**Requirement Specification Document**

**Nekfa Australia (Pvt) LTD**

**User Login Service**

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01. Introduction

**1.1. Purpose**

The purpose of this document is to build an online system to register new user to our local government service project. This login service will help to user registration and user login into LGS.

**1.2. Document convention**

DB- Database

LGS - Local government system

**1.3. Intended Audience and Reading Suggestions**

This project is a prototype for the online platform that user can register through online and this project need save customer sensitive information and this has been implemented under the guidance of council members. This service is a part of LGS project and it is useful for the All Local government members and as well as to their customers.

**1.4. Project Scope**

The purpose of the online Registration and login is to user identification and user information authentication and create convenient and easy to use LGS application for Local users, trying to send requests for services and make payments. The system is based on a relational database with its service management and payment services. We will have distribute this in 50 of councils and we hope to provide a comfortable user experience along with the online platform.

02. Overall Description

**2.1. Product Perspectives**

User Login page

A login page is a web page or entry page to a website that requires user identification and authentication, regularly performed by entering username/ email and password combination. Login may provide access to an entire site or part of a website .logging off a webpage or site may be manual by the user or they can occur automatically when certain conditions (such as closing page, turning off computer, a long time delay, etc) occur.

User Registration

An online user registration is an online form that collect user information and save it in a relational database, to do after verification process (logging). This Registration may provide later access to an entire site or part of a website.

Forgot password

A user may forget their login password, it will course to login error.so in that case there should be an option for that. Indeed forgot password will recover user password and create new password. The new password will save on database on time.

**2.2. Product Features**

The major features of airline database system is shown in below Entity Relationship model diagram

Figure 01

Activity diagram

Figure 02

**2.3. User Classes and Characteristics**

User should be able to register on LGS and manage requests and make payments.in new registration system will verify user’s mobile number or email address through sending one time process code. After successful registration user will able to see login page again. User can enter their mobile or email as username, and enter password to logging .if he unable to enter password correctly. There is an option ‘forgot password’. System send OTP code into user’s mobile or email. After verification process he can enter new password and saved it. The customer should able to do the following functions:

* Create new account
* Password reset
* Log in
* Log out
* Change password

**2.4. Operating Environment**

Operating environment for user registration and login system is as listed below.

* OS: windows
* Database: MySQL
* Platform language: JS/HTML/PHP/C#

**2.5. Design and Implementation constraints**

Figure 03

Figure 04

03. System Features

**3.1. Functional Requirements**

FR1. Login/Sign up

Description: - The login and sign up module allow user to sign up his /her account on using Name, Address, Mobile, Email, and password. The existing users can login by providing their email/mobile and Password.

FR1.1. Create Account

Description: user can enter their information and click signup button. After that system shift page to OTP verification page. User must verify their mobile number before signup. After entering OTP click confirm and system should display login status (successful or not).

Input: Enter user Credentials (name/address/mobile/email/password)

Output: promoted to confirmation

Process: Display shift from sign up to confirmation page, send confirmation code (OTP) and login.

Figure 05 Figure 06

FR1.2 mobile Login

Input: enter mobile number and password

Output: opens a new window displaying the home page.

Process: display shift from login page to home page

Description: user can log in using mobile number and password. System must validate user mobile number is already registered or not. If it registered system should display error. System must validate password also. If user enter invalid password or mobile number system should display error “invalid credentials”.

FR1.3 email Login

Input: enter Email address and password

Output: opens a new window displaying the home page. Figure 07

Process: display shift from login page to home page

FR1.4 Forgot Password

Input: click link that ‘forgot password’ and enter email or mobile number

Output: promoted to confirmation

Process: Display shift from forgot password page to confirmation page, send confirmation code (OTP) and enter new password. After confirmation page shift to home page.

Figure 08 Figure 09 Figure 10

Description: if user forgotten his password, he can reset password through OTP verification .OTP verification should finished in 5 minutes. User can select email or phone number that already saved in user profile. After verification he can use new password to login. This whole process should take less than 10 minutes to complete.

FR2 Change password

Description: user should able to change their password after successful logging session. But here user should know his current password. Otherwise he unable to change it again. System should validate current password and confirm passwords. System should take less than 30 seconds to validation.

Figure 11

FR3 Log out

Description: user should able to logout after successful logging session.

Figure 12

04. External Interfaces Requirements

**4.1. User Interfaces**

* Front-end software: Visual code
* Back-end software: ASP.net API, MySQL

**4.2. Hardware Interfaces**

* Windows(version 7 or above)
* Web browser(suggestions: Chrome)

**4.3. Software Interfaces**

* Use windows as operating system
* Use SQL with database tool
* MySQL,PHP,ASP.Net to implement the project

05. Non Functional requirements

**5.1. Software Quality Attributes**

NFR1 Usability

User should able to manage login portal easily.

User should able to maintain login/signup windows without pro-technical knowledge

NFR2 Security

Password should have A-Z, a-z, 0-9 and any special characters.

Password should be at least 8 digit.

Sent OTP code through mobile number or/and email.

NFR3 Performance

Every page should load within 2 seconds.

OTP code verification duration should be 5 mints.

Signup process must be finish within 1 hour.

NFR4. Scalability

Login system should have ability to perform in workload