



Training Report
OF
SIX MONTHS INDUSTRIAL TRAINING, UNDERTAKEN
AT
SUN PHARMACEUTICAL INDUSTRIES LIMITED
IN
IT DEPARTMENT
ON
“DATA BACKUP INVENTORY MANAGEMENT SYSTEM”
SUBMITTED IN PARTIAL FULFILLMENT OF THE DEGREE
OF
BE (CSE)

Under The guidance of:

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Department: IT

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Acknowledgement

It is my pleasure to be indebted to various people who directly or indirectly contributed in the development of those who influenced my thinking, behavior and acts during the course of study.

I express my sincere gratitude to all for providing me an opportunity to undergo the Industry Oriented Hands on Training (IOHE) in Sun Pharmaceutical Industries Limited, Mohali.

I am thankful to “Mr. Deepak Mehta” for his support, cooperation, motivation and constant guidance provided during the training for constant inspiration, presence and blessings.

I also extend my sincere appreciation to my fellow teammates for their cooperation, our brainstorming sessions and sharing of knowledge in this project.

Lastly, I would like to thank my parents for their moral support.

Date:

CERTIFICATE

This is to certify that Mr. "Tarandeep Singh" student of B.E. (CSE) of Chitkara University (Himachal Pradesh) has successfully completed one semester industrial training from "2-01-2018" to "17-05-2018". During this training, he worked on "Testing of the ongoing System i.e. Data Backup Inventory Management System" in "IT Department" under the guidance of "Deepak Mehta". His overall performance during the training period was "Outstanding".

(Signature)

Name: Deepak Mehta

Designation: Executive

Department: IT

PREFACE

My project “Data Backup Inventory Management System” is innovated to make a working web application on a project in order to create an e-Information about the physical backup. Through this application the person who is having the privileges can maintain inventory of the backup tapes and also having the privilege for sending back the tapes outside the location. The System is having different roles which can be provided to user based on the Activity & Access required by Application Administrator. Administrators have the provision for User Account & Access Management. This web application is made with the help of ASP.NET, HTML, CSS, JAVASCRIPT and MS SQL SERVER.

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1.Introduction

1.1 Purpose

The ***Data Backup Inventory Management System*** project is programmed in order to help the company in seeking backup tapes at a particular location. This project is designed in such a way that it keeps detailed information as well as separate information of all the locations from where the data is arriving and where it is stored.

The ***Data Backup Inventory Management System*** stores the information about the backup tapes more precisely we can say it store the information of the different systems at a particular location. It helps us in recovering of data according to the requirement by the employee.

The system is basically an e-information system for storing the precise location of the backup tapes.

1.2 Objectives

The objective of this UPM is to describe in detail the system operations for ***Data Backup Inventory Management System***.

2. System Overview

2.1 Background

The ***Data Backup Inventory Management System***, system is an in-house system developed by Information Technology department at ***Mohali*** located in ***Punjab***.

It is designed to perform the following business functions:

- a) To bring in an E-Information System to keep the backup tapes for all locations.
- b) To store the precise location of the backup tape.
- c) To maintain the record of send/received and available tapes.

2.2 Expected Business-Related Benefits

The system is expected to provide the following business-related benefits:

- a) DBIMS shall ensure faster search and easy tracking of all the backup tape records.
- b) DBIMS shall help to generate the summary of the available tapes in a location on various basis.

3.Introduction To Assigned Job

3.1 Scope

- **Existing System**

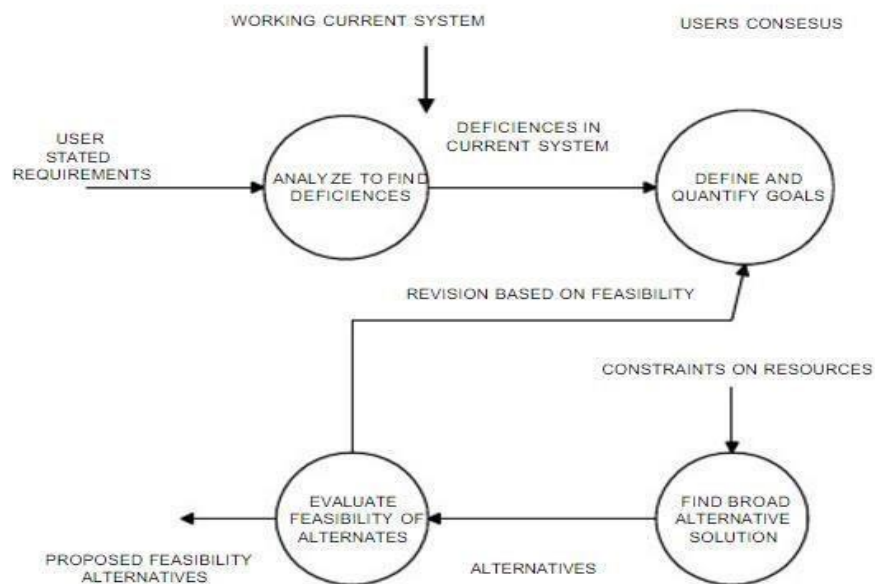
In existing Data Backup Inventory Management System, not all users can get access to the information because of the low working of the application or is not able to access any site. Sometimes the information is not updated or available for a particular place. In existing system the security is less and latest updates and uploads are not so frequent.

3.2 Individual Job

As a fresher firstly they gave me an external training by an internal trainer on **ASP.NET, HTML, CSS, JAVASCRIPT, MS SQL SERVER** also they taught us **Manual TESTING** and this training was 3 months. After that they deployed us on the existing website, and we were guided to enhance the existing project by adding various new functionalities.

4. Feasibility Study

Feasibility study is the process of determination of whether or not a project is worth doing. Feasibility studies are undertaken within tight time constraints and normally culminate in a written and oral feasibility report. The contents and recommendations of this feasibility study helped us as a sound basis for deciding how to precede the project. It helped in taking decisions such as which software to use, hardware combinations, etc. The following is the process diagram for feasibility analysis. In the diagram, the feasibility analysis starts with the user set of requirements. With this, the existing system is also observed. The next step is to check for the deficiencies in the existing system. By evaluating the above points, a fresh idea is conceived to define and quantify the required goals. Besides that, a set of alternatives and their feasibility is also considered incise of any failure in the proposed system. Thus, feasibility study is an important part in software development.



PROCESS DIAGRAM FOR FEASIBILITY ANALYSIS

In the SDLC (Systems Development Life Cycle) of our project we maintained a number of feasibility checkpoints between the two phases of the SDLC. These checkpoints indicate that the management decision to be made after a phase is complete. The feasibility checkpoints in our project were as follows:

- Survey phase checkpoint
- Study phase checkpoint
- Selection phase checkpoint
- Acquisition phase checkpoint
- Design phase checkpoint

4.1 Technical Feasibility

Technical feasibility determines whether the work for the project can be done with the existing equipment, software technology and available personnel. Technical feasibility is concerned with specifying equipment and software that will satisfy the user requirement. This project is feasible on technical remarks also, as the proposed system is more beneficiary in terms of having a sound proof system with new technical components installed on the system. The proposed system can run on any machines supporting Windows and Internet services and works on the best software and hardware that had been used while designing the system so it would be feasible in all technical terms of feasibility. The technologies such as ASP.NET, JavaScript are compatible.

H/W's are so familiar with the today's knowledge based industry that anyone can easily be compatible to the proposed environment.

Technical Feasibility Addresses Three Major Issues:

- **Is the proposed Technology or Solution Practical?**

The technologies used are matured enough so that they can be applied to our problems. The practicality of the solution we have developed is proved with the use of the technologies we have chosen. The technologies such as ASP.NET, JavaScript and **the compatible H/W's are so familiar with the today's** knowledge based industry that anyone can easily be compatible to the proposed environment.

- **Do we currently possess the necessary technology?**

We first make sure that whether the required technologies are available to us or nor. If they are available, then we must ask if we have the capacity. For instance, Will our current Printer be able to handle the new reports and forms required of a new system?

- **Do we possess the necessary Technical Expertise and is the Schedule reasonable?**

This consideration of technical feasibility is often forgotten during Feasibility analysis. We may have the technology, but that doesn't mean we have the skills required to properly apply that technology. As far as our project is concerned we have the necessary expertise so that the proposed solution can be made feasible.

