**User Requirements Specification**

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**Team Members:**

|  |  |  |
| --- | --- | --- |
| **Name** | **Group** | **Matriculation No.** |
| Mahesh Inna Kedage | SE25/FT07 | A0163390H |
| Vipul Gopal Zambare | SE25/FT07 | A0163409E |
| Rachel Gnanaraj | SE25/FT07 | A0163279W |
| Govardhan Gadirajurajasekar | SE25/FT07 | A0163235L |
| Monalisa Debnath | SE25/FT07 | A0163196Y |

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# INTRODUCTION

## Background

GTED-X provides various solutions for multiple SME business industries, result in different mobile applications.

GTED-X has got a product line called “My Life”, which is a set of mobile applications, targeting to help end-users manage their everyday life via optimise their communications with SMEs.

Founded in 2016, we are based in Singapore and have branches in China, Hong Kong, and Ukraine. Our team is made up of cloud development and services experts from global companies, comprising members from Singapore, India, China, Russia, Ukraine, and the United States.

## Objectives

The objective of this document is to:

* Provide the basis for the development of the “MyLove” Application.
* Define the functional requirements for the “MyLove” Application.
* Define the non-functional requirements that would be necessary to support the functional requirements.
* Identify the necessary requirements that would facilitate the future modification.

## Organization

**Section 1** gives an introduction to this document.

**Section 2** presents an overview of requirements for the System.

**Section 3** presents the functional requirements of the System

**Section 4** describes the non-functional requirements of the System.

## Scope

This user requirement specification begins to define the functional requirements for the following modules of the “My Love” Application:

1. Enhance GTED-X features:

1. File/data storage management system
   1. cloud storage management with data privacy supporting
      1. Use Cloud storage services (In progress)
         1. Upload, get & delete media files from Amazon’s S3 bucket storage
         2. Compress media files while uploading
         3. Enable permission control on media files by setting up access groups with specific read/write permissions
      2. add data privacy features (TBD)
      3. enable permission control upon data (TBD)
   2. offline storage framework, local data encryption. Esp., mobile app
      1. Protect data inside application (TBD)
2. Messaging Hub
   1. Notifications (In progress)
      1. Local as well as server pushed notification
   2. On click of notifications, launch application instance for the requested feature/page
   3. Quick action on notification bar - music play/pause, mark TODO item as DONE
3. Event Management System (TBD)
4. GTED-X scalable application management (TBD)

2. Data sharing management, control of data sharing , protection & display (TBD)

1. Quick launch, share anything at anytime, anywhere (TBD)
2. Multiple data collection channel (TBD)
3. Real time data sharing (TBD)
4. Asynchronous data sharing (TBD)
5. Switch data sharing (TBD)
6. Data archive (TBD)
7. Data Storage (TBD)

3. Toolset for Love , scalable toolset for love, series of fancy tools that love are willing to use

1. IM toolset for love (TBD)
2. Toolset fro scheduling (TBD)
3. Toolset to “do things together” (TBD)
4. Toolset for next phase (TBD)

This document explains the functional as well as the non-functional requirements and the user interface requirements of the above mentioned modules as covered as a part of the Sprints.

# OVERVIEW OF REQUIREMENTS

## Introduction

“My Love” is part of “My Life”, will be delivered as single product. “My Love” is to provide better solutions for love daily life.

There’re three phases of LOVE.

1. Infatuation phase

2. Infatuation has run out, live a balance of emotional life and rational life between each other

3. Married and settled

My Love is targeting to resolve the pain points for phase 2 and get prepared for phase 3.

The key words for this solution are **communications**, **sharing** and **privacy protection**.

MyLove Application shall focus mainly on strengthening of the above mentioned characteristics to facilitate a cordial relationship amongst lovers by focusing on six major requirements:

* + - Rich media data sharing management
    - Instant messaging tool set
    - Scheduling tool set
    - Together framework
    - Data privacy solution
    - Scalable application management

\*All modules are targeting to cross platform products, including mobile, pad, laptop/desktop.

## System Perspective

This application aims to provide a platform for:

* + - Lovers want a place to “share everything” with each other. But they lack of solution to manage the fragmented information.
    - Lovers want to have close communication with each other. But they lack of communication channel(s) for “love”.
    - Lovers need some level of personal space and privacy.
    - Lovers want privacy protection of all their information. Esp., when they break up.
    - Lovers want solutions to shift from lover to family.
    - Lovers want personal tool to keep details and memories of each relationship.

