“Government file record and management system”

A Minor Project Report submitted to the

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

in partial fulfillment of the requirements for the award of the degree of

B.TECH
IN
INFORMATION TECHNOLOGY

Submitted by

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Oriental Institute of Science & Technology, Bhopal

CERTIFICATE

This is to certify that the project entitled "Government file record and management system" being submitted by Harsh Dwivedi, Karan Gupta, Atharv garg . student of V Semester, B Tech in Information technology have done their work as MINOR PROJECT for Partial fulfillment of the B Tech degree from RGPV, Bhopal (M.P.) is a record of bona fide work carried out by them under our supervision.

Guide	Head
Department of	Department of
Information technology	Information technology

ACKNOWLEDGEMENT

First and foremost, I would like to thank our guide Prof. Swati who guided us in doing these projects. She provided us with valuable advice and helped us in difficult periods. Her motivation and help contributed tremendously to the successful completion of the project which is a software named as "**Government file record and management system**".

I owe sincere thanks to Director OIST, for providing me with moral support and necessary help during my project work in the Department. At the same time, I would like to thank HOD, IT and all other faculty members and all non-teaching staff of department of Information technology for their valuable cooperation.

Also I would like to thank my family and friends for their support. Without that support we couldn't have succeeded in completing this project. At last but not the least, we would like to thank everyone who helped and motivated us to work on this project.

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ABSTRACT

It has become appallingly obvious that our technology has exceeded our humanity.

The application will enable developer to plan their code. They could also check government files that is readily available in website .Thus, as compared to a present culture, which has been widely used by citizens, the use of a website would be definitely effective, convenient and beneficial for the citizens.

The main objective of the project is to create a website "**Government file record and management system**" that allows users to search any file/info in different departments. It helps ctizens in many ways like, they don't have to spend time in finding information by going to office and spend time on physically flling the form , instead they just need to search in **Government file record and management system** and they'll get their work done within few seconds. The advantage of this website is that you can get the desired information in a relevant manner.

Government file record and management system is a website where the users can search the information. It makes the process of finding information and such things for citizens who are not very familiar with the new rules.

This application is developed using front-end backend . The authentication page, home page, data sets, user controls are used to develop the website.

The report has achieved its main goal, to create a tool in order to help citizens from different poltical and educational background. The application has so much potential to be further developed in the future, with a team who have enough knowledge to implement all the features in order to get the application ready to use.

APPROVAL CERTIFICATE

This is to certify that the project entitled "**Government file record and management system**" being submitted by. **Harsh Dwivedi, Karan Gupta, Atharv garg . student of V Semester, B Tech in Information technology** has done there work as Minor Project for Partial fulfillment of the degree from RGPV, Bhopal (M.P.).

Date :

Prof. Swati

Signature

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INTRODUCTION

1.1 OVERVIEW:

As someone who visit government offices often, it is a challenge for them to find information easily and access that file. Problems can happen when someone need a file to a whole new department where there is different oficers and rules. This application come out to help citizens to get quick and better system , as well as better information with a particular department and reduce the chance that troubles happen along the citizens.

In present era, there is no such website which makes the process of finding the information and files easily and accurately.

Using the website makes such process very easy. The purpose of this project is to make a full functioning pages which has a collection of information and files and also can do their work done.

1.2 PROJECT OBJECTIVE

➢ Our project's main objective is to help users easily access files and information in different departments.

➢ The purpose of the website is to build an application program to reduce the process of searching files here and there.

➢ CodeLib must provide:

• Ability for users to search a particular information
• Various options of the required fields.
• Display of the information on website.
• Contact information
• Reviews of the department and the system

PROJECT SCOPE

➢ This is Website which provides unlimited files.

➢ By which user can view the details and files , in different department in a particular place.

➢ User can view details from anywhere through internet and can access the files.

1.3 ORGANIZATION OF REPORT

The following report consists of 10 chapters namely: Introduction, Background And Literature Survey, Process Model, Design, Technical Details, Screen Layouts, Future Enhancements and conclusion.

