

SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT

VERSION 1.0

for

ID CARD SYSTEM

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-- REMOTE INTERNSHIP PROGRAMME --

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1. INTRODCUTION

1.1 PURPOSE OF THIS DOCUMENT

The purpose of this Software Requirement Specification Document is to provide a detailed overview of our product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how the client i.e. admin and user i.e. employee see the product and its functionality.

1.2 SCOPE OF THE PROJECT

The goal is to design web portal providing facilities for ID Card management for an organization. In this system, a user will be issued a card containing his/her information. User can then make a card block request, temporary card request and duplicate card request as and when needed. The admin will be the person responsible for registering a new employee (user), issuing ID Card and for treating those requests as well. All the data being accessed will be stored in a central repository (database server) and temporary and duplicate card's details will be stored in a separate table for future reference.

The system must be able to perform the following operations:

- Register New Employee
- Issue ID Card
- Block Card
- Issue Temporary Card
- Issue Duplicate Card
- Check Status (with filters)
- Generate Requests

1.3 INTENDED AUDIENCE AND READING SUGGESTIONS

This document is intended for any individual user, developer, tester, project manager or documentation writer that needs to understand the basic architecture and its specifications. Here are the potential uses for each one of the reader types:

1. **Developer** : *The developer who wants to read, change, modify or add new requirements into the existing system, must firstly consult this document and update the requirements in appropriate manner.*
2. **User** : *The user of this system reviews the diagrams and the specifications presented in this document and determine if the system has all the suitable requirements and has been implemented well.*
3. **Tester** : *The tester needs this document to validate that the initial requirements of this system actually corresponds to the executable portal correctly.*

