

**SOFTWARE REQUIREMENT SPECIFICATION(SRS)**  
**ONLINE BANKING SYSTEM**

**INTRODUCTION**

**1.1 Purpose**

The purpose of this document is to present a detailed description of the Online Savings Banking System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

**1.2 Scope**

New software needs to be built for Online Banking system. For this, a new user should easily be able to get application form, fill that form manually and submit with proof in nearest banks or online. The new user first registers themselves, by applying at the Net Banking site, then fills and submits the form to bank. Finally, the Admin grants the access after verifying the details about new users request and activates the users' account.

**1.3 Overview**

The project gives real life understanding of Online Banking System and Activities performed by various roles in the supply chain. New users can register through online application form which is available in our website. After registration the system, it will automatically generate a printout copy, by which they can open a new account in the bank. Online banking services will also be available for all the existing customers.

**1.4 References:**

This web application has been prepared on the basis of discussion with Team members, faculty members and also taken information from following books & website.

#### 1.4.1. Websites:

1.4.1.1. [www.google.com](http://www.google.com)

1.4.1.2. [www.wikipedia.org](http://www.wikipedia.org)

#### 1.4.2. Books:

1.4.2.1. Fundamental of Software Engineering By Rajiv Mall.

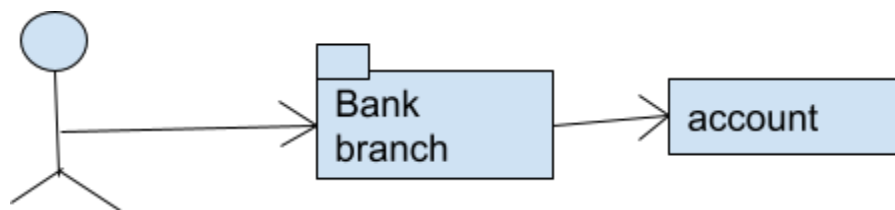
1.4.2.2. Software Engineering : A practitioner's approach Ed. By Pressman, Roger.

## **2. Overall Descriptions**

### **2.1 Product Perspective**

Following is the context or origin of online banking system. Comparison b/w the Tradition system and the new system can also be cleared through the system models

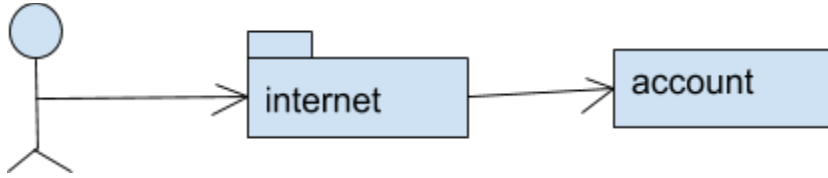
Online banking traditional system



Customer

In traditional system, customer should have to visit the Bank branch physically for the transactions or some other task. It wastes time.

Online banking system(New System)



Customer

After implementing the online banking system customer will be able to connect to his account through the internet connection. Time usage will be minimized, task will be done fast instead of waiting someone other to complete his task.

## **2.2. Functionalities:**

This software will have following functionalities:

### **2.2.1. Online balance check and transaction information:**

Customer will be able to check his balance online while sitting at home by accessing the database of the bank using his/her password and account no. allotted him by the bank.

### **2.2.2. Save or view up to 1 year past history of transaction:**

It will be easy for the customer to view or save his history transactions up to past 1year transactions. It will provide him the opportunity to maintain his bank balance and needs.

### **2.2.3. Balance transfer:**

This system will provide a path to the customer of the bank to transfer his balance to other account in easy steps. A small transfer fee will be applicable for this transaction.

### **2.2.4. Online record Entry:**

Bank staff will input and maintain their record online. It will be easy and efficient for them to serve more and more people in less time.

### **2.2.4. Online record search:**

Bank staff will easily search a record and update it if needed. Transactions will be faster even physically from the branch because it will be very easy

for the bank staff to check the balance of a specific person and update its record if necessary.

#### **2.2.5. Online Billing Option:**

Customers will be able to shop online and pay the bills from their account. A secure way will be provided for the billing. Online shopping will provide them the easiest way to buy and sell their items.

#### **2.2.6. Check book Allotment:**

If the customer's checks have been completed, a new check book will be allotted to him.

