



Customer Relationship Management Technical Design Document

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1.0 Introduction

1.1 Purpose of this document

The purpose of this document is to document the technical design, component details and Database design. This will also capture the scope, assumptions, risk, dependencies of this project.

1.2 Project overview

Customer Relationship management is a web based on spring boot application. It maintains the customer and his related information into the database. If the customer adds any new information, it will be updated to the database.

There is mainly one role which is user who can login/signup, update and retrieve data from the database.

2.0 Solution Summary

2.1 Scope

Creation of spring boot application for Customer Relationship Management

2.1 Assumptions

User: Can login, signup, update and retrieve data through the web interface.

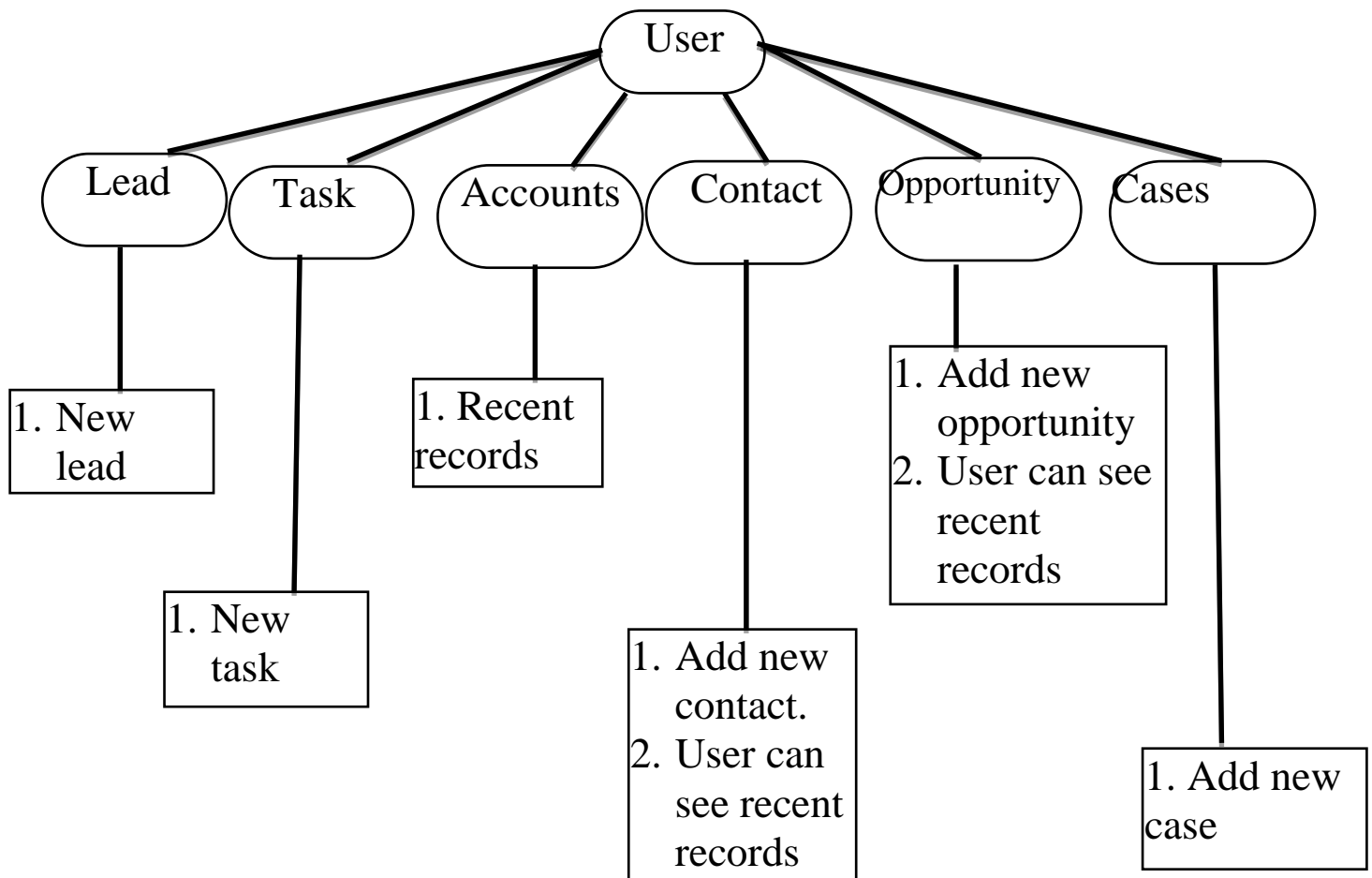
2.2 Dependencies

1. Hardware Requirements:
 - Developer PC
2. Software Requirements:
 - Browser
 - Eclipse IDE
 - MySQL Server
 - Spring Tool Suite
 - Maven