First, we explain the challenge, motive, approach and the objective and scope of our project. Then, we talk about its software requirement specification, utility and market opportunities and the proposed project model. After that we discuss the proposed process model, project plan and the timeline of our project which are followed by all the relevant diagrams. Then we specify some hardware and software requirements and post snippets of some code and talk about testing our prototype and sharing the screen layouts of our result. Finally, we discuss the future enhancements and concluded the report.

CHAPTER : 02
BACKGROUND AND LITERATURE SURVEY

2.1 SOFTWARE REQUIRMENT SPECIFICATION:

2.1.1 Functional Requirements:

The purpose of the application is to create a website for developers who go to offices often to meet the project deadlines. This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be-

Authentication:

User has to authenticate himself/herself by entering username and password which was given on the time of registration.

Select department: User has to select department in which he/she wants to do its work .

Search: User will search for the file by giving keywords of the . file Generation: After entering the keyword for the info/file, the system will provide the desired output as per the user's wish.

2.1.2 NON- FUNCTIONAL REQUIRMENTS Reliability The system shall be completely operational all the time . Genuine informations are only shown on the list for user satisfaction and better quality. Secure access to user's confidential data. Performance The website is able to support 100 concurrent users without any performance degradation. Its performance may vary according to the given inputs.

Manageability Requirement Better component design to get better performance at peak time . The system is developed in such a way that it can be easily reused , deployed and tested.

2.1.3 Performance Requirements:

In order to maintain an acceptable files at maximum number of uploads allowed from a particular user as any number of users can access to the website at any time. Also the connections to the servers will be based on the attributes of the user like his selected department/ work and server will be working 24X7 times.

2.1.4Interface Requirement:

Various interfaces for the product could be

1). Main interface

2). Search bar

3). There will be a screen displaying information about the department that user wants

4). If the customers chose a particular department then another screen will take you to thefiles and information of that particular department.

2.2 FEASIBILITY REPORT

Feasibility is an important phase in the website development process it enables the developer to have an assessment if the product being developed it refers to the feasibility study of the product in terms of outcomes of the product, operational required for implementing it .

2.21Innovativeness and usefulness

The application requires no special technical guidance and all the views available in the application are self-explanatory. The users are well guided with warning and failure messages for all the actions taken. That means product is economically feasible.The only cost involved is having a Device with the minimum requirements mentioned earlier. For the users to access the application, the only cost involved will be in getting access to the Internet.

▪ This product is operationally feasible too as it is designed specifically for EGovernance . This provides consistent and integrated data management . it also provides information at all levels .

▪ The application requires no special technical guidance and all the views available in the website are self-explanatory. The users are well guided with warning and failure messages for all the actions taken.

▪ The system has been added with the features of menu of departments which makes them the master as the person starts working through the environment . As the website that were used as developing this application are very economical and are readily available is the market the time that lost by customer is just visiting the site time.

2.2.2 Market Potential and Competitive advantages

For knowing the market potential we collect the primary resources and secondary resources with marketing research, after doing marketing research, we see our target market; our customer focus and our competitors in the market .and we see what are the strengths and weakness of our business idea.

Industry Analysis: Over the past several years, a new and powerful marketplace has emerged. This ever-changing frontier is known as the World Wide Web. Electronic commerce is increasingly becoming the preferred mechanism to transact business in India. The Internet enables online developers to boost their coding skills in many ways but here we are providing easier way to do that. Play store has so many apps which helps to find files but in this fast moving world where every thing have rigid deadlines we can't afford to learn rules from basic after that. So to overcome this we are here with our website to save citizens time in learning rules and searching in google, we are giving accurate information within few seconds.
Political and legal environment : In India political and legal environment is very supportive for entrepreneurship projects .the banks are providing a very low interest of loan on feasible entrepreneurship project.

ADVANTAGES :
1. Use of Internet as an information source for developers.
2. Citizens Convenience.
3. Less Investment & fewer workforces for starting the venture.
4. Target market.
5. Minimum physical assets & less overhead file storages .
6. Users don't have to find files manually.