### **2.3 User Characteristics**

There are various kinds of users for the product. Usually web products are visited by various users for different reasons. The users include :

2.3.1. Chancellor who will be acting as the controller and he will have all the privileges of administrator.

2.3.2. All the persons who need to perform banking.

#### **2.4 General Constraints:**

Some general constraints should be defined which will have a great part in the overall succession of the online savings bank account project.

**2.3.1. Hardware Requirements:** As this system is an online Web-based application so a client server will be the most suitable Organizational style for this system. Computer systems will be needed by each of the actor as well as that user must be connected to the internet. So, concisely following hardware will be needed. 1) Computer systems 2) Internet availability

**2.3.2. Safety and Security:** This Project must be safe and secure because customers will directly contact their account through the internet. Software will have to identify the valid customer according to his/her bank details and password. So it is a difficult task to prevent the system by major disasters by preventing the unauthorized access to the system.

#### **2.4 Assumptions and Dependencies:**

Following are the assumptions and dependencies which are related to this online savings banking project.

- 1) This project is a stand-alone project so it will not affect the system where it will be embedded.
- 2) This project is a web-based project while the staff was addict of using traditional methods of data storage and retrieval so they will be trained a bit to jump to it.
- 3) This system will not depend on any other module. It will be a web-based so everyone will independently contact it.
- 4) It is will not affect the environment at all.
- 5) Banks will feel free to adopt it because it will not be so much expensive.
- 6) As this project contains valuable and new features so it will probably remove the previous online savings banking systems embedded in some banks.

### **3 Specific Requirements**

#### **3.1 Functional Requirements:**

Following are the services which this system will provide. These are the facilities and functions required by the customer.

- a) Online balance check.
- b) Online shopping opportunity.
- c) Online data entry by the staff.
- d) Updating the data.
- e) Balance transfer.

#### **3.2 External Interfaces**

The external interfaces of the Online Banking system are relative to the various users which contain independent access units in each, and one master control of admin. These interfaces are described below:

##### **3.2.1 User Interface**

The User Interface defines the human-computer interaction of the Online Banking system. The system requires interaction from various users:

##### **3.2.2 Hardware Interface**

The software shall interface with the electromechanical that controls the online connection systems. The software shall interface with a breaking mechanism in case of emergencies. The transactions and accesses shall be

controlled by the software based on command and graphical user inputs. The hardware interface is supported by the main control panels (buttons, keyboard, mouse and communication mediums).

### **3.2.3 Software Interface**

Software interface is supported by the main control panels and operating system in which hosts the algorithms for calculating distributed travel and wait time information.

Additionally, the algorithms define and export system commands for main control panels, and communication mediums. For testing purposes the software shall be capable of interfacing with software simulators on a PC computer using GUI applications of webpages.

### **3.2.4 Communications Interface**

All system interfaces communicate in order to activate ordered requests. The communication mediums (wired or wireless) are the external interface that communicates with the control panel of the Online Banking System. This communication allows for failure messages, and requests to be sent and received by the main system.

## **4. Non-Functional Requirements**

Those requirements which are not the functionalities of a system but are the characteristics of a system are called the non-functionalities. Every software system has some non-functionalities. Just fulfilling the requirements of the user is not a good task, keeping the system accurate, easy to maintain, reliable and secure is also a basic part of software engineering. Online Banking System must have the following non-functional requirements so that it could be said as a complete system.

a) Conformance to specific standards

b) Performance constraints: This system must be fit according to the performance wise. It should use less memory and will be easily accessible by the user. Memory management should be done wisely so that none of the memory part goes wasted.

c) Hardware limitations: It should be designed in such a way that cheap hardware must be installed to access and use it effectively. It should be platform independent. There should be no hardware limitations. It should be designed to work with the low specification hardware so that it could easily work with the high specification hardware.

d)Maintainable: Each of the modules should be designed in such a way that a new module can easily be integrated with it.

e)Reliable

f) Testable

#### **4.1 Other Requirements:**

**Software Quality Attributes:** The Quality of the System is maintained in such a way so that it can be very user friendly to all the users. The software quality attributes are assumed as under:

a)Accurate and hence reliable.

b)Secured.

c)Fast speed.

d)Compatibility.