TEST PLAN FOR

CLOUD BASED IP-PBX PHONE SYSTEM

ChangeLog

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made
01		Rupesh Kumar	Corrected the calibration of extension plan

1 Introduction

A cloud-based phone system, or cloud phone, is a phone service that allows youto make calls over the internet rather than over a traditional analog phone line that uses copper wires or optical fibers to make a connection. Cloud phones are hosted in on or more offsite secure datacenters. Nowadays the EPBX (Electronic Phone Branch Exchange) system is used in many business organizations, Hotels, and Institutions etc. for voice communication. we are replacing the EPBX system with a Cloud based IP-PBX phone system for the use of voice communication in business enterprises, Educational Institutions etc.

1.1 Scope

1.1.1 In Scope

Some of the features, functional or non-functional requirements of the software that will be tested are:

- ✓ Calling Ability
- ✓ Dialing
- ✓ Registration Ability

1.1.2 Out of Scope

Some of the features, functional or non-functional requirements of the software that will not be tested are:

- ✓ Messaging Ability
- ✓ Call Recording

1.2 Quality Objective

Some objectives of this project are :

- ✓ To Ensure the seamless call Quality
- ✓ To Ensure the Security so that only authorised person can Register
- ✓ Fixed the calibration issue of extension with respect to user and its dial number
- ✓ User can easily register when provides username and password.

1.3 Roles and Responsibilities

- QA Analyst – Prof. Akanksha
- Test Manager – Prof. Shreela Pareek
- Configuration Manager – Prof. Neha Shukla
- Developers – Rupesh Kumar, Vinay Kumar , Yash Surya
- Installation Team - Prof. Akanksha , Prof. Shreela Pareek , Prof. Neha Shukla , Rupesh Kumar, Vinay Kumar , Yash Surya

2 Test Methodology

2.1 Overview

As this project dependent on integratoin of different existing units so on first level unit testing was done and then intergraton and after this the testing of whole system was done to ensure that the all major functionality are working fine.This whole testing was done manually by the team members.

2.2 Test Levels

1. Unit Testing : In this Testing differnet units was tested.
    - Asterisk Configuration Tests : Tested individual components of the Asterisk configuration, such as dial plans and call routing rules functionality.
    - Oracle Cloud Services Testing : Tested the functionality of Oracle Cloud services like network configurations
    - User Management Tests : Verified that user account creation, modification, and deletion work correctly.
2. Integration Testing : Tested how different components of phone system work together.To Ensure that Asterisk properly interacts with Oracle Cloud services and that data flows smoothly between them.
3. System Testing : Tested the functional aspects of phone system, such as making and receiving calls, and other features to ensure they work correctly.

3 Test Deliverables

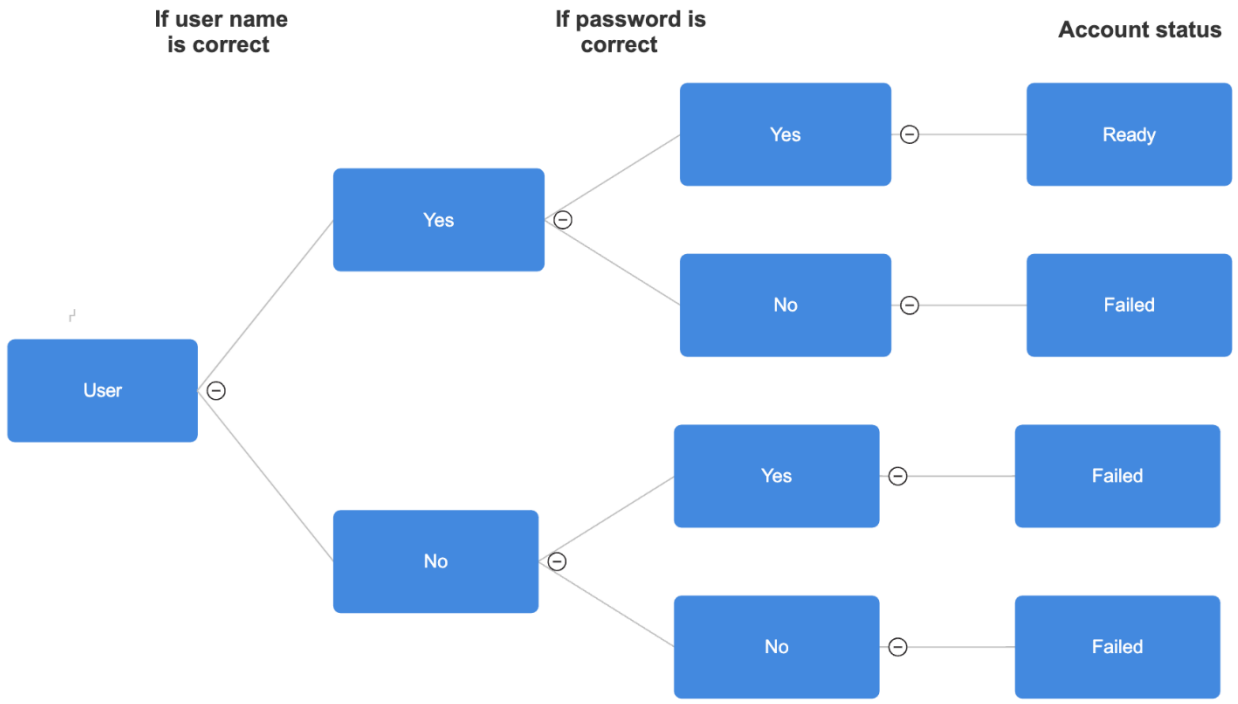
Here are some testcases of testing performed on the system

Test Case ID	Pre requisite	Steps	Input Data	Expected Output	Actual Output	Status
TC_01	Softphone/IP Phone	1.Enter Username 2. Enter Password 3. Click Create account	1. username@IP_address 2. Password	Account is ready	Account is ready	PASS
TC_02	Softphone/IP Phone	1.Enter Username 2. Enter Password 3. Click Create account	1. Wrong user name 2. Password	Registration failed	Registration failed	PASS
TC_03	Softphone/IP Phone	1.Enter Username 2. Enter Password 3. Click Create account	1. username@IP_address 2. Wrong Password	Registration failed	Registration failed	PASS
TC_04	Softphone/IP Phone	1.Enter Username 2. Enter Password 3. Click Create account	1. Wrong user name 2. Wrong Password	Registration failed	Registration failed	PASS
TC_05	Should be a Registered User	1. Dial Number 2.Make Call	1. Extension number	Call connected	Call connected	PASS
TC_06	Not a Registered User	1. Dial Number 2.Make Call	1. Wrong extension number	Extension not found	Extension not found	PASS

Decision Table For Registration Process

Input 1	Input 2	Output
Username	**Password**	**Action**
Correct	Correct	Account is ready
Correct	Incorrect	Registration failed
Incorrect	Correct	Registration failed
Incorrect	Incorrect	Registration failed

Decision Tree



Equivalence Partitioning		
Invalid	**Valid**	**Invalid**
<7001	7001,7002	>7002

4 Resource & Environment Needs

4.1 Test Environment

The following Environment is required in addition to client-specific software.

- Windows 8 and above
- Android 5.0 and above
- Mac OS

5 Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
IP-PBX	Internet Protocol Private Branch Exchange
EPBX	Electronic Phone Branch Exchange
OS	Operating System

Test Manager : Prof. Shreela Pareek
Sign.:

QA Analyst : Prof. Akanksha
Sign :

Configuration Manager : Prof. Neha Shukla
Sign.: