**Chapter 1**

**INTRODUCTION**

1. **Project Description**
   1. **Statement of the Problem**

Now the weavers get details of raw materials of their work from contact with societies. Through this manner the peoples can’t get perfect and correct information about the availability of raw materials. Because of the these reasons there are so many problems are occured. One of the main problems faced by each societies are they record the details are in paper files…there is no safety for that records.

**1.1.2 Purpose**

The main objectives of this system are that the district society provide the raw materials to each weaving societies for production process. All weaving societies are always contact with the district society for know about the availability of the raw materials.

**1.1.3 Project Scope**

* The project mainly concentrates on maintaining entire activities involve in the KDHWCS Payyoli.
* This site makes activities like collecting daily and monthly reports, adding new government services faster for working of societies.
* Also peoples(employees and weavers in district and weaving societies) can easily utilize their benefits from government.

1. **Company Profile**

DECS Technologies has been delivering world-class development, Website design, implementation, and E-Commerce solutions to both start-up as well as various well known customers from all over the world since 2011. Extensive hands-on experience in developing Applications, Programming, and high-end Website design, coupled with deep-rooted knowledge and awareness of the latest industry trends, enables us to provide you with excellent service. Our highly-experienced team of programmers and systems analysts are able to deliver several core competencies.

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**Chapter 2**

**LITERATURE SURVEY**

1. **Existing and Proposed System**

In our district, there are **one district society** (in payyoli) and **28** **weaving societies now.**  **The district society(KDHWCS)** provide the raw materials such as yarns and dyes to the all **weaving societies**. Consider the weaving societies, there are above 400 weavers or employees. Handloom was a traditional job and it has been hailed as a tribal profession of the **Saliya** community as well.

The **saliya** communities together would form **saliya Streets** of their own from which it had been heard noisy sounds of spinning and weaving tools. The weavers are selected through membership and then join in the society. After that the members get training in weaving and in production process. The **wage payment** for the workers on a weekly basis. Every week end the workers will get the wage. Wage is an amount which is proportionate to the piece rate which they produced in that week.

Currently procedures are carried out manually and still there are a few vague ideas about the implementations of the system and procedures make this industry in this district nearly to extinction. Lack of a proper system to carry out these procedures creates troubles in both development and marketing**.** Providing the raw materials is done by district society and manufacturing and marketing are done by individual weaving societies and currently there is no proper co-ordination between these two societies resulting in wastage of government funds.

The societies have to wait till the festival seasons for marketing their products through exhibitions and stalls, resulting in accumulation of products in off seasons. They don’t have proper channel to calculate the entire produced stock of all societies and conduct exhibitions based on that. The production process involves boiling, bleaching, dying, winding, wiping, weaving and finishing and these steps are carried out by the **weaving cum dying master.** These products are marketed by **marketing staff** after quality checking. Financial management is done by individual societies itself and government gives some grants and subsidies such as in school uniforms.

* 1. **Feasibility Study**

**2.2.1 Operational Feasibility**

Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development. To ensure success, desired operational outcomes must be imparted during design and development. These include such design-dependent parameters such as reliability, maintainability, supportability, usability, disposability, sustainability, affordability and others. Therefore

**2.2.2 Technical Feasibility**

Technical feasibility study deals with the hardware as well as software requirements. The scope was whether the work for the project is done with the current equipment and the existing software technology has to be examined in the feasibility study. The outcome was found to be positive.

**2.2.3 Economic Feasibility**

The economic feasibility mainly deals with cost of the system and maintenance cost for the system and other cost relating hardware and software.As the project will work under Windows XP, Windows7 and Linux also no extra hardware is needed for execution of the project thus making it economically feasible.

1. **Tools and Technologies Used**

**2.3.1 C Sharp**

C# is a programming language that encompasses functional, imperative, generic, object-oriented (class-based), and component-oriented programming disciplines. C# (pronounced "see sharp") is a multi-paradigm programming language encompassing imperative, functional, generic, object-oriented (class-based), and component-oriented programming disciplines.

**2.3.2 Microsoft visual studio 2010**

Microsoft visual studio is an integrated development environment from Microsoft. It is used to develop console and graphical user interface applications along with Windows Forms applications, websites, web applications, and web services in both native code together with managed code for all platforms supported by Microsoft Windows, Windows Mobile, Windows CE, .NET Compact Framework and Microsoft Silver light.

**2.3.3 ASP.NET**

ASP.NET is a set of Web development tools offered by Microsoft. Programs like Visual Studio .NET and Visual Web Developer allow Web developers to create dynamic websites using a visual interface. Of course, programmers can write their own code and scripts and incorporate it into ASP.NET websites as well.