PROPOSED PROJECT MODEL

Model View Controller Model (MVC)

Flux is the application architecture that Facebook uses for building client-side web applications. It complements React's composable view components by utilizing a unidirectional data flow. It's more

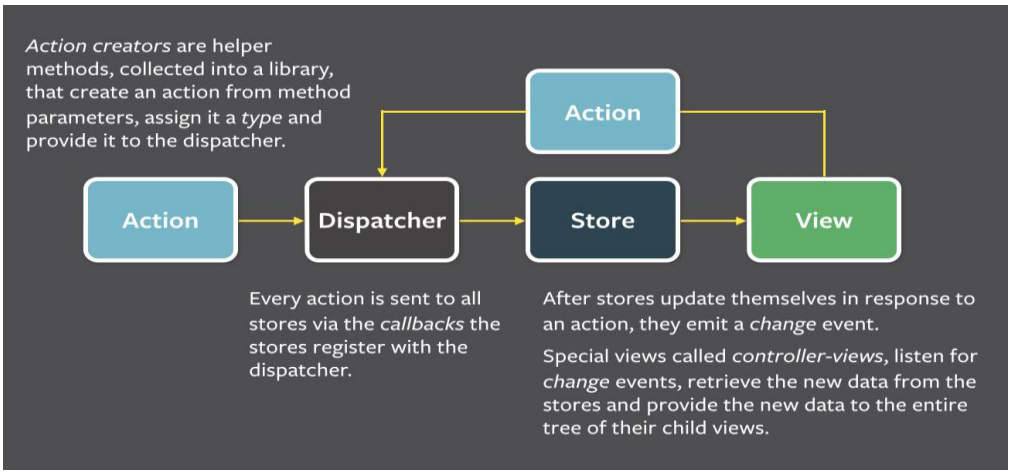
of a pattern rather than a formal framework, and you can start using Flux immediately without a lot of new file.

Advantages of MVC model:

Flux applications have three major parts: the dispatcher, the stores, and the views (React components). These should not be confused with Model-View-Controller. Controllers do exist in a Flux application, but they are controller-views — views often found at the top of the hierarchy that retrieve data from the stores and pass this data down to their children. Additionally, action creators — dispatcher helper methods — are used to support a semantic API that describes all changes that are possible in the application. It can be useful to think of them as a fourth part of the Flux update cycle.

Flux eschews MVC in favor of a unidirectional data flow. When a user interacts with a React view, the view propagates an action through a central dispatcher, to the various stores that hold the application's data and business logic, which updates all of the views that are affected. This works especially well with React's declarative programming style, which allows the store to send updates without specifying how to transition views between states.

We originally set out to deal correctly with derived data: for example, we wanted to show an unread count for message threads while another view showed a list of threads, with the unread ones highlighted. This was difficult to handle with MVC — marking a single thread as read would update the thread model, and then also need to update the unread count model. These dependencies and cascading updates often occur in a large MVC application, leading to a tangled weave of data file and unpredictable results.



CHAPTER:03

PROCESS MODEL

3.1 PROPOSED PROCESS MODEL

WATERFALL MODEL:-The waterfall model is a classical model used in system development life cycle to create a system with a linear and sequential approach. ... This model is divided into different phases and the output of one phase is used as the input of the next phase. The waterfall model is a sequential approach, where each fundamental activity of a process represented as a separate phase, arranged in linear order. In the waterfall model, you must plan and schedule all of the activities before starting working on them (plan-driven process). The layers of waterfall model are :

Requirement: During this phase, detailed requirements of the software system to be developed are gathered from client.

Design Stage: Plan the frame work and the languages that are user as well as the api's that are required.

