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### Espoir **Software Requirements Specification**

### **Version** 3**.0**

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# **Description**

The Espoir Software Requirements Specification provides a list and description of the functional and non-functional specifications for the software components of Espoir.

* The Espoir Software Requirement provides the following views of the requirements.
* A list of the requirements presented numerically.
* A preliminary component grouping of the requirements.
* Use case explorations of the requirements.
* A preliminary mapping of the requirements against proposed objects and their responsibilities.

The document is intended to establish the initial scope of the development effort.

## **Perspective**

This is an application that helps the localities to obtain the government services directly. If the residents of a particular area face any problem with respect to their living environment, they can lodge a complaint to their respective municipality in a jiffy with the help of this app and specifying their problem and location.

## **Product Functions System Decomposition View**

Preliminary functional components of the product are as follows :

* Stripe 1 : Application Opening
* Stripe 2: Home Screen with GUI Elements
* Stripe 3: List of complaint categories
* Stripe 4: Selection of Location and details
* Stripe 5: Placing of Complaint

## **User Characteristics**

This application can be used by anyone who wish to place a complaint.

# External Resource Requirements

The issues dealt within this section of the document pertains to the user and system requirements that affect the operation of the app.

## User Interface

In Corona, widgets provide user-interface tools that are standard features when programming

in the native development environment for iOS and Android. The app includes the following

widgets:

* Buttons- The widget.newButton provides a button that supports onPress,onRelease, and onEvent events.
* Scrollview- The scrollview widget allows you to create scrolling content areas.
* Tab bar- The tab bar allows you to create a customizable tab bar. Tabs are auto positioned based upon the number of buttons.
* Tableview- The tableview widget allows you to create a scrolling list. With this widget rendering of individual rows is controlled.

## 

## Hardware Interface

The app is supported on all android and iOS devices which includes mobiles, tabs, televisions.

## Communications Interface

The user interacts with the app using the touch screen, buttons or even remotes in case of televisions.

# Functional Requirements Views

This section provides the first of three views of the functional requirements.

* The first view provides a primary list of the functional requirements. This list is organized sequentially.
* The second view provides a list of the functional requirements as grouped according to component. A component is also called a “stripe.” Each stripe represents a coherent grouping of functionality.
* The third view provides a set of use cases that provide proofs-of-concept for the requirements. The use cases serve as a supplement to the master requirements list. See Appendix A for a use-case view of the requirements listed in the this section.

**Primary List of Functional Requirements**

**<Req\_1>**

An account can be created in the app.

**<Req\_2>**

App allows you to register complaints under “Place a Complaint”.

**<Req\_3>**

App has many categories under which the complaints can be placed as you wish.

**<Req\_4>**

Some of the categories under which the complaints can be placed are as follows.

* Roads.
* Garbage.
* Drains.
* Street Lights.
* Mosquito.
* Stray Animals.
* Public Safety.
* Corruption.
* Buildings.
* Welfare.
* Health.
* Tree Control.

**<Req\_5>**

Apart from the above mentioned categories, there are certain additional categories under “Others” such as :

* Advertisement Related.
* Animal and Pest Control.
* Animal Health.
* Building Plans.
* Dangerous Condition.
* Education Planning.
* Education Resource.
* Illegal Activity.
* Illegal Structure.
* Information Request.
* Park Improvement.
* Pollution Related.
* Encroachment Related.

**<Req\_6>**

After placing the complaint ,you will be notified with an SMS to the registered mobile number which will contain the details of the person or the department that is responsible for resolving the complaint that you have placed.

**<Req\_7>**

If the complaint is resolved, then you will be notified with another SMS.

**<Req\_8>**

App has a facility to check the complaints that have been placed by the user under “My Complaints”.

**<Req\_9>**

App contains all the details like request number,open date,status and category.

**<Req\_10>**

App has an option where the user can report a bug through Email.

**<Req\_11>**

The app can be shared.

# **Design Constraints**

This section lists design constraints. Design constraints pertain to any development factors that relate to the scope of the project or that can impact the development schedule for the product.

## **Availability**

The application is available for for use after installation. A single installation package allows the user to install the application. After the installation is done, the user must register by providing his/her email-id and contact number. After the registration is done, the user can place a complaint anytime.

## **Security**

There are no security issues.

## **Maintainability**

There is no maintenance required.