2.0 DIAGRAMMATIC REPRESENTATION

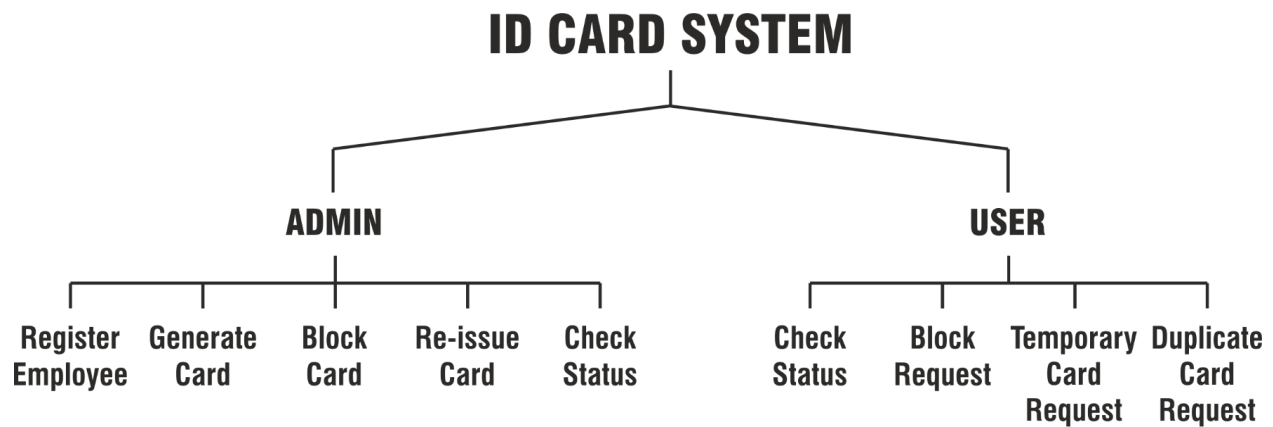


fig. : General Architecture of System

2.1 GENERAL WORK FLOW OF PROPOSED SYSTEM

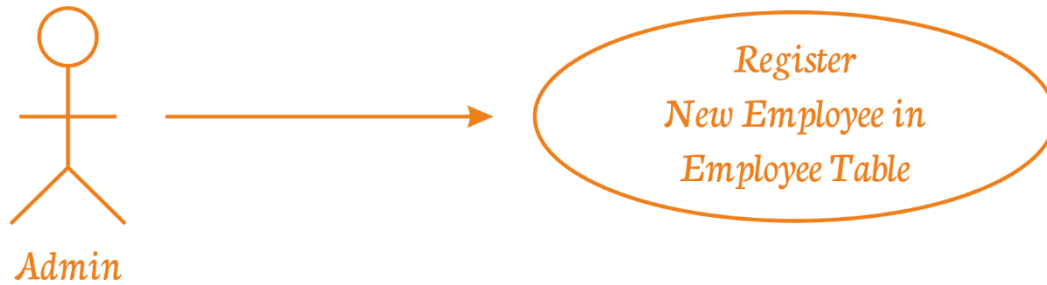
The system has two actors i.e. admin having all the rights including registering employees, issuing cards, blocking, re-issuing etc. The other one is user who can check the card status and generate requests regarding blocking, temporary card and duplicate card. Admin is the person responsible for treating the same.

2.2 FUNCTIONAL REQUIREMENTS SPECIFICATION

This section outlines all the Use Cases for any user of the system separately :

2.2.1 USE CASE: REGISTER NEW EMPLOYEE

Diagram:



Brief Description:

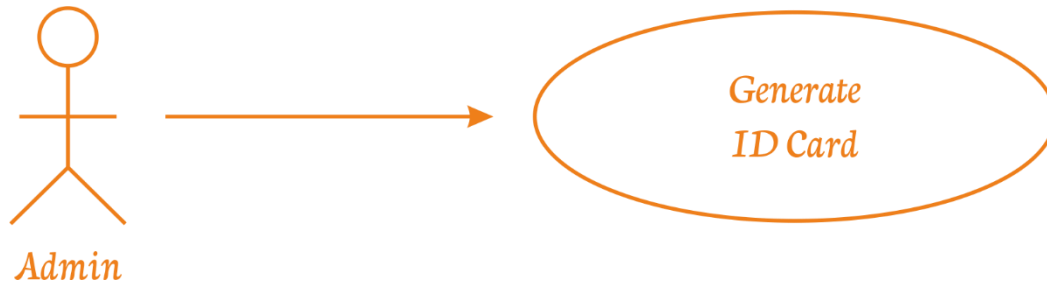
The admin will upload the details of a new employee in organization's employee table.

Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to register new employee.
2. Here the admin has two choices whether to register employees individually by using the form containing various input fields or to register employees in bulk by uploading excel file.
NOTE: Excel file must be created in pre-defined format.
3. After successful submission of entries, admin will be provided a message displaying the number of employees registered.
4. The card status will be initially 'Pending'.

2.2.2 USE CASE: GENERATE ID CARD

Diagram:



Brief Description:

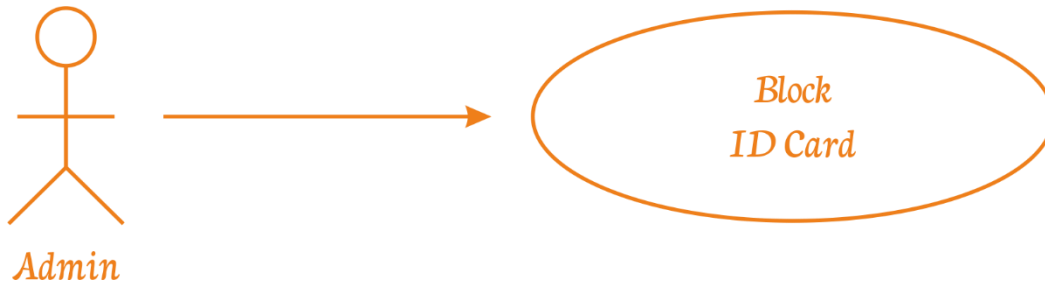
The admin will Generate ID Card by Employee ID

Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to Generate ID Card.
2. The admin has to simply type the ID of the employee who ID Card is to be generated and click on Generate.
3. A pop-up will appear displaying the ID Card of the person containing the Card Number randomly generated by the script.
4. The card status will be replaced by 'Active'.

