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2. Purpose
   1. Intended Audience

This SRS document describes the System Requirements and Software Design for an AIoT Library Book Reservation and Collection System and the target audience are System and Software Engineers working on the development of this project

* 1. Intended Use

The SRS defines the overall System Architecture and Requirements as well as the Software Architecture and Design. This document is also contains the definition of the System Requirements which shall be used as the input for System Test cases and Software Unit Test cases.

* 1. Scope
  2. Definitions and Acronyms

1. Overall System Description
   1. Use Case Diagrams



Library Patrons



Library

* 1. System Architecture

Raspberry Pi Development Board

Camera

Motor

LCD

RFID Card Reader



* 1. Functional Requirements

2.3.1. Starting Menu

|  |  |
| --- | --- |
| **REQ\_ID** | **Requirement** |
| REQ-01 | Users shall be able to select the library branch from which they wish to borrow books. the main menu with the text below shall be displayed on the LCD screen:  Line 1 = “Library”  Line 2 = “Main Menu” |
| REQ-02 | In the main menu defined in REQ-01, if the option “Select branch” is selected on the keypad, then the following menu shall be displayed on the LCD screen  Line 1 = “Location 1”  Line 2 = “Location 2” |
| REQ-03 | In the main menu defined in REQ-01, if the option “Exit app” is selected, the LCD should be turned off. |
| REQ-04 | In the select branch menu |
| REQ-05 |  |
| REQ-06 |  |
| REQ-07 |  |
| REQ-08 |  |
| REQ-09 |  |
| REQ-10 |  |
| REQ-11 |  |
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