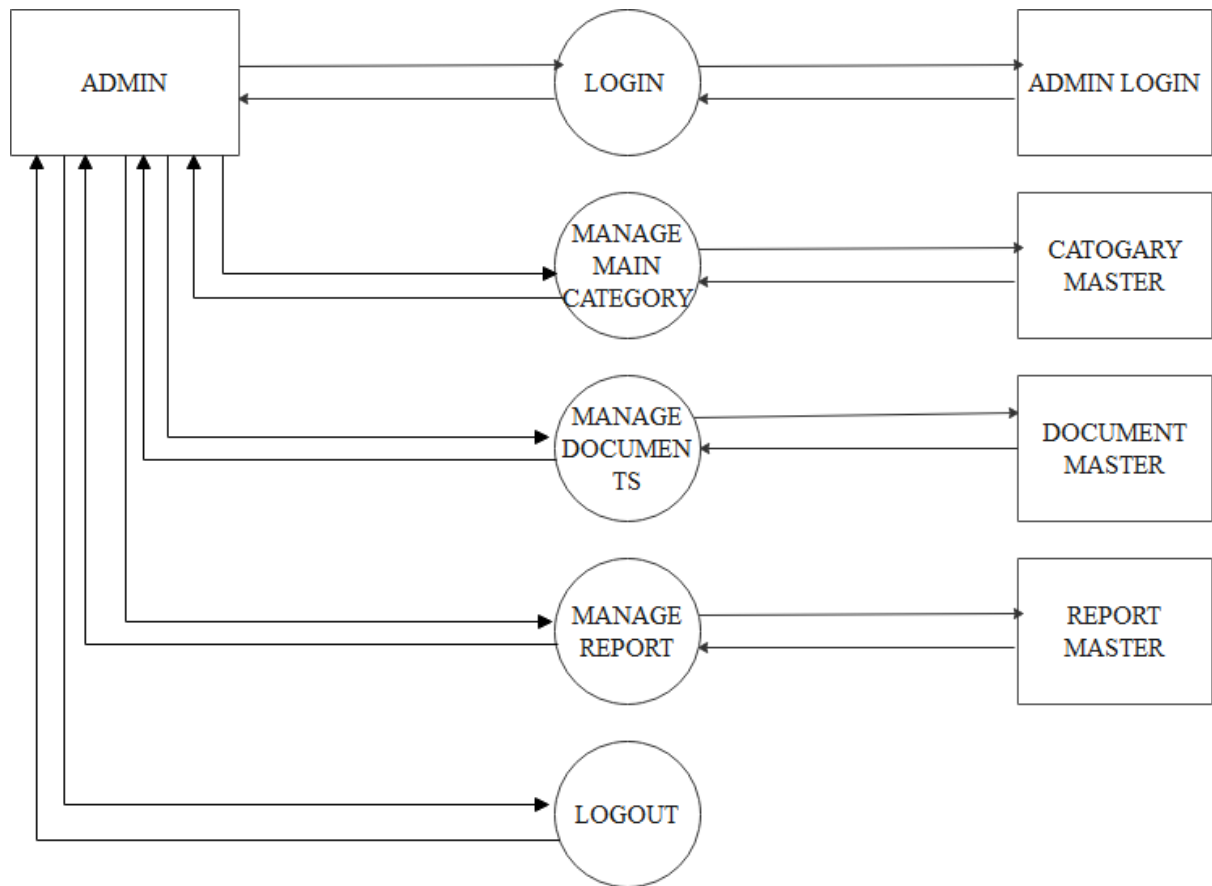
LEVEL 0.0



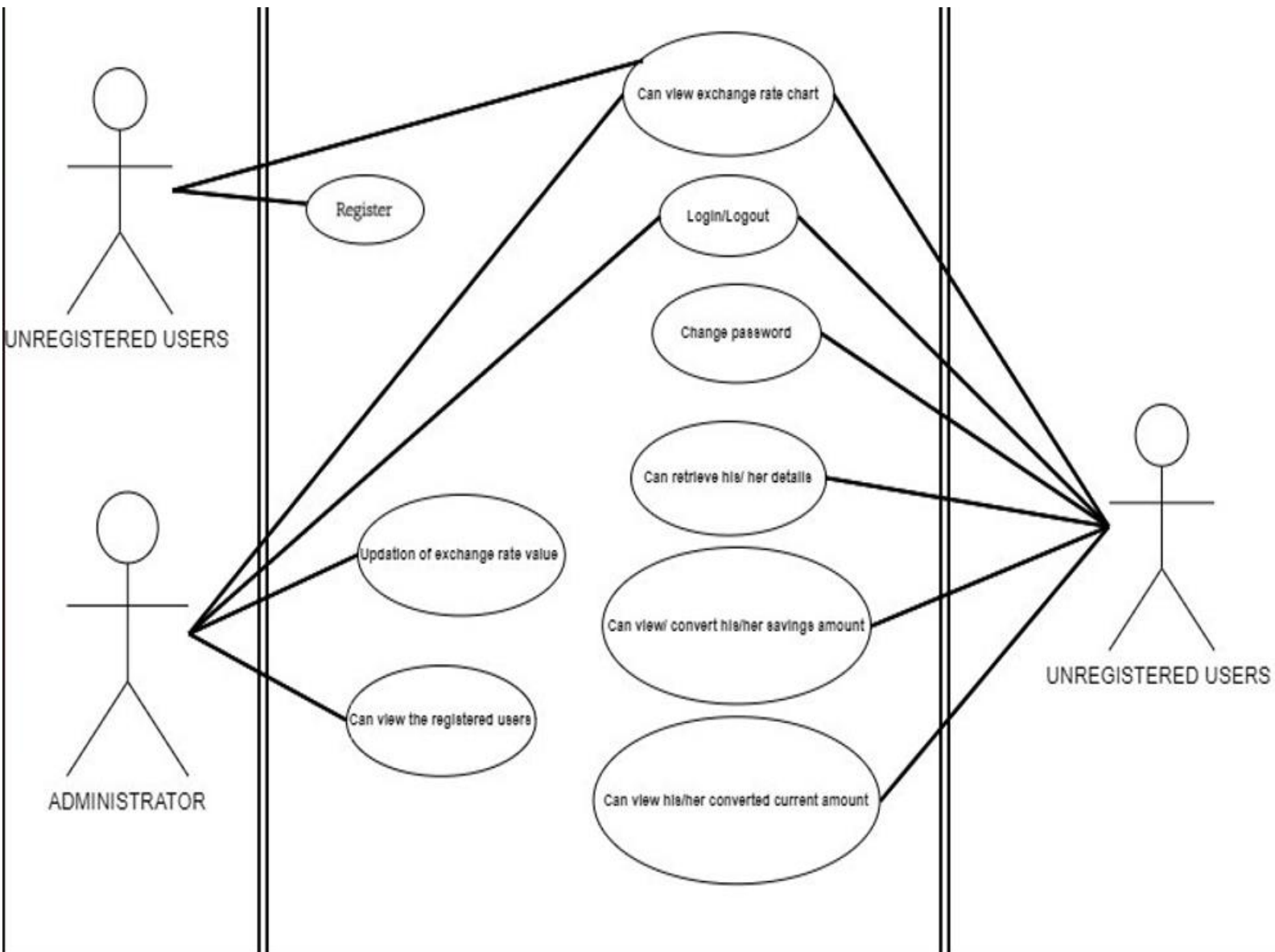
CUSTOMER LEVEL 1.0



ADMIN LEVEL 2.0



2.3.2.4 USE CASE DIAGRAM:



3.1 DESIGNING

CRYPTOHUB

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What is Cryptocurrency ?

