**PROJECT**

**SYNOPSIS**

**OF**

**Management Information System**

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Management Information System

ABSTRACT :

Management Information System provides information for the managerial activities in an organization. The main purpose of this project is to provide an accurate and timely information necessary to facilitate the decision-making process and enable the organization’s planning, control and operational functions to be carried out effectively.

Management Information System is basically concerned with processing data into information and is then communicated to the various departments in an organization for proper decision-making.

**INTRODUCTION**

The objectives of the system are-

* Provide information for planning, organizing and controlling purposes.
* To store and manage data efficiently from all the functional areas.
* Reduce the risk and uncertainties in the managerial decision-making.
* Smooth up the flow of data through various levels of organization.

**SCOPE**

This project has a large scope as it has the following features which help in making it easy to use, understand and modify it:

* Management of the data related to organizations.
* Efficient management of human resource with clear tracking of the the management hierarchy and distribution of the talent across the different paradigm of organisation.
* A process for enabling a system to manage the leaves of the employees for the proper allocation of the resources.
* Basic employee payroll system to give a basic overview to admin about the payroll of the employees

**TOOLS AND TECHNOLOGY USED**

**Tool**:

* **Git**:- Git is a version control system that is used for software development and other version control tasks. As a distributed revision control system it is aimed at speed, data integrity, and support for distributed, non-linear workflows.
* **Tortoise Git**:- Tortoise Git is a client for Git.
* **Sbt :** sbt is an open source build tool for Scala and Java projects, similar to Java's Maven or Ant.
  + Its main features are:
  + native support for compiling Scala code and integrating with many Scala test frameworks
  + build descriptions written in Scala using a DSL
  + dependency management using Ivy (which supports Maven-format repositories)
  + continuous compilation, testing, and deployment
* **IntelliJ idea :** An Integrated Development Environment for jvm based languages and frameworks.

**Technology:**

* **HTML**: - It is used for giving eye catching look to the website. And also providing easy to use GUI.
* **CSS**: - CSS is cascading style sheet which is used to give designer look to HTML using the external file.
* **Java script**: - Java script is used for client side scripting which can help in using validation on the website and many more other functions.
* **Postgresql :**PostgreSQL, often simply Postgres, is an object-relational database (ORDBMS) – i.e. an RDBMS, with additional (optional use) "object" features – with an emphasis on extensibility and standards compliance.
* **Scala :** Scala is a general-purpose programming language providing support for functional programming and a strong static type system. Designed to be concise, many of Scala's design decisions were designed to build from criticisms of Java.
* **Scala.js :** Scala.js is a Scala compiler that compiles to JavaScript, making it possible to write Scala programs that can run in web browsers
* **ScalaCSS** : Super type-safe CSS for Scala and Scala.JS.
* **Scalajs-react** : Lifts Facebook's React library into Scala.js and endeavours to make it as type-safe and Scala-friendly as possible.

**TIME FRAME REQUIRED FOR VARIOUS STAGES OF PROJECT IMPLEMENTATION**

|  |  |  |
| --- | --- | --- |
| Sr. No. | PHASES | TIME DURATION |
| 1. | Software Requirement Specification | 2 weeks |
| 2. | System Design | 3 weeks |
| 3. | Coding | 4 weeks |
| 4. | Implementation | 5 weeks |
| 5. | Testing | 1 week |

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