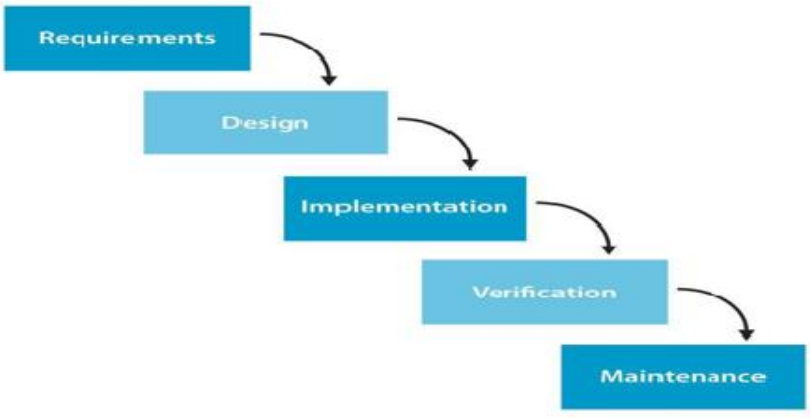
Built Stage: After design stage, it is built stage, that is nothing but coding the software

Test Stage: In this phase, you test the software to verify that it is built as per the specifications given by the client.

Maintenance stage : After design stage, it is built stage, that is nothing but coding the software

Advantages

- Before the next phase of development, each phase must be completed
- Suited for smaller projects where requirements are well defined
- They should perform quality assurance test (Verification and Validation) before completing each stage
- Elaborate documentation is done at every phase of the software's development cycle
- Any changes in software are made during the process of the development



3.2 PROJECT ESTIMATION AND SCHEDULING

GANT CHART :

Gantt charts are useful for planning and scheduling projects. They help you assess how long a project should take, determine the resources needed, and plan the order in which you'll complete tasks. They're also helpful for managing the dependencies between tasks.

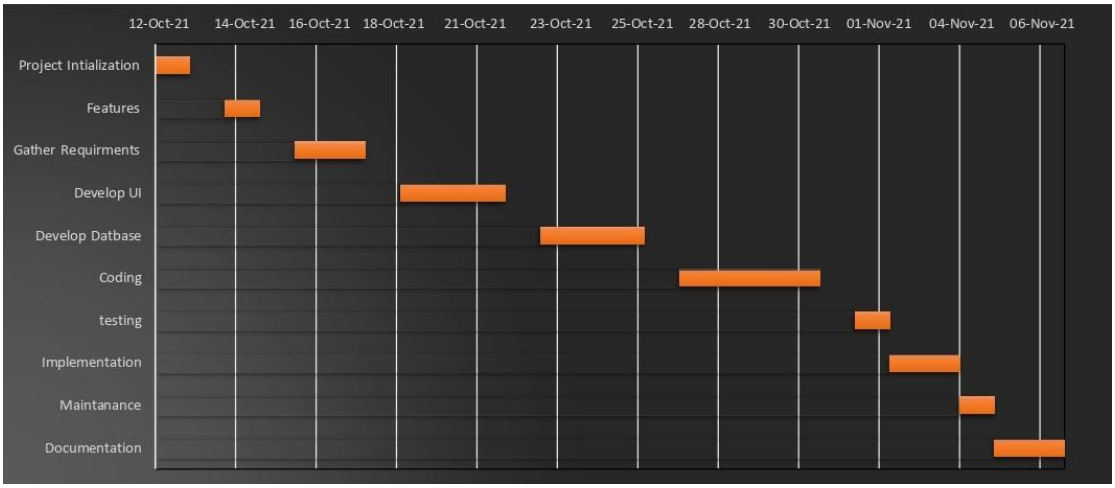


Figure 3.2

According to the above Gantt chart the production of the project completed in the following phase and timings.

Project Initialization : We initialized our project around august. We explore and elaborate the idea to identify if the project can realistically be completed and its goal achieved.

Features : We discusses and finalized the features we wanted in our website like Registration page, login , product accessibility and other like administrator functionalities .

Gather Requirements : It took us some days to gather all the required websites and the platform and download it to build our project.

Develop UI : The task to design UI was done in the span of three days I used HTML, CSS, JS.

