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**Project**

**Institute Management System**

28-March-2019

**──────**

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**SCHOOL OF COMPUTER AND INFORMATION SCIENCES**

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY MAIDAN GARHI, NEW DELHI – 110 068**



**Declaration by the Candidate**

I hereby declare that the project entitled “Institute Management System” which is being submitted in Bachelor of Computer Application to Indira Gandhi National Open University (Saket- Delhi) is an authentic record of our genuine work done under the guidance of  Shashi Kant, System Administrator in Aravali Public School Address, 219 Sanjay Colony, Bhagpat Road, Meerut

I further declare that the material obtained from other sources has been duly acknowledged in the thesis.

**Place:**Gurugram (INDIA) **NILESH KUMAR**

**Date:**28 March 2019

# Introduction

The Institute management System provides a set of tools - a roadmap if you will, that enables school administrators to smoothly run the institution and do so in a way that demonstrates efficiency, cost-savings and ingenuity.

It enables Institutes with excellent ways to systematically manage Institute in multiple locations. It is a simple and powerful solution that connects all member with a single integrated platform. The Institute Management System helps in organizing various aspects of the Institute system, including student, staff, admission, examination, fees, reporting and so on. The system helps administrators to access, manage, and analyse data and processes for quick and well-informed decision-making.

The Institute Management System is a web application which features a centralized data storage structure which helps administrators, students and teachers to access data from anywhere and anytime on Android devices. The Institute Management System makes the work and functioning of Institute process extremely easy to save time and cut down the administrative costs and focus on improving student success. By using online   
Institute management software, you will focus on improving the quality of education, reach desired academic goals within specific time and cost parameters. The final outcome is that all the constituents-students, teachers, staff, and administrators comes out a winner - which just may be a Institute management's best benefit of all.

The “Institute Management System” has been developed to override the problems prevailing in practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the Institute to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It is also provides error message while entering invalid data. No formal knowledge is needed for the users to use this system, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources

Our project is based on the above concept i.e. automation of Administration and Management of Institute. The project has been developed keeping in-view the following aspects:-

## Working Environment of the Institute

|  |  |
| --- | --- |
| **Function of Admin** | |
| Staff Management | View Teacher List  Search Teacher by Name or Id  Add New Teacher  Update Teacher Detail  Create username & Password |
| Student Management | View Student List  Search Student by Name or Id  Take Student Admission  Update Student Detail  Create username & Password |
| Fee Management | Change Course Fee  View Student Fee Report |
| Attendance Management | View Attendance |
| Batch Management | View Running Batch  Add Course in a Batch |
| Course Management | View Course Detail  Add New Course |

|  |  |
| --- | --- |
| **Function of Teacher** | |
| Staff Management | View Teacher List |
| Student Management | View Student List  Student Detail |
| Fee Management | View Student Fee Report  Take Student Fee |
| Attendance Management | View Attendance  Take Today's Attendance |
| Batch Management | View Running Batch |
| Course Management | View Course Detail |

|  |  |
| --- | --- |
| **Function of Student** | |
| Course Management | View Course Detail |
| Attendance Management | View Attendance |
| Fee Management | Fee Detail |
| Exam | Rules Of Examination  Give Exam  View Exam Report |

# OBJECTIVES

The main objective of the project Institute Management System is to manage the details of Institutes, Students Batches, Teachers, and Courses. It manages all the information about Institutes, Registration, and Courses. The project is totally built at administrative end and thus only administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Institutes, Students, Registrations, and Batches. It tracks all the details about the Batches, teachers, and courses. Every organization, whether big or small has challenge to overcome and managing the information of Students, Institutes, Teachers, Registration, Courses. Every Institute Management System has different Institute’s needs; therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you to ensure that your organization is equipped with right level of information and details for your future goals.

Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These Systems will ultimately allow you to better manage resource. The main objective is to bring all the school work on one platform now a day’s web is growing day by day. People are aware of web .it is easily accessible by many user so that i decided to design a site where user or Institute can manage daily tasks as said above.

# Tools/Environment Used

Tools are being used NetBeans and MySQL.

Environment

Browser Google Chrome, Internet Explorer, Firefox, Safari etc.