**2.3.4 MYSQL**

MYSQL is a database server, which is usable for both small and large applications. It supports the standard SQL. It is capable compile a number of platforms.

**2.3.5 HTML**

HyperText Markup Language is used for creating static web application.

**2.3.6 CSS**

Cascading Style Sheets is a language used to design and control the style of HTML document.

**Chapter 3**

**SOFTWARE REQUIREMENTS SPECIFICATION**

1. **Introduction**

Software Requirement Specification is basically an understanding the requirements of what the user needs. It is like a blueprint for completing the project. It divides the particular problem into different component parts. Software Requirement Specification shows us how the project will interact with the system hardware and in real world situations. Software Requirement Specification consists of functional and non-functional requirements. Functional requirements defines the functions of the system and its components. In short, Functional requirements tells us what the system must do and Non-Functional requirements tells us how to judge the operation of the system.

Software Requirement Specification evaluates the maintainability, response time, security, and time of recovery from events. It reduces the cost, time, effort required by the designers to achieve their goals. It aims to determine scope for project and provides guidelines for the project.

**3.1.1 Purpose**

The purpose of the document is to brief about the application constraints that is going to be developed. The document expresses the key points included in the “Kdhwcs web” web application.

**3.1.2 Benefits**

* Reduces paper work.
* societies can request for yarns and dyes through this site.
* Reduces manpower requirement.
* Searching of data is easy.
* More security features.
* Provide instructions for employees.
* Helps the employees for gain government schemes.
* Online booking service.
  1. **Overall Description**

**3.2.1 Product Features**

The product to be developed is focusing on the weaving society issue. There are ten types of users, they would be president,secretary,wsadmin,nhdc,customer,appaiser,weaving cum deiying master,auditor,salesman,clerck. The product is mainly built prioritizing the needs of weavers and customers, other categories of users are treated as second preferences.

**3.2.2 Product Perspective**

Customer relation and communication is based on web application. In this project we can solve different problems and customers can communicate easy way. For weaving society their product can sell.

**3.2.3 User Classes & Characteristics**

The application features would be made understandable with easy options. The users would be given a demo in using the application. They don’t need to have prior knowledge about the programming language used. But the basic concept of using computers is must.

**3.2.4 Design and Implementation Constraint**

This system is provisioned to be built on the c# using it with Asp.net which is highly flexible. Decision regarding which database to use should be taken considering the fact that data being exchanged or stored is large, and the appropriate data management system will yield efficient performance.

**3.2.5 Assumptions and Dependencies**

All the data entered will be correct and up-to-date. The date and time display, server going down cannot be maintained by the system. The browser and operating system will support the System. The members such as the users have basic knowledge of the WAMP server and the database MySQL to operate on the stored data.

* 1. **External Interface Requirements**

**3.3.1 Communication interfaces**

This is a web based system and communication is done through internet and internet

protocols.

**3.3.2 Hardware interface**

The system should have these hardware requirements:

Processor : AMD or higher

Memory Size : 1 GB RAM or More

Storage : 10 GB hard disk or more

**3.3.3 Software interfaces**

Operating System : Windows XP/Vista/7/8

Front End : ASP.NET, JavaScript with C#

Back End : Microsoft SQL Server 2005

Server : IIS-7

Other technologies : Java Script, HTML

**3.3.4 User Interfaces**

The system provides a user friendly GUI to the users. Appropriate error messages are generated when a user performs an operation which is invalid.The software provides good graphical interface for the front end of the database so that naive users can make use of the system with ease.

* 1. **Non**-**Functional requirements**

**3.4.1 Security Requirements**

The software can be used only by authenticated people. Once a particular data is submitted, if any modification is required, it can be done only with the permission from a higher authority.

The proposed system is secured for inventory management system. There different category of users and they are: Administrator, clients and employees. Depending upon their category, user access rights are decided. It means if the user is an administrator then he/she can be able to modify and delete the data. Employees can make the bill or add products to the database.

**3.4.2 Safety Requirements**

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

**3.4.3 Performance Requirements**

## The performance of the software should be good enough, the slow server would be a failure. The response to the request of the client-server need to be in a reasonable time limit.

**3.4.4 Software Quality Attribute**

## The quality of the system is maintained in such a way that it is very user-friendly to the users of the system. Some are as follows:

* **Reliability -** Good validation of user inputs will be done to avoid entering incorrect Username and password.
* **Portability -** This system can run in any operating system and browser.
* **Compatibility -** This system will be compatible with MySQL Server.
* **Flexibility -** The system keeps on updating the data according to the changes that takes place.
* **Security –** Each time there is security violation, System restricts the user from accessing that function.