

# UI-Specifications

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## Online Banking

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This document provides an outline of the user interface specifications for introducing Online Banking capabilities to an existing banking platform. It summarizes the scope, impacted systems, and related business processes, and presents high-level requirements for key pages such as the Home, Online Banking, New User Registration, and Password pages. The content highlights the expected user interactions, field behaviors, validations, and navigation flows, offering a general framework to guide the design and development of the online

banking experience.

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## **1 Scope**

- 1.1.1. The goal of the project is to implement 'Online Banking' capabilities so that the customer can manage their account 24\*7. This will also result in a significant decrease in call center volume, which not only provide a better customer experience but will also reduce call center expenses.

## **2 System(s) impacted**

- 1.1.2. 'Online Banking' capabilities shall be added as an enhancement to 'https://bankofamerica.com'

## **3 Assumption(s)/Dependencies**

- 1.1.3. N/A

## **4 As-Is Business Process (via activity diagram)**

## **5 To- Be Business Process (via activity diagram)**

## **6 Requirements**

### **6.1 Requirements: 'Home' Page**

#### **6.1.1 Display 'Online Banking' Hyperlink**

System shall display 'Online Banking' hyperlink, which shall be located to the left of the 'locations' hyperlink.

#### **6.1.2 Online Banking' Hyperlink Navigation**

On clicking 'Online Banking' hyperlink, system shall display ' Online Banking' page in the same window.

## 6.2 Requirements: 'Online Banking' Page

### 6.2.1 'Online Banking' page data fields

System shall display the following data fields on 'Online Banking' page:

The screenshot shows a web page titled "Online Banking". Below the title, there is a form with the following elements:

- A label "User Id." followed by a text input field. A yellow callout box with the number "1" points to the input field.
- A blue button labeled "Continue". A yellow callout box with the number "2" points to the button.
- A blue underlined link labeled "New User Registratio..". A yellow callout box with the number "3" points to the link.
- A blue underlined link labeled "Forgot User ID?". A yellow callout box with the number "4" points to the link.

Note number	Field Name	Note
1	User ID	Field Type Text Box Min.Char 8 Max.Char 16
2	Continue	Field Type Command Button On click if validation passes, display 'Password' page else display error message

3	New User Registration	On click, display 'New User Registration' page on the same window
4	Forgot User ID	On click,display 'Forgot User ID' pop up/dialogue box

## **6.2.2 Validate User ID**

In the event of the user clicking the 'Continue' command button, system shall validate the entered user id.

6.2.2.1 If the entered user ID is valid, display 'Password' page in the same window.

6.2.2.2 If the entered User ID is invalid, display th following error message:  
Invalid User ID. "Please re-enter a valid value."

## 6.3 Requirements: 'New User Registration' Page

### 6.3.1 'New User Registration' page data fields

System shall display the following data fields on 'New User Registration' page:

#### New User Registration Page

##### User interface

The image shows a 'New User Registration' form with the following fields and callouts:

- 1**: User ID input field
- 2**: Password input field
- 3**: Re-enter password input field
- 4**: SSN input field
- 5**: Gender selection (radio buttons for Male and Female)
- 6**: Interest selection (checkboxes for Sports, Travel, Movies, and Reading)
- 7**: Security Question dropdown menu
- 8**: Security Answer input field
- 9**: Register button
- 10**: Cancel button

**Widget table**

Note number	Name	Note
1	User Id-Text Box	Required Filed Alpha Numeric-Data Min Req 8 Max 16
2	Password - Text Box	Required Filed Alpha Numeric-Data Min Req 8 Max Char 16 Data is encrypted
3	Re-entered Password-Text Box	Required Filed Alpha Numeric-Data Min Req 8 Max Char 16 Data is encrypted
4	SSN-Text Box	Required Filed Numeric-Data Min Char 9 Max Char 9 First 5 number encrypted
5	Gender- Radio Button	Optional Field Optional are Male, Female No default Selection
6	Interest - Check Box	Optional Field Optional are Sports, Travel, Movies, Reading No default Selection
7	Security Question – Dropdown List	Required Field Options : What is your best friend's name? What is your mother's maiden name? What City were you born?  Sort the options Alphabetically No default selection



Note number	Name	Note
8	Security Box- Text Field	Required Field Alpha-numeric Date Min Char 2 Max Char 56
9	Register - Command Button	On click, if all validation pass display accounts summary page else display error messages
10	Cancel - Command Button	On click, discard the entered data and display online banking page

### 6.3.2 'New User Registration' page data validations

On click of 'Register' command button, system shall perform following validations:

- a. All required data is entered
- b. All the entered data is valid
- c. User-ID is unique
- d. Entered SSN is associated with an active account
- f. Entered SSN is Not associated with an active user ID

### 6.3.3 'New User Registration' page data validations = Pass

In the event of passing of all the validations, display 'Account Summary' page in the same window

### 6.3.4 'New User Registration' page data validations = Fail

In the event of the failure of one or more validations, display the error messages as shown below

Failed Validation	Error Message Displayed
All required data is entered	<Data Field is a required field. Please enter a value for <Data Field>
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
User ID is unique	<User ID> is already taken. Please enter a different user id
Re-entered password matches with the entered	The entered password and the re-enetered

password	password do not match. Please try again
Entered SSN is associated with an active account	The entered SSN does not have an active account in the bank. Please re- enter the SSN
Entered SSN is NOT associated with an active User ID	The entered SSN is already associated with an active User ID. You are not allowed to create multiple User ID's

## **6.4 Cancel Registration**

On click of 'Cancel' command button, system shall discard the entered data and display "Online Banking" page in the same window.

## 6.5 Password Page

### 6.5.1 'Page' page data fields

System shall display the following data fields on the 'password' page:

#### Password Page

User interface

The mockup shows a page titled "Password Page". Below the title is a text input field labeled "Password" with a yellow callout '1' pointing to it. Below the input field is a blue "Login" button with a yellow callout '2' pointing to it. At the bottom is a blue hyperlink labeled "Forgot Password ?" with a yellow callout '3' pointing to it.

#### 1.1.1. Widget table

Note number	Field Name	Note
1	Password	Text Box Alpha-numeric Data is encrypted Min. Char 8 Max. Char 16
2	Login	On click, if validation passes, display 'Account Summary' page else display error message
3	Forgot Password	Hyperlink On click, display 'Forgot Password' pop-up/dialogue

## **6.5.2 Validate Password**

In the event of the user clicking the 'Login' command button, System shall validate the entered Password.

6.2.2.1 If the entered Password is valid, display 'Account Summary' page in the same window

6.2.2.2 If the entered Password is invalid, system shall calculate the password failure count.

6.2.2.2.1 If the password failure count is  $<3$ , display the following error message: Invalid password. Please re-enter a valid password.

6.2.2.2.2 If the Password failure count=3, the system shall lock the account and display the following error message: Your account is locked. Please call 1-800-xxx-xxxx to unlock your account

## **7 Issue/Open questions**