4.2 Economical Feasibility

Economic feasibility determines whether there are sufficient benefits increasing to make the cost acceptable, or is the cost of the system too high. As this signifies cost benefit analysis and savings. On the behalf of the cost-benefit analysis, the proposed system is feasible and is economical regarding its pre-assumed cost for making a system.

During the economical feasibility test we maintained the balance between the Operational and Economical feasibilities, as the two were the conflicting. For example, the solution that provides the best operational impact for the end-users may also be the most expensive and, therefore, the least economically feasible.

We classified the costs of Online job portal according to the phase in which they occur. As we know that the system development costs are usually one-time costs that will not recur after the project has been completed.

For calculating the Development costs, we evaluated certain cost categories viz.

- Personnel costs
- Computer usage
- Training
- Supply and equipment's costs
- Cost of any new computer equipment's and software.

In order to test whether the Proposed System is cost-effective or not we evaluated it through three techniques viz.

- Payback analysis
- Return on Investment
- Net Present value
- Cost-based study

It is important to identify cost and benefit factors, which can be categorized as follows: 1. Development costs; and 2. Operating costs. This is an analysis of the costs to be incurred in the system and the benefits derivable out of the system.

- Time-based study

This is an analysis of the time required to achieve a return on investments. The future value of a project is also a factor.

4.3 Behavioral feasibility

People are inherently resistant to change and computers have been known to facilitate change. There is always some reluctance among the users against the introduction of new system but they were told that this system would eliminate the unnecessary overhead of database

migration, And conversion, which presently had to be carried out on daily basis to facilitate transactions between the different departments. The objective this feasibility phase is to take the operational staff into confidence. As the success of a good system depends upon the willingness of the operating staff, they were taken into full confidence that the new proposed system would make their jobs easier, relieve them from the unnecessary overheads and reduce the possibility of errors creeping into the system.

4.4 Project

The Data Backup Inventory Management System is to create an e-Information about the backup tapes stored in the location. Through this application we can easily track a tape that where it is stored, from which location it is, when the tape has arrived, from which courier it has arrived, etc. Moreover if we want to add an employee who can make changes and perform various functions on the database we have to contact to the administrator as the administrator can provide different privileges to the user.

Data Backup Inventory Management System project is aimed to developing an online Backup Tapes Information. The entire Data Backup Inventory Management System project has been developed keeping in view of the distributed client server computing technology, in mind.

Through this application we can easily track a tape that where it is stored, from which location it is, when the tape has arrived, from which courier it has arrived, etc. Moreover if we want to add an employee who can make changes and perform various functions on the database we have to contact to the administrator as the administrator can provide different privileges to the user.

Data Backup Inventory Management System project is designed such that it follows the view of distributed architecture having centralized storage of the database part. By using the constructs of MS-SQL Server and all the user interfaces have been designed using the ASP.NET technologies. The database connectivity is planned using the “SQL Connection” methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

5. Requirement Analysis

Systems analysis is the study of sets of interacting entities, including computer systems analysis. This field is closely related to operations research. It is also "an explicit formal Inquiry carried out to help someone (referred to as the decision maker) identify a better course of action and make a better decision than he might otherwise have made. "Analysis is defined as the procedure by which we break down an intellectual or substantial whole into parts so that we can achieve our end goals. The development of a computer-based information system includes a systems analysis phase which produces or enhances the data model which itself is a precursor to creating or enhancing a database. There are a number of different approaches to system analysis. When a computer-based information system is developed, systems analysis would constitute the following:

Steps:

1. The development of a feasibility study, involving determining whether a project is economically, socially, technologically and organizationally feasible.
2. Conducting fact-finding measures, designed to ascertain the requirements of the system's end-users. These typically span interviews, questionnaires, or visual observations of work on the existing system.
3. Gauging how the end-users would operate the system (in terms of general experience in using computer hardware or software), what the system would be used for etc.

Another view outlines a phased approach to the process. This approach breaks systems analysis into 5 phases:

- Scope definition
- Problem analysis
- Requirements analysis
- Logical design
- Decision analysis

Use case are a widely-used systems analysis modelling tool for identifying and expressing the functional requirements of a system. Each use case is a business scenario or event for which the system must provide a defined response. Use cases evolved out of object-oriented analysis.