# Analysis Document

## Software Requirement Specification (Synopsis)

## ER Diagram

## Data Flow Diagram

## Data Dictionary

All MySql Commands for Creating Table and Keys

Database Name Root

Database Password nilesh

CREATE TABLE useraccount (

`UserName` VARCHAR(10) NOT NULL,

password VARCHAR(8) NOT NULL,

`ID` INT NOT NULL,

usertype VARCHAR(10) NOT NULL,

`name` VARCHAR(25) NOT NULL,

dob DATE NOT NULL,

PRIMARY KEY (`UserName`));

CREATE TABLE student (

`Id` int UNSIGNED NOT NULL AUTO\_INCREMENT,

`StudentName` VARCHAR(25) not null,

`FatherName` VARCHAR(25) not null,

`DOB` date not null,

`Gender` VARCHAR(7) NOT NULL,

`MobileNo` varchar(12) NOT NULL,

`EmailID` VARCHAR(30),

`DateOfAdmission` DATE NOT NULL,

`Adress` VARCHAR(50) NOT NULL,

`District` VARCHAR(20) NOT NULL,

`states` VARCHAR(20) NOT NULL,

`Pincode` VARCHAR(7) NOT NULL,

`Country` varchar(15) not null,

`Batch` TIME(6),

PRIMARY KEY (`Id`));

Creating auto increment from 1001 by 1

ALTER TABLE student AUTO\_INCREMENT=1000;

CREATE TABLE teacher (

`Id` int UNSIGNED NOT NULL AUTO\_INCREMENT,

`TeacherName` VARCHAR(25) not null,

`FatherName` VARCHAR(25) not null,

`DOB` date not null,

`Gender` VARCHAR(7) NOT NULL,

`MobileNo` varchar(12) NOT NULL,

`EmailID` VARCHAR(30),

`DateOfJoining` DATE NOT NULL,

`Adress` VARCHAR(50) NOT NULL,

`District` VARCHAR(20) NOT NULL,

`states` VARCHAR(20) NOT NULL,

`Pincode` VARCHAR(7) NOT NULL,

`Country` varchar(15) not null,

PRIMARY KEY (`Id`));

Creating auto increment from 101 by 1

ALTER TABLE teacher AUTO\_INCREMENT=100;

create table course(

`CourseId` varchar(10) not null,

`CourseName` varchar(40) not null,

`Duration` varchar(10) not null,

`Fee` int not null,

PRIMARY KEY (`CourseId`));

create table batch(

`BatchId` varchar(10) not null,

`BatchTime` time not null,

`TeacherId` int UNSIGNED not null,

`CourseId` varchar(10) not null,

foreign key(`TeacherId`) References teacher(`Id`),

foreign key(`CourseId`) References course(`CourseId`),

primary key (BatchId));

create table PaidFee(

`StdId` int unsigned not null,

`Amount` int,

`Date` date,

`TeacherId` int unsigned not null,

foreign key(`StdId`) references student(`Id`),

foreign key(`TeacherId`) references teacher(`Id`));

create table Attendance(

`StdId` int unsigned not null,

`Date` date,

`Status` varchar(2) not null,

`TeacherId` int unsigned not null,

foreign key(`StdId`) references student(`Id`),

foreign key(`TeacherId`) references teacher(`Id`));

create table Pending\_Fee(

`StdId` int unsigned not null,

`Course` varchar(20),

`Amount` varchar(4),

`Batch` varchar(20),

`Date` date);

# Design Document

## Modularization details

## Data Integrity & Constraints Keys

Used Primary Key, Foreign Key, Unique Key

[Paste here](report%201.docx) this image

## User interface design

Institute Management System

LOGO

**Copyright © 2018 IMS Created by Nilesh Kumar**

Home

Login

About

# Program code (Comments & Description)

The project has been divided into 4 Sections as follow:-

1. Admin Account
2. Teacher Account
3. Student Account
4. Login Section

|  |  |
| --- | --- |
| **Admin Account** | |
| Staff Management | View Teacher List  Search Teacher by Name or Id  Add New Teacher  Update Teacher Detail  Create username & Password |
| Student Management | View Student List  Search Student by Name or Id  Take Student Admission  Update Student Detail  Create username & Password |
| Fee Management | Change Course Fee  View Student Fee Report |
| Attendance Management | View Attendance |
| Batch Management | View Running Batch  Add Course in a Batch |
| Course Management | View Course Detail  Add New Course |