A cryptocurrency is a digital or virtual currency that is secured by cryptography, which makes it nearly impossible to counterfeit or double-spend. Many cryptocurrencies are decentralized networks based on blockchain technology - a distributed ledger enforced by a disparate network of computers. A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically immune to government interference or manipulation.

KEY TAKEAWAYS

- A cryptocurrency is a form of digital asset based on a network that is distributed across a large number of computers. This decentralized structure allows them to exist outside the control of governments and central authorities.
- Experts believe that blockchain and related technology will disrupt many industries, including finance and law.
- The advantages of cryptocurrencies include cheaper and faster money transfers and decentralized systems that do not collapse at a single point of failure.
- The disadvantages of cryptocurrencies include their price volatility, high energy consumption for mining activities, and use in criminal activities

Types of Cryptocurrency

CRYPTOHUB

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About Us

Developed by three students of Sigma institute, Crypto hub is a website on cryptocurrency which consists of information and history about what is cryptocurrency and how it works.

Our main aim is to give complete knowledge of investment in cryptocurrency to the people who are not having experience and to encourage and educate the people towards the new-age tech revolution (digital money 2.0).

Frequently Asked Questions

- **What Is Cryptocurrency in Plain Words?**

Cryptocurrencies are digital assets and decentralized systems that allow for secure online payments.

- **How Do You Get Cryptocurrency?**

Any investor can purchase cryptocurrency from popular crypto exchanges such as Coinbase, apps such as Cash App, or through brokers. Another popular way to invest in cryptocurrencies is through financial derivatives, such as CME's Bitcoin futures, or through other instruments, such as Bitcoin trusts and Bitcoin ETFs.

- **What Is the Point of Cryptocurrency?**

Cryptocurrencies are a new paradigm for money. Their promise is to streamline existing financial architecture to make it faster and cheaper. Their technology and architecture decentralize existing monetary systems and make it possible for transacting parties to exchange value and money independently of intermediary institutions such as banks.

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**Social Media**

First Name

Last Name

Email *

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Send

1. Bitcoin

Bitcoin is regarded as the first decentralized cryptocurrency using blockchain technology to facilitate payments and digital transactions. Instead of using a central bank to control the supply of money in an economy (like the Federal Reserve in tandem with the U.S. Department of the Treasury) or third parties to verify transactions (such as your local bank, credit card issuer, and the merchant's bank), Bitcoin's blockchain acts as a public ledger of all transactions in the history of Bitcoin. That ledger allows a party to prove they own the Bitcoin they're trying to use and can help prevent fraud and another unapproved tampering of the currency. A decentralized currency can also make peer-to-peer money transfers (like those between parties in two different countries) faster and less expensive than traditional currency exchanges involving a third-party institution.

2. Ether (Ethereum)

Ether is the token used to facilitate transactions on the Ethereum network. Ethereum is a platform that uses blockchain technology to enable the creation of smart contracts and other decentralized applications (meaning the software doesn't have to be distributed on app exchanges like Apple's App Store or Google Play Store, where they might have to give a 30% cut of any revenue to the tech giants). Thus, Ethereum is both a cryptocurrency (the actual coins are measured in units called Ether) and a software development sandbox.

3.1.1 ADVANTAGES AND DISADVANTAGES

❖ ADVANTAGES:

- A to Z information about cryptocurrency
- Easy to access.
- Easily available on internet.
- 24/7 availability.
- Saving money.
- More security and privacy.

❖ DISADVANTAGES:

- Internet is must.
- Once the transaction is done it can never be retrieved.

3.2 FUTURE SCOPE

- ❖ To bring the revenue model by inviting popular cryptocurrency trading websites and applications.
- ❖ To keep live exchange values of cryptocurrencies.

3.2.2 BIBLIOGRAPHY

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<https://www.investopedia.com/terms/c/cryptocurrency.asp>

<https://coinmarketcap.com/>

<https://www.coindesk.com/price/bitcoin/>