

E-PROJECT MANAGEMENT TOOLS

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ABSTRACT

Using automatic program tools is vital for efficient preparing and handling of work. Many automatic software devices have been created in the sector. The research on how to pick the proper project administration apps tools is extremely inadequate. This newspaper supplies a relation of one set of portray administration programs items (PMST). In this investigation, first, we constructed guidelines to decide and this PMSTs will be bound to our assessment. Then, we created requirements to contrasts and assess these PMSTs. at last we existing our outcomes in a a tabular shape format. Our the results will help convey leaders to assess the benefits and deficiencies of these tools.

Keywords— Project Management, Project Management Software Tools, PMST.

INTRODUCTION

The quantity of tools for automated project management accessible on the market is growing quickly. Along with considerable advancement of these instruments, numerous project managers have begun utilizing a variety of project management instruments to oversee and assist their project- related operations. These The primary uses of tools are in planning, monitoring, and managing initiatives. The functions that these tools offer differ. The project managers need to select a suitable collection of implements with

essential characteristics among the numerous tools located in the marketplace. Capers Jones [18] claims that in complex software projects, effective management of projects makes extensive use of tools for automated project planning. Thus, it turns into crucial for project managers or owners to select the best tool or combination of tools for their job requirements for management. We examined a number of project management software tools (PMST) in our investigation. Next, we used a set of criteria to compare these tools. Together with the standards we developed, we made use of the standards given in [12]. Finally, we provide a tabular representation of our results. Our objective in this research aims to assist managers of projects in selecting project management software instruments.

"Software project management"—what is it? What distinguishes it from general management? Does project management for software vary from other forms of project management? We must examine a few fundamental concepts related to software project planning, monitoring, and control in order to provide answers to these queries. It will become clear that the main focus of projects is achieving goals. We will look at how to identify those interested in an undertaking and their goals because software projects are only valuable if they meet actual needs. An effective project begins with identifying its goals and making sure they are achieved. But before that can happen, precise information is needed, and we'll look at how to get it.

The e-Project Management tool is related to the organization for maintaining the projects undertaking administration aptitudes assumes a noteworthy part in each business and regularly the result of a venture is profoundly influenced by the underlying arranging and checking phases of a task. With almost any project there will be documents that all concerned parties need to access. This e-project management tool makes document sharing easy. You can put all the communal documents in one place and organize them according to a structure that makes sense for you. And user can easily view, edit or print the document. In e- project management tool user can access the document accordance to the project. And with a restriction in both reading and writing the document. The check-out system means that only one person can edit a document until it is checked back in. Using an e-Project Management tool, it reduces work load for user and administrator. Both admin and user can check the project documents anytime from any computers connected to the Internet. Office personals spend less time on to search, to review and to modify the documents. This tool reduces the paper work and it reduces the employee's times. Employee can utilize this time for other work. The main objective of the e-Project Management tool is intended to Manage Project Quality Documents & Process flow. This tool will manage the project related general document as well. The tool must be automated process operated through website. e-Project administration instruments that empower colleagues to complete ventures, rapidly discover data they require or more all ready to impart and cooperate to accomplish regular business objectives. The e-Project Management tool has a stand-alone Review Module that can manage review & approval process along with metrics recording. Tool will enable & control the access to Project information to the team members & all associated stakeholders across sap labs sites. The motivation for doing this project was primarily

the MITC needs a tool which helps for maintaining all the projects in a company. This tool contains all the projects which are going in different departments.

LITERATURE SURVEY

EXISTING SYSTEM

The current system was thoroughly examined to identify its limitations and flaws. An in-depth analysis was conducted to uncover the challenges faced by users. Additionally, the study aimed to determine any further support required from the existing system.

The main drawbacks of the system are:

- Large amount of data
- Searching is difficult.
- Time consumption
- Delay in updating and review
- Inefficient approach
- Lack of accuracy
- Lack of user friendliness

PROPOSED SYSYTEM

The proposed framework is designed to eliminate the significant drawbacks of the existing system. It offers users maximum flexibility for data manipulation, ensures data security, and efficiently handles large volumes of data. Developed with .NET as the front end and SQL Server as the back end, this new framework addresses the inconveniences present in the current system..Can be gotten to from a PC without introducing programming on client's PC.

- Ease of access-control.
- Provide easy to use condition.
- Reliability
- Searching document is very easy. Just you need to know the project ID.

FEASIBILITY STUDY

Contingent upon the consequences of the underlying examination the overview is presently extended to a more definite achievability contemplate is a trial of framework proposition as per its workability, effect of the association, capacity to address issues and viable utilization of the assets. It centers around these real issues.

Technical feasibility

The technical feasibility of the proposed framework has been analyzed, and the following aspects have been recommended. This evaluation determines whether the necessary technology for the proposed framework is available. It focuses on identifying hardware and software that will effectively meet the client's requirements.