2.3 Risks

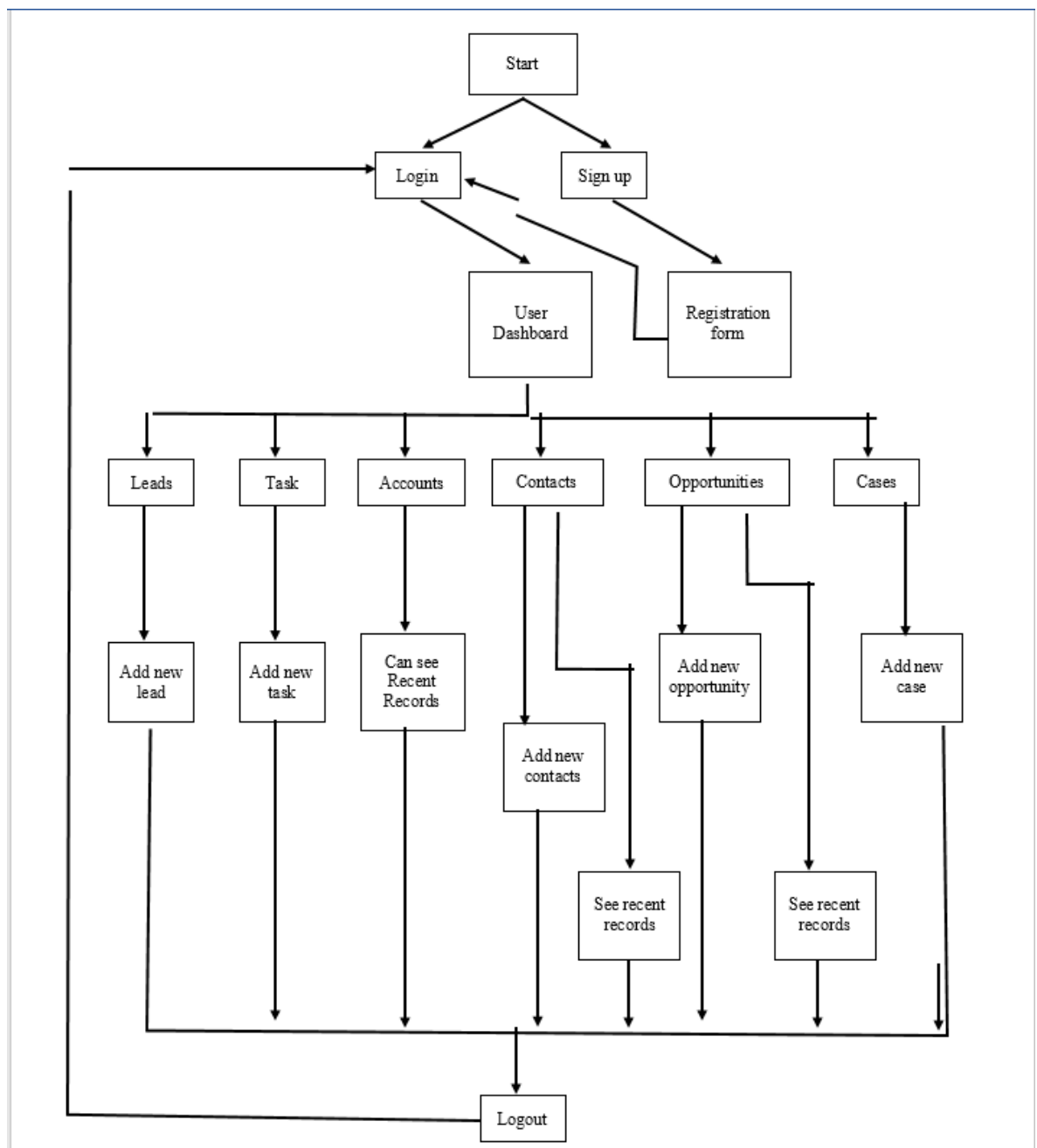
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3.0 Schematic Diagram