2.2.3 USE CASE: BLOCK ID CARD

Diagram:



Brief Description:

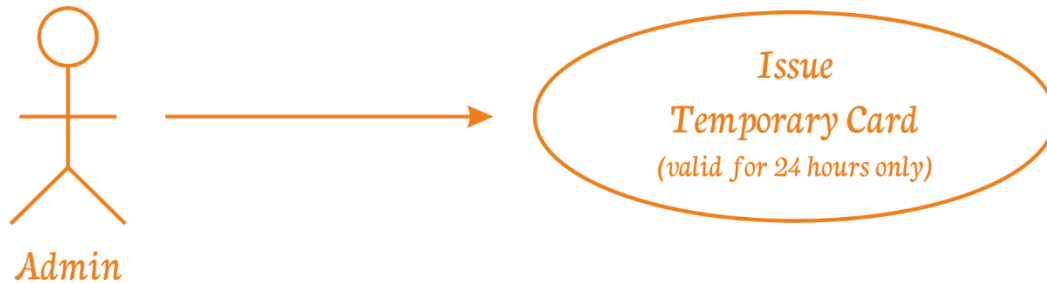
The admin will block ID Card whenever requested by the employee in case of lost or other circumstances.

Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to Block ID Card.
2. Admin can block any ID Card by simply inputting the Employee ID and clicking on Block Card.
3. A pop-up will appear displaying the ID Card of that particular employee having a BLOCKED stamp on it.
4. The card status will be replaced by 'Blocked'.

2.2.4 USE CASE: ISSUE TEMPORARY CARD

Diagram:



Brief Description:

The admin will issue a temporary card in case of a request from employee.

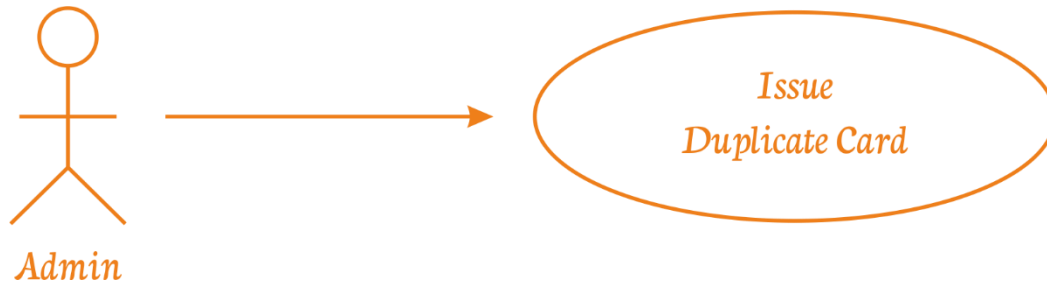
Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to Re-issue Card.
2. Admin will enter Employee ID and click on Issue Temporary Card.
3. A new card will be generated and displayed in form of pop-up having TEMPORARY stamp.
4. The card status will be 'Blocked' in actual table and temporary card details will be stored in separate table where card status will be 'Temp'.

NOTE: After a time span of 24 hours this 'Temp' will turn to 'Block' and the actual card will be active automatically.

2.2.5 USE CASE: ISSUE DUPLICATE CARD

Diagram:



Brief Description:

The admin will issue a duplicate card in case of a request from employee.