TOOLS AND TECHNOLOGIES USED

As per the requirements provided by the organization it needs to maintain the details of all the projects through online. The proposed framework is composed with a specific end goal to take out every one of the weaknesses of existing framework. It provides maximum flexibility for the user to manipulate data This framework gives online capacity/refreshing and recovery office. This framework guarantees less or no printed material and furthermore gives assistance to clients and overseer.

Introduction to ASP.NET

ASP.NET is a programming system based on the normal dialect runtime that can be utilized on a server to assemble capable Web applications. ASP.NET offers a few imperative focal points over past Web advancement show.

Enhanced Performance:

ASP.NET is ordered normal dialect runtime code running on the server. Dissimilar to its deciphered ancestors, ASP.NET can exploit early authoritative, in the nick of time gathering, local advancement, and storing administrations appropriate out of the case. This adds up to

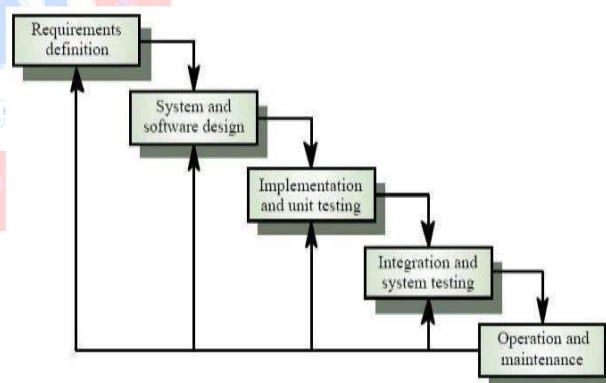
drastically better execution before you ever compose a line of code.

World-Class Tool Support:

A rich tool stash and originator in the Visual Studio incorporated improvement condition supplement the ASP.NET structure WYSIWYG altering, intuitive server controls, and programmed arrangement are only a couple of the highlights this effective apparatus gives.

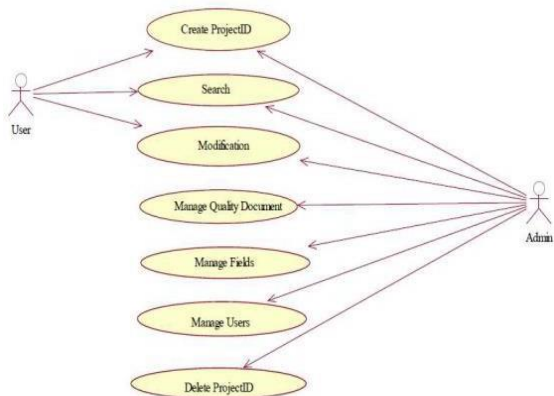
Methodology

The philosophy which is utilized as a part of building up the e-Project Management Tool is the Waterfall Model. Waterfall improvement finishes the venture wide work-results of each teach in a solitary advance before proceeding onward to the following order in the subsequent stage. Business esteem is conveyed at the same time, and just at the very end of the venture.



Apply case

The operational needs of systems and system-of-systems are captured by the diagram collection of scenarios. User cases and actors are employed by the use case model. Actors engage with the system by taking on various roles as entities that are external to it. Use cases describe a particular, yet comprehensive, flow of operations that exemplify what is contained within the system. Each use case offers one or more scenarios that show how users, also known as actors, ought to interact with the system in order to accomplish a specific goal or function.



DATABASE DESIGN

The yield from the utilitarian determination stage fills in as a involvement to the Database configuration process in the advancement lifecycle. In this procedure, the elements connections are recognized and standardized to take into account rules for the application being manufactured. Things like execution issues, engineering imperatives, framework impediments and so on., are dissected and fitting activities performed. All the tables are constructed after analyzing the different entities and attributes required for the construction of this application .

