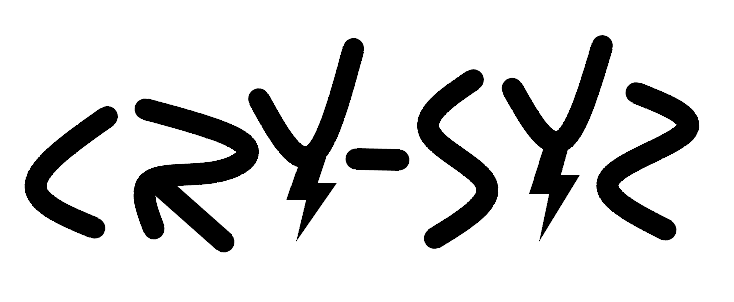
SRS Document of

**Cry-Sys**(A Crypto Management System)



**Table Of Contents**

## 1. [Introduction](#_Introduction_:_1) :

* 1.1 [Category](#_Category_:) :
* 1.2 [Purpose](#_Purpose_:) :
* 1.3 [Scope](#_Scope_:) :
* 1.4 [Definition](#_Definition_:) :
* 1.5 [Introduction](#_Introduction_:) :
* 1.6 [References](#_References_:) :

## 2. [Overall Description](#_Overall_Description_:_1) :

* 2.1 [Product Perspective](#_System_Environment_:) :
* 2.2 [Product Functions](#_Product_Functions_:) :
* 2.3 [User Classes & Characteristics](#_User_Characteristics_:) :
* 2.4 [Operating Environment](#_2.4_Operating_Environment) :
* 2.5 [Design and Implementation Constraints](#_Design_and_Implementation) :

## 3. [External Interface Requirements](#_3._External_Interface) :

* 3.1 [User Interfaces](#_3.1_User_Interfaces) :
* 3.2 [Hardware Interfaces](#_3.2_Hardware_Interfaces) :
* 3.3 [Software Interfaces](#_3.3_Software_Interfaces) :
* 3.4 [Communication Interfaces](#_3.4_Communication_Interfaces) :

## 4. [System Features](#_System_Features_:) :

* 4.1 [System Feature 1](#_4.1_Administrator_Module) :
* 4.2 [System Feature 2](#_4.2_Login_Module) :
* 4.3 [System Feature 3](#_4.3_Search_Module) :
* 4.4 [System Feature 4](#_4.4_User_Module) :
* 4.5 [System Feature 5](#_4.5_Customeradd_Module) :

## 5. [Other Non-Functional Requirements](#_5_Other_Non-Functional)

* 5.1 [Performance Requirements :](#_5.1_Performance_Requirements)
* 5.2 [Safety Requirements :](#_5.2_Safety_Requirements)
* 5.3 [Security Requirements :](#_5.3_Security_Requirements)
* 5.4 [Software Quality Attributes :](#_5.4_Software_Quality)

# 1. Introduction :

## 1.1 Category :

* Web Application

## 1.2 Purpose :

* The purpose of developing Cry-Sys is to create a platform where users can manage their crypto data and be aware about the latest crypto news which will eventually help them to earn more profits and minimize the possible loss in their crypto investment

## 1.3 Scope :

* This web application will be a complete crypto management system for a user. This web application will be designed to maximize the user’s take profit and minimize their losses through the efficient use of technology as well as keeping cry-sys easy to understand and use.
* More specifically, Cry-Sys is designed to allow a user to manage their crypto profiles that includes their crypto holdings which will ultimately help users to gain profit on their investment.

## 1.4 Definition :

|  |  |
| --- | --- |
| Term | Definition |
| User | Any person who is browsing cry-sys without authentication. |
| Member | Any person who is using cry-sys after authentication to manage their crypto profile. |
| Reader | Any person who is visiting the webapp to read blogs. |
| Database | Collection of all information monitored in this system. |
| Admin | A super user who is able to view all the users in the cry-sys and has all the rights of the web application. |
| General User | Any person who visits cry-sys without login |
| Authenticated User | Any person who users cry-sys after login or registration |
| HTML | Hyper Text Markup Language |
| CSS | Cascading Style Sheets |

## 1.5 Introduction :

* Cry-Sys will be a complete cryptocurrency management system in which the user will be able to view the latest real time updating crypto currency news and will be able to manage their crypto portfolio.

## 1.6 References :

* Motivated by <https://stockedge.com/> – StockEdge allows its users to do analysis on the Indian Stock Market.

# 2. Overall Description :

## 2.1 [Product Perspective](#_Product_Perspective_:) :

* Cry-Sys is a standalone web application that provides functionality described in the [Product Functions](#_Product_Functions_:) section. It includes all the subsytems needed to fulfil the role of the crypto management system. In addition Cry-Sys has a real time updating news network which gets updated in real time. Moreover Cry-Sys also manages the real time crypto data of the top 10 crypto currency according to market capital.

