PROJECT SYNOPSIS

Project Title	:
Project description	: This project will be divided into separate components comprising of
	each department necessary for an organization.
	Informational Website – This web portal will be the medium through
	which the organization can provide the information about the products to
	the customers on the internet. There will be several divisions of the
	products and the customer will be able to surf efficiently through the
	website and choose their desired product and can inquire about the
	same. Authorized personnel will then receive the inquiry about the
	product and will contact the customer regarding the product.
	Centralized Modules - These allow employees to manage grouped tasks
	without switching applications or screens. All information needed for a
	certain operation should be housed in the same part of the system.
	ERP Database - ERP systems rely on a central database from which all
	applications retrieve information. This provides all users with a single
	source of truth, ensuring all departments and teams work with the same
	set of information. There is also a provision of backing up the database
	into the host system or via the email to prevent data-loss.
	ERP Administrator – An Admin will have the authority to give the priority
	and access to the other employees of various departments within an
	organization. Alongside, admin will have all rights to the system.
	Business Integration in ERP – Employees should be able to go from one
	part of the system to another without feeling completely lost or like it's a
	different application. This also means the applications should freely share
	information with one another in real time. ERPs work to eliminate
	redundancies in this system and provide up-to-the-minute information.
	Manufacturing – This module will help in managing the product
	development and its production. The requested product after getting
	approved for production will be manufactured under this department. To
	begin with, Manufacturing department will check for the raw materials of
	the product with the Inventory department. Then, if the material is
	available it will be brought to Manufacturing department for the
	production. If the material is not available in the Inventory, the request for the raw material will be sent to the Vendors. Thus, a product will be
	manufactured under the Manufacturing department.
	Accounting - Accounting tools support accounts receivable, accounts
	payable and general ledger functions to manage the organization's
	finances. Accounting department supports additional functions such as
	payroll, petty cash and time tracking.

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	Human Resources – This module covers all HR functions an employee goes through during their time with the company. One especially important function is applicant tracking. It enables the HR staff to search for the best candidates according to the criteria an organization sets. HR deals with functions such as training, payroll and performance management. Customer Relationship Management - A CRM as part of this system
	provides complete customer data in one place. It allows for quick user access when customer data is needed for shipping, billing or marketing purposes.
	Inventory Management - Inventory management solutions give users more control and visibility over stock. Inventory department exchanges data with manufacturing, sales and customer records. This gives greater visibility of the supply chain and helps employees predict issues, such as late delivery due to low inventory levels, with greater accuracy.
	Sales – Sales department will deal with sales and returns of the products manufactured by the organization. Also, it will manage the Service Level Agreements set by an organization.
Project Goal	: Designing a centralized management system dedicated to an organization for handling various departments such as Sales, Production, Vendor, HR, Inventory, Account and Purchase. Also, a website for the customer side in order to provide ease for checking the available products and inquiring about them.
Objectives	: The principle behind this web application is to streamline and improve the business operations of an organization by implementing the Enterprise Resource Planning System. It will help in eliminating redundancy in the data management system and provide transparency to the organization. Increasing the flexibility of operations and improving productivity. The website will act as an interface to the customer by showcasing different range of products produced and sold by the organization and
Functional Requirements	provide an option for inquiring about the same. - System should contain numerous forms and as per the category of the user, admin can provide the rights to the user giving access to number of forms which are concerned to that user.
	 - Admin should possess the entire right to system. - Every user according to their category should login and only access to the data which has been allowed by the admin.

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	 Various forms concerning to all the departments like vendor, sales, HR, etc should be available in the system. All the data from scratch should be clearly visible from the system, including raw material, costing, manufacturing, sales, and customer inquiry handling. There should be a dashboard, which would give an clear overview
	according to the relevant data for the logged in user.
Non Functional	: -The portal should load in less time.
Requirement	It should be compatible with all the browsers.Shifting the system to other server having whatsoever environment
	(OS/Hardware) should not cause any conflicts.
	- Login password should be strong enough to make it more secure.
	- Numerous users can access the system without any system failure.
Hardware specification	: Hard Drive: Minimum 20 GB Dual core processor Processor: Recommended 2GHz or more. Memory (RAM): Minimum 4 GB
Software specification	: Web Browser : Microsoft Internet Explorer, Google Chrome, Mozilla. XAMPP/WAMP server Microsoft visual code studio/ Sublime Text Editor Frontend technology: HTML,CSS,Bootstrap,Javascript Backend platform: PHP (MVC Architecture), MySQL/MS Access, Laravel (Framework).
Learning Outcome	: To gain an understanding of designing a feature loaded website to provide the customers an insight into the products of an organization. To be able to map business processes using ERP concepts along with classifying different processes of the organization and relationship among all processes. To gain knowledge about designing a system that can manage various departments of an organization, also to understand the business architecture among an organization and manage the data-flow between different departments of an organization.
Team Size	: 3
Team Members (Name)	: Harsh N. Patel (16IT073) Rahul R. Brahmbhatt (16IT013) Rahul B. Tiwari (16IT139)
Division of responsibility	: Module-wise division is not yet done by the external guide, modules will be assigned on the basis of tasks accomplished during the following

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	weeks.
References	: https://www.sap.com/india/products/what-is-erp.html?infl=948240e1-
	6d62-470e-b84c-a0caabec9d01
	https://www.youtube.com/watch?v=IYCEQqSM08I
Limitation of Existing	: - The ERP system is managed manually in existing projects which
Projects	consumes a lot of employee's time.
	- Also, there is lack of co-ordination among the various departments of the organization resulting into less productivity and increased amount of time for production.
	- There are no arrangements for database backup which results into loss of data in case of system failure.
	- There is no proper search optimization technique to get required data
	among huge amount of data available in the system.
Innovativeness in Project	: - The loyal customers of the organization will be efficiently managed by the Customer Relationship Management department of the organization on providing lucrative discounts and gifts to the customers on their special events such as birthdays and anniversaries. -Automatic generation of barcode and invoice on successful
	manufacturing and selling of product with an option to print the same.
	-Different tasks can be distinguished on the basis of priority assigned to that particular task and category by using different colours for the notification panel in the dashboard of the application.

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Project ID: PRJ/2020/IT/ Date of Approval:

Sign and approved by Dr. Parth Shah (Head of the Department) CSPIT, IT