***1. System Description***

Online transferring money system: Fast transfer & receive money system, Secure validation users account from various banks, Transaction history database system

**Problem Description**

Online market has such a huge traffic. It easily becomes slow by processing heavy traffic. In order to prevent exiting users, the speed of transaction is the main key to make a contract with clients. It handles clients’ very sensitive data, and the data could be organizations’ valuable assets. As a result of that, the system needs a strong authentication process to access the data. Providing a transaction history is also important because clients must track their money whenever they want, and it is essential for proving their financial statement.

The priority of the transaction system is to build a fast, easy, and secure system.

**System Capability**

The system must consist of the functions of

quick transferable & receivable process,

secure encryption & decryption about the detail of the clients,

collecting, reading, storing, updating the payment history,

enabling to connect via WIFI and transmitting data,

enabling to connect via computer and transmitting data,

enabling to connect via telephone and transmitting data

**Business Benefits**

generating commission revenue by servicing convenient payment method,

removing costs from purchasing transaction machines or visiting banks for transactions,

acquiring transparent trading history data,

acquiring more marketing channels available,

ensuing security of payment,

reaching global clients

***2. Stakeholder List***

|  |  |  |  |
| --- | --- | --- | --- |
|  | Operational | Executive |  |
| Internal | Programmers  System Designers | Directors  President  Vice-president |  |
| External | Customers  Computer device Suppliers | Investors  Governments  Banks  Medias |  |

***3. Description of Requirements Gathering Approach***

Online survey: In comparison to other methods, there are many advantages from the online survey for this system. Online surveys are not only faster, cheaper for clients, but also more accurate, easy to process the data for researchers. First, the clients of the system are 100% using online service. Therefore, the online questionnaire is more comfortable, flexible, faster approaching clients. Second, online surveys reduce the cost. Hiring & training people is difficult and consumes much money & time. Online surveys are not necessary to hire & train people for distributing it. Moreover, the response data can be automatically organized in customized order. Third, online surveys can acquire more honest responses from clients. As online surveys don't delimit the place where clients take a survey, the clients don’t feel under pressure to criticize or say something for improvement of the service.

Question for the survey:

How do you know about our service?  ex) 1. media, 2. though mouth, 3. newspaper, etc

How frequently do you use our service?

Are you satisfied with our service?

If answer is no what makes you unsatisfied?

Identify the problems with the current system that you would like to see resolved in a new system.

***4. Document and List all the Requirements for the system***

|  |  |  |
| --- | --- | --- |
| Requirement Category  (Functional / Non-functional | FURPS+ category | Requirement Description |
| Functional | Functions | Transferring money function |
| Non-Functional | Usability  Reliability  Performance  Security  +  Implementation  Physical  Support | Convenient User Interface (U)  High-capacity server and Backup  server & accurate process (R)  Fast response time (P)  Secure authentication of the access and Encryption & Decryption (S)  Html, CSS, JavaScript for UI, Spring framework for server, Nginx framework for server, DynamoDB SQL framework for database (+I)  Light enough for mobile devices (+P)  Continuous system Update & Installation (+Su) |

***5. Activity Diagram***

|  |  |  |
| --- | --- | --- |
| Clients | Bank | Transfer subsystem |
| Request Transfer Money  Provide Account Info  Deposit money | Identify & Verify  For each request  Enough  Balance  Yes  No  Reject the request  Request checking balance  Deduct the amount of money  End for each request | Request Receiver Account Info  Process Transfer |

|  |  |  |
| --- | --- | --- |
| Clients | Bank | Validation subsystem |
| Provide user Information  Provide correct Info | Yes  Validate the Account  Correct Info  No  Request checking Info | Permit the access  Request validation  Encrypt the information  Request User Info |

|  |  |  |
| --- | --- | --- |
| Clients | Bank | Database System |
| Request Transaction History | Provide User Bank Accounts | Store All Bank Accounts Status  Update Account Status  Request User Bank Accounts  Provide the Transaction History |