Cloud App

Requirement Specification

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# Introduction:

## Objective:

Document all requirements and features to be developed for the system for clear understanding by all stakeholders

## System Objective:

Automate check in of guests to achieve

1. Smoother experience for guests
2. Efficient processing by organizers
3. Reduced manpower dependency
4. Real time data of guest status
5. *(Should this be here?) Verify mobile numbers of guests*
6. Anything else to be documented?

# References

## Acronyms and keywords

Add table here

## External references

Add table here

# Assumptions

List assumptions here

# Technology Stack

Itemize in table all technologies, frameworks and tools expected to be used

# Requirements – General

1. Application should be hosted on a cloud platform
2. Application will interface with Mobile Gateway for Missed Calls and SMS
3. Application will interface with Barcode Reader to physically identify Badge
4. a

# Requirements

Direct functional requirements of the application

## Load guest list to application

1. Guest details prepared in MS Excel formatted as ‘Tab Separated Text’ should be imported into the system database for use
2. Upload data should be formatted as ‘Tab Separated Text’
3. Structure of data in upload file will be as defined in [Upload File Format](#_Upload_File_Format)

## Guest RVSP confirmation

#### By Missed Call

#### By SMS, with Ticket Number as content

1. Identify guest by using Registered Ticket Number
2. Identify guest by Registered Mobile Number Lookup
3. If (1) or (2) is successful, confirm by SMS to guest their request is being processed
   1. Message Text content to be user configurable
4. [Print Badge of guest](#_Print_Badge_of)
5. If (1) or (2) fails, confirm by SMS to guest their request could not be processed
   1. Message text content to be user configurable
6. Add Mobile number and Time Stamp to [Contact History](#_Contact_History)

#### By Web page

1. Provide web page for guests to confirm their attendance
2. Web page should accept
   1. Registered Mobile number
   2. Registered Ticket Number
   3. User Comments
3. Success is when both (a) and (b) are correct
4. On Success, [Print Badge of Guest](#_Print_Badge_of)
5. On Failure, display regret message to guest
   1. Message text content to be user configurable
6. Web page should accept requests to update guest’s Registered Mobile Number
7. Details to be provided by guest to update their Registered Mobile Number
   1. Registered Mobile number
   2. New Registered Mobile number
   3. <TODO: Other details to be identified>

## Manual Badge printing

1. Repeat [Print Badge of Guest](#_Print_Badge_of) by using Badge Number, to be used in case
   1. Badge printing failed, or
   2. Badge damaged or lost by Guest
2. Use [Guest RVSP confirmation - By Web page](#_By_Web_page) to print Badge

## Print Badge of Guest

1. Generate Badge number using [Badge Number Format](#_Badge_Number_Format)
2. If number has already been generated, reuse the generated Badge Number
   1. CHECK: Booth number?? Or regenerate?

## Badge Print Verification

1. Physical confirmation of successful badge printing, by
   1. Barcode Scanner
   2. Web page manual entry
2. Web page to be mobile device friendly

## Guest Check in Verification

1. Physical confirmation of Guest check-in, by
   1. Barcode Scanner
   2. Web page manual entry
2. Web page to be mobile device friendly

## User Authentication

1. Login to the system using user-id and password defined in the system
2. TODO: basic security will be implemented for phase 1

# Subsidiary Requirements

Indirect or implied requirements required to implement direct or primary requirements

## Application Settings

1. Application configuration parameters for run time use
2. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## System Roles

1. Create and Manage user roles and access authorizations
2. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## Event Management

1. Enable multiple events to be managed by the system
2. Sandboxing each events data to support multiple events in the system
3. Sandboxing should be done for
   1. TODO:
4. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## User Management

1. Create and manage users for system access
2. Link User to one or more Events
3. Manage user-role mapping for users

## Booth Management

1. Create Booths
2. Link user to Booth
3. Manage booth status

## Print Layout Editor

1. Define badge size and margins
2. Define dynamic content fields
3. Define placement of fields
4. Note: see [Phase 1 deviations](#_Phase_1_deviations)

## Print Job Queue Management

1. Route print jobs to printer, based on
   1. Active printers
   2. Count of waiting jobs on printer
   3. Pre-defined printer destination
2. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## Contact History

1. List of Missed calls and SMS received, updated near real-time
2. With flags to indicate processing
   1. Success
   2. Failure
3. Allow filtering by
   1. Processing outcome
   2. Contact type
4. Allow user to set page auto-refresh mode
5. Allow user to define refresh frequency of data
6. Allow user to define count of most recent events displayed on the page

## Dashboard 1

1. Counts of total guests, RVSP guests and checked in guests in numbers and percentages
2. As graph or pie chart
   1. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## Dashboard 2

1. Count of active booths
   1. Fixed booths
   2. Mobile booths
2. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

## Archive Historical data

1. TODO: No discussion for now, to be considered for future implementation
2. Archive event data for post-processing and/or data mining
3. NOTE: see [Phase 1 deviations](#_Phase_1_deviations)

# Risks and Challenges

Identify and list any perceived risks and challenges towards implementation of requirements

## Print Formatting

1. Alignment accuracy from web page
2. Automatic printing – as document
3. Phase 1 – direct print
   1. Manual setting of browser configuration will need to be done on each device that is expected to print

## Barcode integration

1. Read barcode data directly into web page from barcode scanner
2. Rahul confirms ownership for implementation

## Phase 1 deviations

1. The following features will be hardcoded and UI will be planned and developed in later phases
   1. [Application Settings](#_Application_Settings)
   2. [System Roles](#_System_Roles)
   3. [Print Layout Editor](#_Print_Layout_Editor)
   4. [Dashboard 1](#_Dashboard_1)
   5. [Dashboard 2](#_Dashboard_2)
2. The following features will are planned for future phases
   1. [Event Management](#_Event_Management)
   2. [Print Job Queue Management](#_Print_Job_Queue)
   3. [Archive Historical data](#_Archive_Historical_data)
3. The following issues are likely in phase 1, and should be addressed in future releases
   1. Gaps in Badge sequence numbers
   2. Duplicate prints of a single Badge
   3. Alignment of content on Badge
4. User Interface / Screen layout
   1. Will be basic functional for phase 1, and should be fully developed in future phases
      1. User input validations
      2. Look and Feel
      3. Responsive – adapt layout to device size

# Other

Placeholder for any information not grouping to any section above

## Upload File Format

| **S No** | **Field Name** | **Data Type** | **Comment** |
| --- | --- | --- | --- |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

## Badge Number Format

|  |  |  |  |
| --- | --- | --- | --- |
| **S No** | **Column(s)** | **Details** | **Comment** |
| 1 | 1 | Alpha – Numeric | Identifies Booth/Printer/Badge Pickup location |
| 2 | 2 | Alpha – Numeric | Identifies guest category, from guest data |
| 3 | 3-n | Numeric | Running number, incremented with each print command |

## Message Contents

### RSVP Success Message

#### Applies to

Missed Call, SMS, Web Request

#### Content

TODO: Your request is being processed

### RSVP Failure Message

#### Applies to

Missed Call, SMS, Web Request

#### Content

TODO: Thank you for contacting <us>. Your request could not be processed, please call +91 xxx for assistance.