**Design Document**

**TEAM 2 (Mavericks)**

**CRM (Customer Relationship Manager)**

Design Document

By

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1. **INTRODUCTION**

**1.1 Purpose**

This Design Document describes the architecture and specifications for the application that is being built based on the CRM functionality.

**1.2 Scope**

The goal of this project is to understand and build on the AWS cloud and host applications on the cloud with the needed usability and settings required for best performance of a web application. This project is intended to understand the working and configuration of an application on the cloud.

**1.3 Definitions and Acronyms**

1. AWS – Amazon Web Services

2. JSP- Java server Pages

3. HTML – Hyper Text mark-up Language

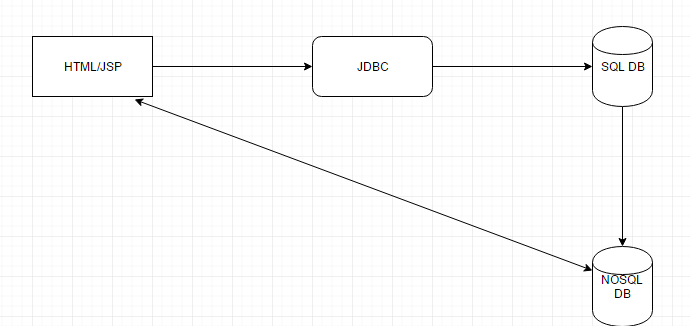
4. CRM- Customer relationship manager

5. SSH- Secure Shell

6. JDBC – Java Database connectivity

7. json – java script object notation

**Architecture Diagram**

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**Assignment 4**

1. Count of Sales users and total users are under Home Dashboard
2. Contacts is under Live on Additional Pages
3. Created Opportunity Form Page
4. Created Accounts Form Page
5. Created Products Form Page
6. Created Contact Form Page
7. Created Lead Form Page
8. Created Users Form Page

IAM Alias

[**https://neu-csye6225-spring2017-team-2.signin.aws.amazon.com/console**](https://neu-csye6225-spring2017-team-2.signin.aws.amazon.com/console)

**Shell Script**

**Create Instance**

aws ec2 run-instances --image-id ami-5ac2cd4d --count 1 --instance-type t2.micro --subnet-id subnet-db46c9e7 --associate-public-ip-address --enable-api-termination

**Root Volume and Type**

aws ec2 run-instances --image-id ami-5ac2cd4d --block-device-mappings '[{"DeviceName":"/dev/sdb","Ebs":{"VolumeSize":10,"DeleteOnTermination":true,"VolumeType":"standard"}}]'

**Assignment 5**

1. Created Opportunity View Page
2. Created Accounts View Page
3. Created Products View Page
4. Created Contact View Page
5. Created Lead View Page
6. Created Users View Page
7. Created Login Page

**Database Queries**

**Query 1:**

CREATE TABLE `contact` (

`contactId` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`ContactFirstName` varchar(45) DEFAULT NULL,

`ContactLastName` varchar(45) DEFAULT NULL,

`AccountID` int(11) DEFAULT NULL,

`Account Name` varchar(45) DEFAULT NULL,

`EmailID` varchar(100) DEFAULT NULL,

`Status` varchar(45) DEFAULT NULL,

PRIMARY KEY (`contactId`),

UNIQUE KEY `contactId\_UNIQUE` (`contactId`)

) ENGINE=InnoDB AUTO\_INCREMENT=10012 DEFAULT CHARSET=utf8;

**Query 2:**

CREATE TABLE `account` (

`AccountID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`AccountName` varchar(45) DEFAULT NULL,

`AccountDescription` varchar(100) DEFAULT NULL,

PRIMARY KEY (`AccountID`),

UNIQUE KEY `AccountID\_UNIQUE` (`AccountID`)

) ENGINE=InnoDB AUTO\_INCREMENT=1011 DEFAULT CHARSET=utf8;