## System Functions

For My Love, project team shall design, implement and deliver a product that covers six main demands, namely “rich media data sharing management”, “instant messaging tool set”, “scheduling tool set”, “together framework”, “data privacy solution” and “scalable application management”, in order to resolve the pain points of love.

* + **S**torage solution to share data (rich media) with fancy UED for high usability amongst couples.
  + Messaging platform to provide special communication channel for lovers, and special tool set for lovers’ use only. A so-called “do things together” framework to help lovers focusing on the process of doing something.
  + Strong scheduling solution to help lovers balance life within/without their relationships.
  + Data privacy solution to protect information storage within the application as well as Cloud.
  + Seamless Data migration and service upgrade solution to shift “my love” to “my family”.
  + Highly scalable application designer for couples.

## User Characteristics

The Users of the application are targeted as to be potential lovers looking for a platform for communication, personal space and privacy.

# FUNCTIONAL REQUIREMENTS

This section describes the functional requirements of the My Love system :

1. **Rich media data sharing management** – The media storage and management requirements of the modules implemented in this project.
2. **Instant messaging toolset**– The user interface requirements and the functional specifications of this tool.
3. **Scheduling toolset** – The data, storage and email requirements generic to the whole system and for the modules defined in this document.
4. **Together framework (TBD)**
5. **Data Privacy Solution (TBD)**
6. **Scalable application management (TBD)**

The processing requirements is explained for the following modules

1. Service Desk Management
2. Service portfolio Management
3. Service catalogue Management
4. Application Management
5. Service Level Management
6. Knowledge Management
7. Incident Management
8. Service Validation and Testing
9. Manage Mobile Integration

## Detailed Requirement Specification

## Rich media data sharing management

This module allows the storage and enabling controlled access to the media files to be used throughout the application.

The client already has the the architecture in place and the same shall be used for the My Love application from the legacy application.

**Change in Requirement:**

Incident Management should work in accordance with Manage changes and should not work as an independent module. Both Incident Management and Manage Changes should have the same workflow.

Ref. ISS\_IE\_Manage Operations User stories.

## Manage Mobile Integration

Manage Mobile Integration will let the user access instant edge platform on the mobile device. The user will be able to login on the mobile app and receive notification whenever there is a new item in his unified inbox. On click of the notification the user will be redirected to his unified inbox. This Module should makes use of “Push Notification”. Create a cross platform application.

The platforms considered are Android and iOS.

**Change in Requirement:**

Built two Native Apps: one iOS and one Android. The mobile application should be able to redirect the user to the instant edge Dashboard. Ref. ISS\_IE\_ManageOperations User stories.

## User Interface Requirements

The “Manage Operations” module has to be developed in line with the existing UI standards already in place for the Enterprise Management System.

# 4. NON-FUNCTIONAL REQUIREMENTS

## Capacity requirements

Requirement under this module are yet to be determined

## Uptime requirements

Requirement under this module are yet to be determined

## Security requirements

* User roles must be defined in advance, and privileges of each role must be also defined. The system should maintain the security of the application so that only privileged users can access the particular web pages.
* The password storage should be encrypted. The password policy and password expiry are already defined and maintained.
* All data transmission between client web browser and web server must be secured, especially during authentication. The SSL certificate will be incorporated with the application.

## Reusability

The main aim of this application is to re use the code wherever possible. The software components developed can be reused within the application or in various similar applications.

## Usability

The system should provide an effective and easy to use user interface and should maintain consistency throughout the system. The system may provide localization and internationalization requirements.

## Data Integrity

The system should maintain the data integrity in the databases. All the tables should have unique key and referential key constraints and none of the records should be deleted from the database explicitly by code for accountability and audit requirements. The system should also maintain integrity on the document revisions. The document should be saved in file system / database and should be archived as per storage requirements.

## Maintainability

The system should be developed in conformance to the architectural standards, design standards and coding standards. The standards followed in the system should be documented for reference.

## Configurability

The system should be configurable so that most of the modules can be used with various client with little customization. The Change in Business Process, User Interface and messages should to be done with minimum efforts.