## 2.2 Product Functions :

* Real time updating crypto news network
* Top 10 crypto currency ( acc. Market Capital ) and real time price update
* Price lookup and chart feature ( max 1 year )
* User login and support team feature
* Post login : crypto portfolio management
  + Ability to add crypto inside their account
  + Ability to create a “Take Profit” price (email when price will hit)
  + Ability to create a “Stop Loss” (email when price will hit)
  + Ability to add a price when the user wish to enter the crypto
* Functionalities of Administrator :
  + Ability to view and delete users
  + Ability to view and delete groups
  + Ability to add and delete other field values

## 2.3 User Classes & Characteristics :

This subsection will describe different users that will affect specific requirement of Cry-Sys. This web application is intended not only for authenticated users but also for a general user.

* Administrator
  + Requires knowledge of how to provide valuable feedback for the queries
  + Requires knowledge of managing backend in order to monitor users
* General User
  + Requires no knowledge of crypto currency to browse Cry-Sys
  + Understanding of English language
* Authenticated User
  + User must have knowledge about stop loss, take profit and other investment terms to use Cry-Sys in best possible way
  + User must be responsible in their actions while monitoring their crypto investments
  + Ability to use a fairly new technology for their benefit

## 2.4 Operating Environment :

* Cry-Sys operated with any operating system (Windows, Linux or Mac) and in any latest browser that can access internet.

### Design and Implementation Constraints :

* It deals with the design issues that may occur due to irrelevance. The major part is the user implementation model as it is the specification for the user interface of the proposed system. It is also known as the physical model of the proposed system.
* It involves rigorous testing & programming and re-testing & re-programming as well as integration of different API’s and develop a progressively more complete system.
* Constraints :
  + General User is not able to use full functionality of Cry-Sys.
  + Only admin is able to make modifications in the database.

### 3. External Interface Requirements :

### 3.1 User Interfaces :

* Real time and reliable crypto news
* Secured and hashed data storage of sensitive details
* Least (almost no) storage requirements
* Quick information processing
* Efficient updating of crypto data
* Clear and quick response of queries

### 3.2 Hardware Interfaces :

* 512 GB Solid State Drives
* 4 GB RAM
* Intel Quad core Processor – 10th Gen
* Windows 10 operating system

### 3.3 Software Interfaces :

* Django
* Node JS
* HTML
* CSS
* BOOTSTRAP
* JAVASCRIPT
* SQLite database (Default Django Database)
* Visual Studio Code
* Latest Browser with internet access

### 3.4 Communication Interfaces :

* The communication architecture must follow the client – server model. Communication between client and server should utilize a web service and must be served over HTTPS.
* The client – server communication must be stateless. A uniform interface must separate the client roles from the server roles.

### 4 System Features :

Functional requirements is defined as the fundamental actions that must take place in the software or web application in accepting the inputs and then processing the information and then generating the outputs.

### 4.1 Administrator Module :

* Admin area can be accessed under the /admin/ URL and must be authenticated by using the provided username and password to the web application. Admin has the rights of CRUD in the database and has the ability to view all the users.
* Admin has an entirely different login page apart from the regular lower privilege users under the above mentioned /admin/ URL.
  + Input : Username & Password
  + Output : Admin will be displayed an admin area where he has the CRUD rights on the database and can view all the users
  + Relationship or Process : Authentication process followed by Create, Read, Update or Delete process which admin wish to perform.

### 4.2 Login Module :

* This module is provided for users who are using Cry-Sys for managing and tracking their crypto currency investment and is for registered users only. This login module is provided according to the need of the systems keeping in mind of the security concerns.
  + Input : Username & Password
  + Output : User can use the functionalities provided in Cry-Sys for crypto management
  + Relationship or Process : Validation of users after entering of username & password to identify is the user exists in the database.

### 4.3 Search Module :

* This module is provided for general users or authenticated users who wish to search for specific crypto currency and get more details about it.
  + Input : Crypto currency short notation (ex: btc or BTC for Bitcoin)
  + Output : Detailed Information about the crypto currency entered in the input.
  + Relationship or Process : Validation of input to ensure proper sanitation of user data to avoid client side vulnerabilities and immaculate data.

### 4.4 User Module :

* This module is provided for authenticated users who want to manage their crypto currencies using Cry-Sys.
  + Input : Customer, Cryname, Price, Amount
  + Output : Stores the crypto info in the database for management of crypto
  + Relationship or Process : Validation of user and fetching the information according to user only.

### 4.5 Customeradd Module :

* This module is provided for admin in order to add the customers to the database directly through the admin portal.
  + Input : Name, Phone, Email
  + Output : Saves the customer to the database
  + Relationship or Process : Creation of new customer and saving the customer details in the database.

### 5 Other Non-Functional Requirements:

### 5.1 Performance Requirements :

* The performance of the web application entirely depends on the internet connectivity and its speed.

### 5.2 Safety Requirements :

* NA

### 5.3 Security Requirements :

* Cry-Sys aims to provide and met all the CIA rules of security.
* It provides high security features like encryption to the user account through the use of Django authentication system to provide security against illegal hacking.

### 5.4 Software Quality Attributes :

* Reliability
* Correctness
* Real-time data
* Precision
* Accuracy
* Security

Lookup Prices Blogs About Us

CrySys

(Home Page)

has

Username

SignUp Login

Email

Password

Register Username Password

**ER DIAGRAM**

Crypto Information

CrySys Add Customer Customer

(Home Page)

access page LOGIN & LOGOUT

**DFD DIAGRAM**