Testing : To test our project we used white box testing in which we tested the proper flow of the website.

Implementation and Maintenance : We completed this phase of implementation and maintenance in three days after which our website was finally ready to get presented.

Documentation : This was the last task of our project which took two days .

CHAPTER: 04

DESIGN

1.1 USE CASE DIAGRAM

A use case diagram at its simplest is a presentation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved

.

Web Customer actor uses some web site to make purchases online. Top level use cases are **View Items, Make Purchase** and **Client Register**. View Items use case could be used by customer as top-level use case if customer only wants to find and see some products. This use case could also be used as a part of Make Purchase use case. Client Register use case allows customer to register on the web site

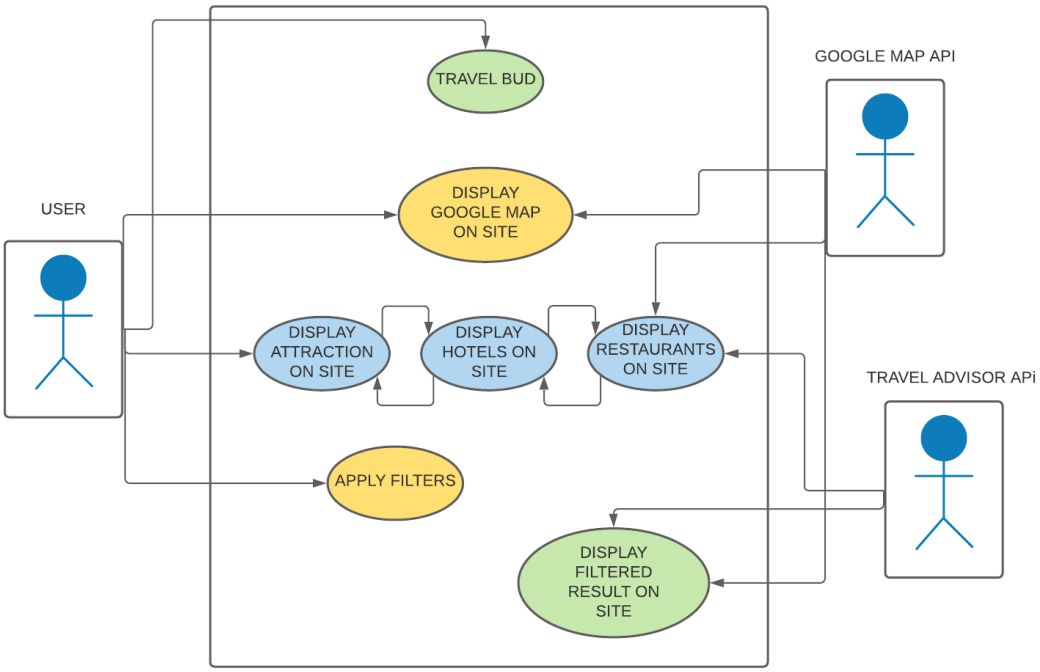


Figure 4.1

CHAPTER: 05

TECHNICAL DETAILS

5.1 SOFTWARE SPECIFICATION

1.**Operating System:**

Choosing an operating system (OS) is the first decision to be made. This technology has the most familiar terms for non-techies in this project we have used Microsoft Windows.

2. API's

Google maps API, Geolocation API, and Rapid API, Travel Advisor API, Weather API, Google maps React API

3. Databases

There is no requirement of database for this project.

4.Programming language

Programming languages use different syntax to command a computer to do whatever is desired. JavaScript is used in our project for programming purpose.