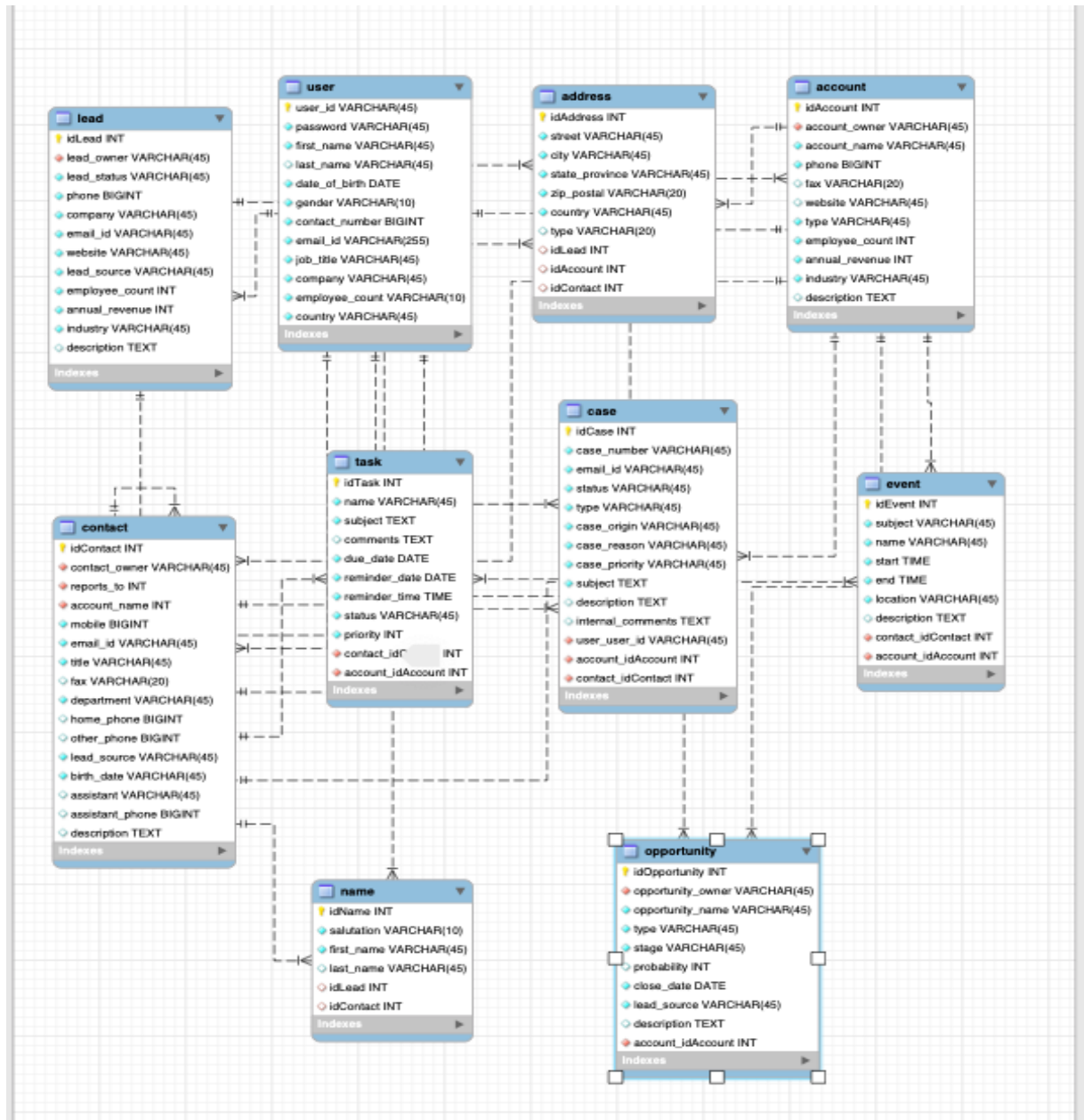


4.0 System Design

4.1 Proposed design



5.0 Database Design



5.1 Tables Structure

User:

Column Name	Data Type	Length	Nulls
user_id	varchar	45	notnull
password	varchar	45	notnull
first_name	varchar	45	notnull
last_name	varchar	45	Null
date_of_birth	date	-	notnull
gender	varchar	10	notnull
contact_number	BIGINT	-	notnull
email_id	varchar	255	notnull
job_title	varchar	45	notnull
company	varchar	45	notnull
employee_count	varchar	10	notnull
Country	varchar	45	notnull