5.1 Requirement specification

Information gathering is usually the first phase of the software development project. The purpose of this phase is to identify and document the exact requirements for the system. The **user's** request identifies the need for a new information system and on investigation re-defined the new problem to be based on MIS, which supports management. The objective is to determine whether the request is valid and feasible before recommendation is made to build a new or existing manual system continues.

The major steps are:

- Defining the user requirements.
- Studying the present system to verify the problem.
- Defining the performance expected by the candidate to use requirements.

5.2 S/W and H/W Requirement Specification:

5.2.1 Hardware Requirements:

- Pentium IV 1.8 GHz and Above
- 128 MB DDRAM or More
- 40 GB HDD
- Printer
- Power Backup (UPS)
- Internet Connection

5.2.2 Software Requirements:

1. Visual Studio 2012
2. Database SQL Server 2008

3. Operating System

- Windows 7 /8 /10

5.3 Technologies User

1. Presentation Layer

- ❖ Web Interface
 - HTML (Hypertext Markup Language).
 - CSS (Cascading Style Sheet).
 - JavaScript.

2. Database Layer

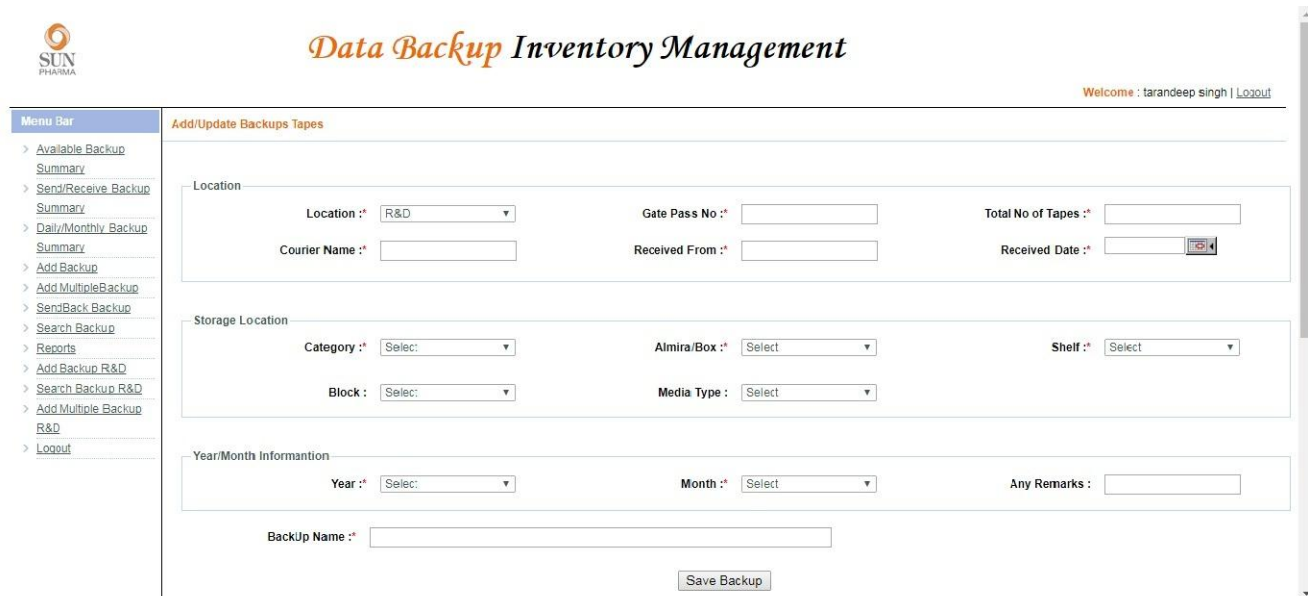
- MS SQL SERVER.

6. DBIMS Operating Procedure

6.1 Add Backup

The user can add the backup tapes under the Add Backup Option.