**Query 3:**

CREATE TABLE `product` (

`ProductId` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`ProductName` varchar(45) NOT NULL,

`Description` longtext,

`Cost` int(11) DEFAULT NULL,

PRIMARY KEY (`ProductId`),

UNIQUE KEY `ProductId\_UNIQUE` (`ProductId`)

**Query 4:**

CREATE TABLE `opportunities` (

`OpportinityID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`OpportunityName` varchar(45) DEFAULT NULL,

`AccountID` int(10) unsigned DEFAULT NULL,

`LeadID` int(11) unsigned DEFAULT NULL,

PRIMARY KEY (`OpportinityID`),

UNIQUE KEY `OpportinityID\_UNIQUE` (`OpportinityID`),

KEY `leadidfk\_idx` (`LeadID`),

KEY `acctidfk\_idx` (`AccountID`),

CONSTRAINT `acctidfk` FOREIGN KEY (`AccountID`) REFERENCES `account` (`AccountID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `leadidfk` FOREIGN KEY (`LeadID`) REFERENCES `leads` (`LeadID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=10004 DEFAULT CHARSET=utf8;

**Query 5:**

CREATE TABLE `leads` (

`LeadID` int(11) unsigned NOT NULL AUTO\_INCREMENT,

`LeadFirstName` varchar(45) NOT NULL,

`LeadLastName` varchar(45) NOT NULL,

`AccountID` int(10) unsigned DEFAULT NULL,

`ProductID` int(10) unsigned DEFAULT NULL,

`Status` varchar(45) DEFAULT NULL,

`Phonenumber` varchar(20) DEFAULT NULL,

`Lead\_opportunity` varchar(45) NOT NULL,

PRIMARY KEY (`LeadID`),

UNIQUE KEY `idLeads\_UNIQUE` (`LeadID`),

KEY `acctidfk\_idx` (`AccountID`),

KEY `prodidfk\_idx` (`ProductID`)

) ENGINE=InnoDB AUTO\_INCREMENT=10011 DEFAULT CHARSET=utf8;

**Tables**

**Account**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| AccountID | int(10) unsigned | NO | PRI |  | auto\_increment |
| AccountName | varchar(45) | YES |  |  |  |
| AccountDescription | varchar(100) | YES |  |  |  |

**Contact**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| contactId | int(10) unsigned | NO | PRI |  | auto\_increment |
| ContactFirstName | varchar(45) | YES |  |  |  |
| ContactLastName | varchar(45) | YES |  |  |  |
| AccountID | int(11) | YES |  |  |  |
| EmailID | int(11) | YES | UNI |  |  |
| Status | varchar(45) | YES |  |  |  |

**Lead**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| LeadID | int(11) unsigned | NO | PRI |  | auto\_increment |
| LeadFirstName | varchar(45) | NO |  |  |  |
| LeadLastName | varchar(45) | NO |  |  |  |
| AccountName | varchar(45) | YES |  |  |  |
| Product | varchar(45) | YES |  |  |  |
| Status | varchar(45) | YES |  |  |  |
| Phonenumber | varchar(20) | YES |  |  |  |
| Lead\_opportunity | varchar(45) | NO |  |  |  |

**Product**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ProductId | int(10) unsigned | NO | PRI |  | auto\_increment |
| ProductName | varchar(45) | NO |  |  |  |
| Description | blob | YES |  |  |  |
| Cost | int(11) | YES |  |  |  |

**Users**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UserId | int(10) unsigned | NO | PRI |  | auto\_increment |
| FirstName | varchar(45) | NO |  |  |  |
| LastName | varchar(45) | NO |  |  |  |
| Roll | varchar(45) | NO |  |  |  |
| PhoneNo | varchar(45) | YES |  |  |  |
| Street | varchar(45) | YES |  |  |  |
| City | varchar(45) | YES |  |  |  |
| State | varchar(45) | YES |  |  |  |
| zip | int(11) | YES |  |  |  |
| Region | varchar(45) | YES |  |  |  |