Lead:

Column Name	Data Type	Length	Nulls
idLead	int	-	notnull
lead_owner	varchar	45	notnull
lead_status	varchar	45	notnull
phone	BIGINT	-	notnull
company	varchar	45	notnull
email_id	varchar	45	notnull
website	varchar	45	notnull
lead_source	varchar	45	notnull
employee_count	int	-	notnull
annual_revenue	Int	-	notnull
industry	varchar	45	notnull
description	Text	-	notnull

Contact:

Column Name	Data Type	Length	Nulls
idContact	int	-	notnull
contact_owner	varchar	45	notnull
reports_to	int	-	notnull
account_name	int	-	notnull
mobile	BIGINT	-	notnull
email_id	varchar	45	notnull
title	varchar	45	notnull
fax	varchar	20	notnull
department	varchar	45	notnull
home_phone	BIGINT	-	notnull
other_phone	BIGINT	-	notnull
lead_source	varchar	45	notnull
birth_date	varchar	45	notnull
assistant	varchar	45	notnull
assistant_phone	BIGINT	-	notnull
description	Text	-	notnull

Event;

Column Name	Data Type	Length	Nulls
idEvent	int	-	notnull
subject	varchar	45	notnull
name	varchar	45	notnull
start	time	-	notnull
end	time	-	notnull
location	varchar	45	notnull
description	text	-	notnull
contact_idContact	int	-	notnull
account_idAccount	Int	-	notnull

Account;

Column Name	Data Type	Length	Nulls
idAccount	int	-	notnull
account_owner	varchar	45	notnull
account_name	varchar	45	notnull
phone	bigint	-	notnull

fax	varchar	20	notnull
website	varchar	45	notnull
type	varchar	45	notnull
employee_count	int	-	notnull
annual_revenue	Int	-	notnull
industry	varchar	45	notnull
description	Text	-	notnull

Address;

Column Name	Data Type	Length	Nulls
idAddress	int	-	notnull
street	varchar	45	notnull
city	varchar	45	notnull
state_province	varchar	45	notnull
zip_postal	varchar	20	notnull
country	varchar	45	notnull
type	varchar	20	notnull
idLead	int	-	notnull
idAccount	Int	-	notnull
idContact	int	-	notnull

Opportunity:

Column Name	Data Type	Length	Nulls
idOpportunity	int	-	notnull
opportunity_owner	varchar	45	notnull
opportunity_owner	varchar	45	notnull
type	varchar	45	notnull
stage	varchar	20	notnull
probability	Int	-	notnull
close_date	date	-	notnull
lead_source	varchar	45	notnull
description	text	-	notnull
account_idAccount	int	-	notnull

Case:

Column Name	Data Type	Length	Nulls
idCase	int	-	notnull
case_number	varchar	45	notnull
email_id	varchar	45	notnull

status	varchar	45	notnull
type	varchar	45	notnull
case_origin	varchar	45	notnull
case_reason	varchar	45	notnull
case_priority	varchar	45	notnull
subject	text	-	notnull
description	text	-	notnull
internal_comments	text	-	notnull
user_user_id	varchar	45	notnull
account_idAccount	int	-	notnull
contact_idContact	Int	-	notnull

Task

Column Name	Data Type	Length	Nulls
idTask	int	-	notnull
name	varchar	45	notnull
subject	Text	-	notnull
comments	text	-	notnull

due_date	date	-	notnull
reminder_date	date	-	notnull
reminder_time	time	-	notnull
status	varchar	45	notnull
priority	int	-	notnull
contact_idContact	int	-	notnull
account_idAccount	Int	-	notnull

Name

Column Name	Data Type	Length	Nulls
idName	int	-	notnull
salutation	varchar	10	notnull
first_name	varchar	45	notnull
last_name	varchar	45	notnull
idLead	int	-	notnull
idContact	int	-	notnull

6.0 Appendices

6.1 Glossary

Acronyms	Definitions

6.2 Other

7.0 Terms & Conditions

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8.0 Change Log

Please note that this table needs to be maintained even if a Configuration Management tool is used.

Version Number	Changes made			
V<n.n>	<If the change details are not explicitly documented in the table below, reference should be provided here>			
	Page no	Changed by	Effective date	Changes effected