COLLABARATION DIAGRAMS

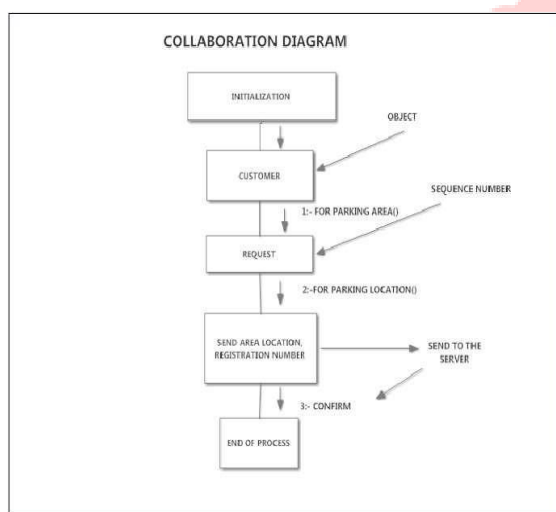
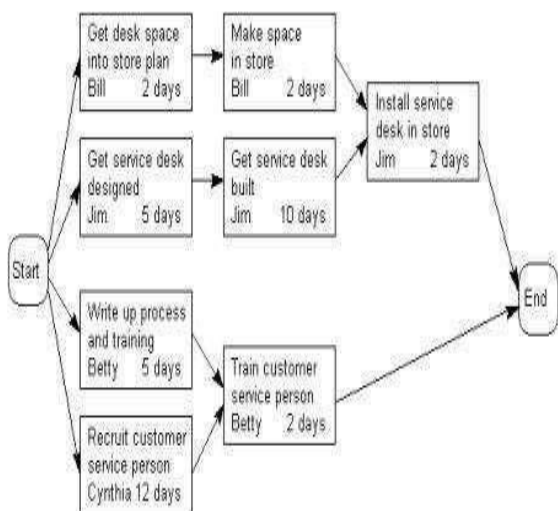


Fig. Collaboration Diagram

Standardization

Simplifying the relationship between many of the data parts in a record is the process of standardization. It is the conversion of a system of smaller, more stable information structures into a complex information store. Standardized information structures require less effort and are easier to maintain. They are also more stable. In this sense, standardization can be defined as the process of simplifying the relationship between the various information components inside a record.

ACTIVITY DESIGN



TABLES

Table Name: ApproveStatus

Column name	Data type	Constraints
approveStatusID	int	Primary key
approveStatusName	nvarchar(50)	Not Null

Table Name: DocumentType

Column name	Data type	Constraints
DocTypeID	int	Primary key
DocType	nvarchar(50)	Not Null

Table Name: DocumentType

Column name	Data type	Constraints
DocTypeID	int	Primary key
DocType	nvarchar(50)	Not Null

Table Name: DocumentVersions

Column name	Data type	Constraints
ID	int	Primary key

DocID	int	Not Null
Version	int	Not Null
Reviewer	nvarchar(50)	Not Null

Table Name: Gatelevels

Column name	Data type	Constraints
GateLevelID	int	Primary key
GateLevel	int	Not Null

Table Name: ProcessType

Column name	Data type	Constraints
ProcessID	int	Primary key
ProcessName	nvarchar(50)	Not Null

Table Name: Gatelevels

Column name	Data type	Constraints
GateLevelID	int	Primary key
GateLevel	int	Not Null

Table Name: ProcessType

Column name	Data type	Constraints
ProcessID	int	Primary key
ProcessName	nvarchar(50)	Not Null

Table Name: Project_QualityDocumentsList

Column name	Data type	Constraints
ProjectID	nvarchar(50)	Not Null
QualityDocID	int	Not Null

RESULTS

Experts in project management have validated and agreed on the following patterns based on their expertise and practice:

1. Globalization and Industry 4.0, Digital Transformation, and hyper-competition have altered the majority of project contexts require a global perspective. Projects don't exist in a vacuum. Projects are now an effective engine in the creation of business strategy, lifting an organization in terms of its competitiveness in the global economy.
2. Top-performing businesses acknowledge Project management emerged from the solving technical difficulties to facilitate change and transformation within an organization. Organizations are unable to tackle handling projects with the technique used in previous decades. Initiatives are the new normal, thus project management cannot no longer be it is not just about managing projects or systems, but also about executing strategies efficiently and effectively.
3. To ensure successful project execution, project teams must establish a network of building blocks. Develop more agile and responsive techniques to obtaining successful project outcomes. Senior Leadership teams should seek to bridge and close gaps between their plans for strategy and execution. Traditional organizational structures provide a lack of freedom for project teams. Make crucial strategic decisions. Despite promises for flexibility within organizations, project teams stifling levels of bureaucracy, making empowerment, focus, and agility nearly an impossibility.

CONCLUSION

This tool is mainly developed for the purpose of maintaining the projects in MITC. From this tool it is easy to Manage Project Quality Documents & Process flow. The distinctive modules of the task are sufficiently finished to oversee and handle the general procedure of Manages complex ventures

with MITC clients, accomplices and colleagues. The framework is being composed as like it was chosen in the plan stage. This tool will have a stand-alone Review Module that can manage review & approval processes. Admin have special privileges. He uses to manage quality documents, manage user roles, manage field list and delete project ID. This tool enables & controls the access to Project information to the team members & all associated stakeholders across the Power of Personality: How Introverts and Moog sites. And it has a UI that enables users perform the required functions with no ambiguity. At present the task is in part executed and tried for the fractional culmination. Right now this task is still a work in progress and has not been facilitated on the dev. At the point when all the stage will be executed it will be sent on the dev and we beyond any doubt that the outcomes will be palatable.

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