1. C



The screenshot displays the 'Data Backup Inventory Management' web application. The interface includes a 'Menu Bar' on the left with options like 'Available Backup Summary', 'Send/Receive Backup Summary', 'Daily/Monthly Backup Summary', 'Add Backup', 'Add MultipleBackup', 'SendBack Backup', 'Search Backup', 'Reports', 'Add Backup R&D', 'Search Backup R&D', 'Add Multiple Backup R&D', and 'Logout'. The main content area is titled 'Add/Update Backups Tapes' and contains several input fields and dropdown menus. The 'Location' section includes 'Location :*' (a dropdown menu showing 'R&D'), 'Gate Pass No :*' (a text box), 'Total No of Tapes :*' (a text box), 'Courier Name :*' (a text box), 'Received From :*' (a text box), and 'Received Date :*' (a date picker). The 'Storage Location' section includes 'Category :*' (a dropdown menu), 'Almira/Box :*' (a dropdown menu), 'Shelf :*' (a dropdown menu), 'Block :*' (a dropdown menu), and 'Media Type :*' (a dropdown menu). The 'Year/Month Information' section includes 'Year :*' (a dropdown menu), 'Month :*' (a dropdown menu), and 'Any Remarks :*' (a text box). At the bottom, there is a 'BackUp Name :*' text box and a 'Save Backup' button. The top right corner shows a welcome message: 'Welcome : tarandeep singh | Logout'.

2. Fill in the following fields for adding the backup.

- Location: It is a dropdown showing the different locations of the company
- Gate Pass No: this is a textbox in which Gate pass number is stored which is issued at the time when the parcel is received at the gate.
- Total Number of Tapes: This is the textbox which stores the number of tapes arrived.
- Courier Name: This is a textbox in which courier name is stored i.e. from which courier company the tapes are sent.

- Received From: This is a textbox storing the name of the person who has received the tapes.
 - Received Date: this is a text box which stores on which date the tapes are received.
 - Category: It is a dropdown which shows the category in which you are storing the tapes i.e. it is a box, Almira or rack.
 - Rack: It is a dropdown which displays different Rack numbers. Select the Rack in which you want to store the tape.
 - Shelf: It is a dropdown which displays different Shelf numbers on the Rack. Select the shelf in which you want to store the tape.
 - Box: It is a dropdown which displays different Box numbers on a shelf in the Rack. Select the Box in which you want to store the tape.
 - Media Type: It is a dropdown which tells about the backup tape whether it is a CD, DVD or a HDD and etc.
 - Year: It is a textbox which stores the year of the backup tape.
 - Month: It is a textbox which stores the month of the backup tape.
 - Remarks: It is a textbox in which the user can enter any remarks which would help the other user at any time.
 - Backup Name: It is a textbox which stores the name of the Backup Tape.
3. Click on “Add Backup” button to add the data in the database. Once the User click on this button the request will be viewed in the grid-view as below.

[Tapes Details](#) (8911 Tapes)

[Tapes Summary](#) » [Received Tapes](#)

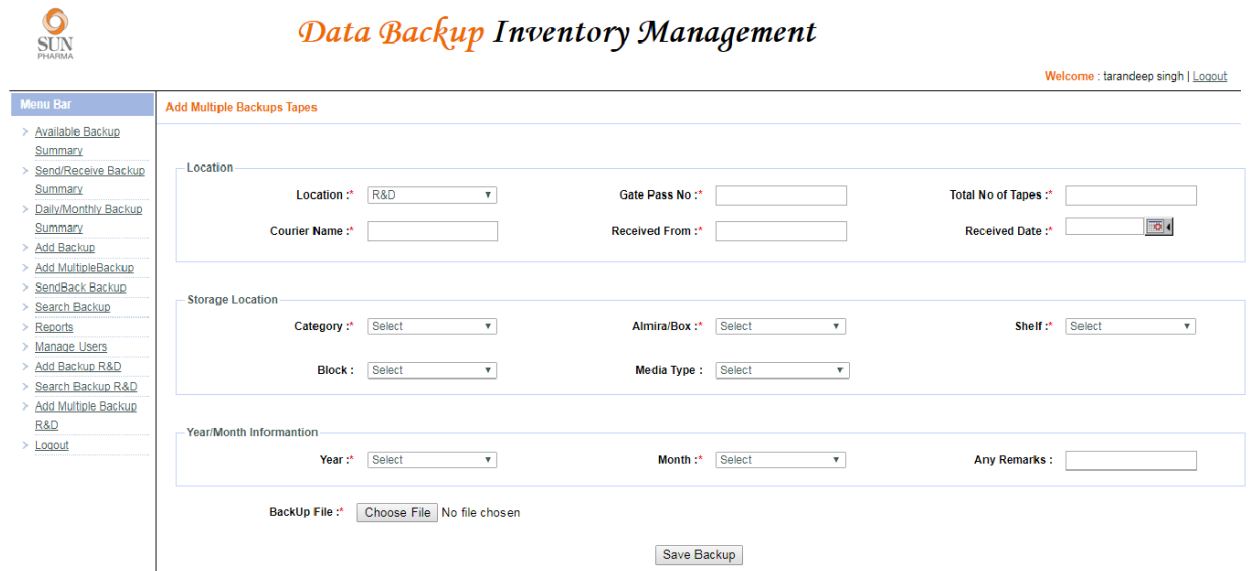
<u>Location</u>	<u>Year</u>	<u>Month</u>	<u>Send/Received Date</u>	<u>Total</u>	<u>GatePassno</u>	<u>CourierName</u>
GGN-R&D-2	2014	Jul	04/01/2018	<u>8911</u>		NA