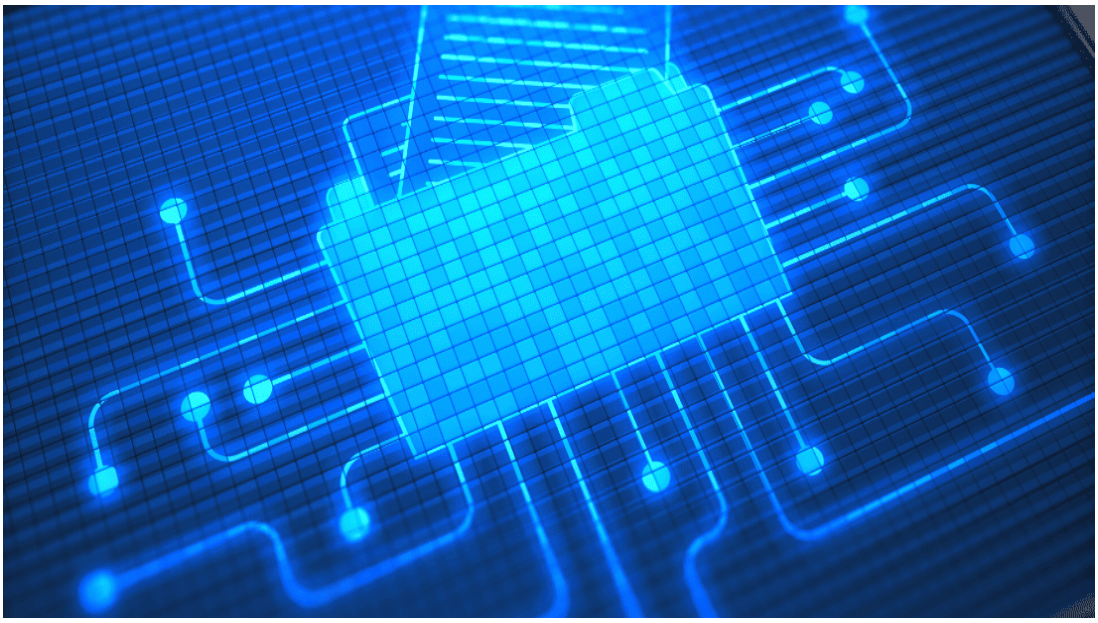
5.Front-End Technologies

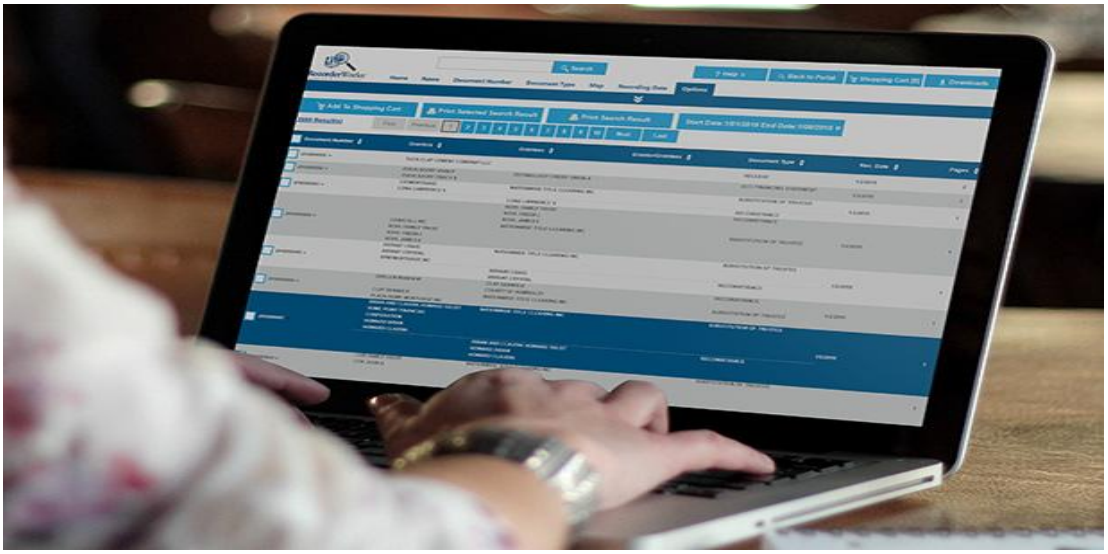
The front end is a client-facing suite of tech tools in web and app development. There are three main names here and the best thing is that there are no choices to be made (yes, no mistakes at this stage too).