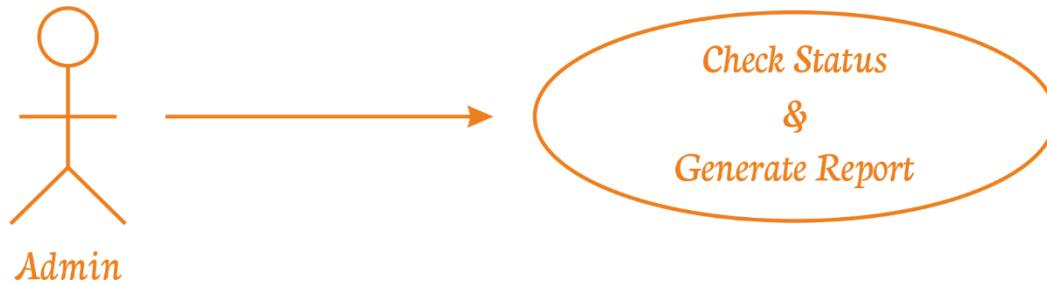
Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to Re-issue Card.
2. Admin will enter Employee ID and click on Issue Duplicate Card.
3. A new card number will be generated and replace the previous card number in employee table while the old card number will be stored in separate table for future reference.
4. Card status of new card will be 'Active'.

NOTE: Old card will be inoperable by default as it is no longer available in access authorization table.

2.2.6 USE CASE: CHECK STATUS AND GENERATE REPORT

Diagram:



Brief Description:

The admin can access all the card related details stored in the employee table for general purpose or to generate reports as well.

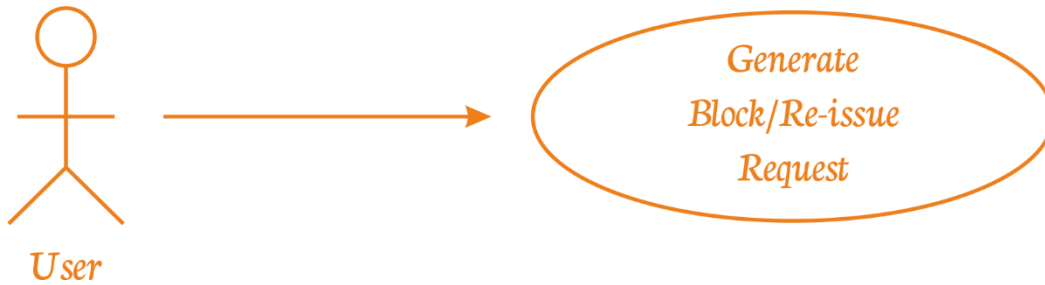
Initial Step-By-Step Description:

1. The admin logs in to the panel and opt to Check Status.
2. Admin will be served with a data table having all the card related details. Here admin will be provided with the facility to filter output as per requirement.

NOTE: Various export tools [Copy | CSV | Excel | PDF | Print] will be there to generate reports.

2.2.7 USE CASE: REQUEST GENERATION FROM USER END

Diagram:



Brief Description:

The user will be capable of generating a request in terms of dropping a mail to concern authority as per requirement.

Initial Step-By-Step Description:

1. The user logs in to the panel and opt to generate appropriate request.
2. A mail window will open having subject line pre-set according to the kind of request.
3. After filling details in 'To:' and 'Message:' field user will click on Send Request to generate request.
4. After successful submission a confirmation message will be displayed.

3.0 REQUIREMENT SPECIFICATION

- **FRONT END** : HTML5 | CSS3 | JSP
- **BACK END** : ORACLE 10G
- **WEB SERVER** : APACHE TOMCAT 7.0.X
- **TOOL** : JDK 1.6.0_04

- www.google.co.in
- en.wikipedia.org
- www.w3schools.com
- tomcat.apache.org
- www.coreservlets.com
- www.webopedia.com
- 24hourhtmlcafe.com
- Java 2 Enterprise Edition (J2EE) Web Component Developer : Sun Certification Training Guide (310-080) by Alain Trottier
- Core Servlets and JavaServer Pages : Advanced Technologies, Vol. 2 (2nd Edition) by Marty Hall, Larry Brown, Yaakov Chaikin
- Web Technologies Black Book : HTML, JavaScript, PHP, Java, JSP, XML and AJAX (Author : Kogent Learning Solution Inc.)
- Sams Teach Yourself HTML, CSS, and JavaScript All in One by Julie Meloni