6.2 Add Multiple Backup

The user can add multiple backup tapes at a time by filling the following details and by uploading the excel sheet with the various details.

The user can add the backup tapes under the Add Multiple Backup Option.

1. Click Add Backup.



The screenshot displays the 'Data Backup Inventory Management' web application. On the left is a 'Menu Bar' with options: Available Backup Summary, Send/Receive Backup Summary, Daily/Monthly Backup Summary, Add Backup, Add Multiple Backup, Send/Rack Backup, Search Backup, Reports, Manage Users, Add Backup R&D, Search Backup R&D, Add Multiple Backup R&D, and Logout. The main content area is titled 'Add Multiple Backups Tapes' and contains a form with the following sections:

- Location:** Includes fields for Location (dropdown, currently 'R&D'), Gate Pass No (text box), Total No of Tapes (text box), Courier Name (text box), Received From (text box), and Received Date (text box with a calendar icon).
- Storage Location:** Includes fields for Category (dropdown), Almira/Box (dropdown), Shelf (dropdown), Block (dropdown), and Media Type (dropdown).
- Year/Month Information:** Includes fields for Year (dropdown), Month (dropdown), and Any Remarks (text box).
- BackUp File:** A 'Choose File' button and the text 'No file chosen'.
- Save Backup:** A button at the bottom right of the form.

At the top right of the application, there is a user greeting: 'Welcome : tarandeep singh | Logout'.

2. Fill in the following fields for adding the backup.

- Location: It is a dropdown showing the different locations of the company
- Gate Pass No: this is a textbox in which Gate pass number is stored which is issued at the time when the parcel is received at the gate.
- Total Number of Tapes: This is the textbox which stores the number of tapes arrived.
- Courier Name: This is a textbox in which courier name is stored i.e. from which courier company the tapes are sent.

- Received From: This is a textbox storing the name of the person who has received the tapes.
 - Received Date: this is a text box which stores on which date the tapes are received.
 - Category: It is a dropdown which shows the category in which you are storing the tapes i.e. it is a box, Almira or rack.
 - Rack: It is a dropdown which displays different Rack numbers. Select the Rack in which you want to store the tape.
 - Shelf: It is a dropdown which displays different Shelf numbers on the Rack. Select the shelf in which you want to store the tape.
 - Box: It is a dropdown which displays different Box numbers on a shelf in the Rack. Select the Box in which you want to store the tape.
 - Media Type: It is a dropdown which tells about the backup tape whether it is a CD, DVD or a HDD and etc.
 - Year: It is a textbox which stores the year of the backup tape.
 - Month: It is a textbox which stores the month of the backup tape
 - Remarks: It is a textbox in which the user can enter any remarks which would help the other user at any time.
 - Backup File: It is a File-Chooser which lets the user choose the file from the system which has the details of the Backup tapes.
3. Click on “Add Backup” button to add the data in the database. Once the User click on this button the request will be viewed in the grid-view as below.

6.3 Available Backup Summary


Tapes Details (8911 Tapes)

[Tapes Summary](#) » [Received Tapes](#)

Location	Year	Month	Send/Received Date	Total	GatePassno	CourierName
GGN-R&D-2	2014	Jul	04/01/2018	8911		NA

The user is provided with various options which are listed below:

- The user can check the number of tapes available in a particular year.
- The user can check the number of tapes available in a particular month.



