**Crypto Currency Exchange**

**Software Requirements Specification**

Version 1.0

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date (dd/mm/yyyy)** | **Version** | **Description** | **Author** |
| 31/12/2021 | 1.0 | In this Application we create restful APIs for Crypto currency Exchange and give accessibility to view the crypto currency live price. | Muhammad Abdullah |
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**SRS Document**

Functional and non-Functional Requirements:

Functional Requirements:

*Functional Requirement 1:*

ID: FR1

TITLE: Registration

DESC: User will be able to register his/ herself.

RAT: In order to login

DEP: None

*Functional Requirement 1:*

ID: FR1

TITLE: Email Verification

DESC: User will be able to verify their email address using link that send to their email.

RAT: To email verification

DEP: None

*Functional Requirement 1:*

ID: FR1

TITLE: Phone Number Verification

DESC: User will be able to verify their Phone number using OTP that has been sanded to their mobile number.

RAT: To Mobile Verification

DEP: None

*Functional Requirement 2:*

ID: FR2

TITLE: Authentication Login\Logout

DESC: User will be able to enter email and password for access the system and logout after implementation his work. Admin will be able to login using credentials provided by the system.

RAT: In order to different functionalities. Example check rates/trends/logout information etc.

DEP: FR1

*Functional Requirement 3:*

ID: FR3

TITLE: Forgot password

DESC: All users will be able to forget.

RAT: In order use assigned privileges and forget email sending.

DEP: FR1

*Functional Requirement 3:*

ID: FR3

TITLE: See Market Trends

DESC: User will be able to read Markets trends.

RAT: In order Check Market Trends.

DEP: FR2

*Functional Requirement 4:*

ID: FR4

TITLE: Add Deposit

DESC: User will be able to add Deposit in account using credit cards.

RAT: In order Deposit Credit.

DEP: FR2

Non-Functional Requirements:

Non-Functional Requirement 3.1

**ID: NFR1**

TITLE: Response Time

DESC: The response time of website should be fast. The user should be able to access all information of clothes and inventory in no time.

RAT: In order access information quickly

DEP: None

Non-Functional Requirement 3.2

**ID: NFR2**

TITLE: Website Reliability

DESC: Website would work in all situations with 100% efficiency.

RAT: In order make website reliable.

DEP: None

Non-Functional Requirement 3.3

**ID: NFR3**

TITLE: Website Testability

DESC: Test environments should be built for the website to allow testing of the website’s different functions.

RAT: To test the website.

DEP: None

**Use Case Diagram(s):**

Deposit payment

User

**Usage Scenarios:**

* **Use case 1**

|  |  |
| --- | --- |
| **Use Case Title** | Registration |
| **Use Case ID** | ESS1 |
| **Actors** | User |
| **Description** | User will be able to register himself/ herself. |
| **Preconditions** | User registered himself and input data correctly according to format. |
| **Alternate Steps** | If input is invalid, so user will provide it again. |
| **Postconditions** | User should be able to use system modules. |
| **Exceptions** | Registration information incorrect or server no response. |

* **Use case 2:**

|  |  |
| --- | --- |
| **Use Case Title** | Login |
| **Use Case ID** | ESS2 |
| **Actors** | User |
| **Description** | User will be able to login him/ herself. |
| **Preconditions** | User login himself and input data correctly according to format. |
| **Alternate Steps** | If input is invalid, so user will provide it again. |
| **Postconditions** | User should be able to use system modules. |
| **Exceptions** | Login information incorrect or server did not response. |

* **Use case 3:**

|  |  |
| --- | --- |
| **Use Case Title** | Forgot/Rest password |
| **Use Case ID** | ESS3 |
| **Actors** | User |
| **Description** | User will be able to reset their password using forgot and rest APIS. |
| **Preconditions** | Must have account. |
| **Alternate Steps** |  |
| **Postconditions** | User will be able to do login into and use system modules. |
| **Exceptions** | Server did not respond, data format is not according to format. |

* **Use case 4:**

|  |  |
| --- | --- |
| **Use Case Title** | User Authentication |
| **Use Case ID** | ESS4 |
| **Actors** | User |
| **Description** | User must be Authenticate herself/himself if want to login |
| **Preconditions** | Must be login into system. |
| **Postconditions** | Easily access Account |
| **Exceptions** | Server does not respond, or data format is not according to Db format. |

* **Use case 5:**

|  |  |
| --- | --- |
| **Use Case Title** | User Check Rates |
| **Use Case ID** | ESS5 |
| **Actors** | User |
| **Description** | User Will be able to Convert Crypto Rate. |
| **Preconditions** | User must be login into system. |
| **Postconditions** | User Check Rates. |
| **Exceptions** | Server does not respond, or data format is not according to Db format. |

* **Use case 6:**

|  |  |
| --- | --- |
| **Use Case Title** | Market Trends |
| **Use Case ID** | ESS6 |
| **Actors** | Admin, merchant, Secondary user |
| **Description** | User will be able to see Market Trends. |
| **Preconditions** | Before they have must have request. |
| **Postconditions** | View All Active Trends. |
| **Exceptions** | Server does not respond. |