- ReactJs Framework
- Material UI
- Java Script

CHAPTER : 06

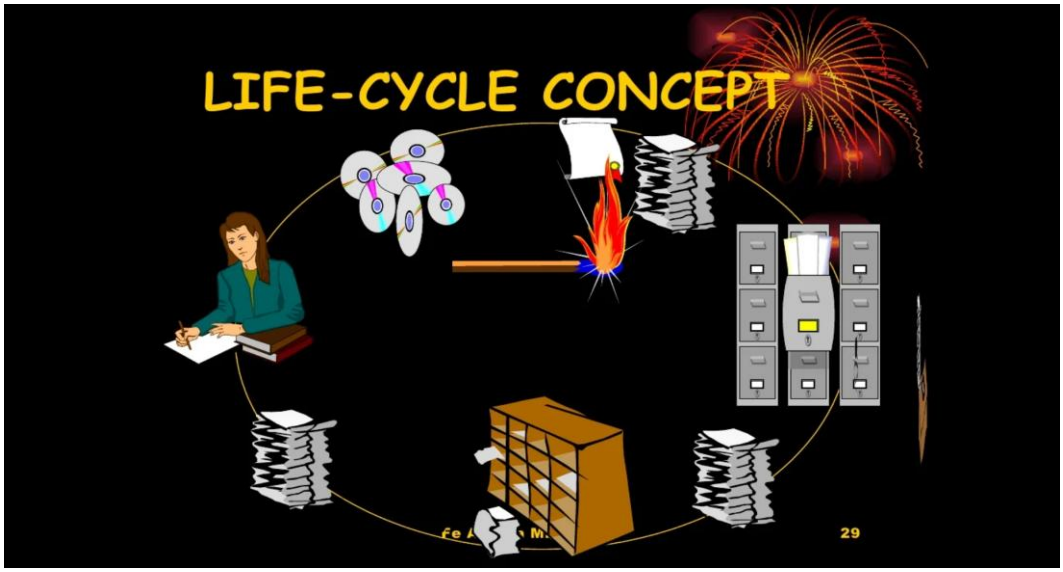
WORK VISUALISATION





CHAPTER : 07

WORKING



CHAPTER 8

CONCLUSION

The purpose of the work is to create an application, in order to allow officers and local people to do their work , communicate and learn about new rules and regulation. The core function is to let citizens and groups find there files easy and perform their work in a easy way , which is basically completed. However, the application will need a huge improvement with a team of deep knowledgeable people and a long time to fix all the flaws.

This Website Development Project gave us sound knowledge and experience in all major areas of computer application and to get exposure to various technical and management practices of IT industry.

In the conclusion I would like to say that Technology has made significant progress over the years to provide consumers a better experience in all sectors and will continue to do so for years to come. With the rapid growth of technology, people have speculated that online work and offices will overtake offline government offices. While this has been the case in some areas, there is still demand for brick-and-mortar offices in country areas where the citizens feels more comfortable by communicating and paper work . However, the availability of online facilities has produced a more educated consumer that can work around with relative ease without having to spend a large amount of time. In exchange, online offices and work has opened up doors to many small IT farms that would never be in merger with government At the end, it has been a win-win situation for both citizens and goverment.

Even though the application seems to be simple, I met a huge challenge since this is the first time that I use a new technology that I do not know from before and build it from 0. The time to learn and read about all necessary technologies is long. But the most difficult part is to start coding and implementing. There are too many errors which are new, and it takes a bit of time in order to wait for the developers of website to find a solution

CHAPTER 9

REFERENCES BIBLIOGRAPHY APPENDIX

GFG:- https://www.geeksforgeeks.org/

Stack Overflow:- https://stackoverflow.com/

Tutorialspoint:- https://www.tutorialspoint.com/index.htm

VS Code:- https://code.visualstudio.com/

W3 school :- https://www.w3schools.com/html/