Data Backup Inventory Management

Welcome : tarandeep singh | [Logout](#)

Menu Bar

- > [Available Backup Summary](#)
- > [Send/Receive Backup Summary](#)
- > [Daily/Monthly Backup Summary](#)
- > [Add Backup](#)
- > [Add MultipleBackup](#)
- > [SendBack Backup](#)
- > [Search Backup](#)
- > [Reports](#)
- > [Add Backup R&D](#)
- > [Search Backup R&D](#)
- > [Add Multiple Backup R&D](#)
- > [Logout](#)

Available Backup Summary

Location:
Type:
Box/Almira:

Year	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unm	Total Send	Total Avail.
9999	Available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	Available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	Available	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	Available	0	0	0	0	0	0	8911	0	0	0	0	14907	0	0	23818
	Send	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0

6.4 Daily/Monthly Backup Summary

It shows the number of available backup tapes. The user can check the entries in various options:

- The user can check the number of tapes available daily, weekly, monthly and yearly.
- The user is provided with a dropdown box for the search option as the user can select the location of the plant for which the available number of tapes would be shown as a result.



Data Backup Inventory Management

Welcome : tarandeep singh | [Logout](#)

Menu Bar

Daily/Monthly Backup Summary

> Available Backup Summary

> Send/Receive Backup Summary

> Daily/Monthly Backup Summary

> Add Backup

> Add MultipleBackup

> SendBack Backup

> Search Backup

> Reports

> Add Backup R&D

> Search Backup R&D

> Add Multiple Backup R&D

> Logout

Location: ALL


Search

Year	Status	Daily	Weekly	Monthly	Yearly	Not Identified
9999	Available	0	0	0	0	0
2017	Available	0	0	0	0	0
2016	Available	0	0	0	0	0
2015	Available	0	0	0	0	0
2014	Available	0	0	8911	14907	0
2013	Available	0	0	0	0	0
2012	Available	0	0	0	0	0
2011	Available	0	0	0	0	0
2010	Available	0	0	0	0	0

6.5 Search Backup

- Search for the backup tape by selecting the various search options as below.
 - Location- Select the location.
 - Year- Select the year.
 - Month- Select the month.
 - Category- Select the category.
 - Block- Select the block.
 - Almira- Select the Almira.

- Shelf- Select the shelf.
- Backup Type- Select the Backup Type.
- Media Type- Select the media type.
- Backup Name- Write the backup name if any.
- Gate Pass- Select the Gate Pass number.



Data Backup Inventory Management

Welcome : tarandeep singh | [Logout](#)

Menu Bar

- > Available Backup Summary
- > Send/Receive Backup Summary
- > Daily/Monthly Backup Summary
- > Add Backup
- > Add MultipleBackup
- > SendBack Backup
- > Search Backup
- > Reports
- > Manage Users
- > Add Backup R&D
- > Search Backup R&D
- > Add Multiple Backup R&D
- > Logout

Search Backups

Location :

Category :

Almira :

Backup Type :

Backup Name :


Year/Month :

Block :

Shelf :

Media Type :

Gate Pass :



Almira:

Shelf:

Block:

- The user can change the storage location of the tape by using the move to option after searching the tape.
 - Search the tape to be reallocated.
 - Select the tape by clicking on the checkbox,
 - Then select the Almira → Shelf → Block → Click on Move to.



Data Backup Inventory Management

Welcome : tarandeep singh | [Logout](#)

Menu Bar

- > Available Backup Summary
- > Send/Receive Backup Summary
- > Daily/Monthly Backup Summary
- > Add Backup
- > Add Multiple Backup
- > Send Back Backup
- > Search Backup
- > Reports
- > Manage Users
- > Add Backup R&D
- > Search Backup R&D
- > Add Multiple Backup R&D
- > Logout

Search Backups

Location :

Category :

Almira :

Backup Type :

Backup Name :

Year/Month : |

Block :

Shelf :

Media Type :

Gate Pass :



Almira:

Shelf:

Block:

6.6 Send Backup


The User can send back the backup on requirement by the following process:

1. Search for the backup tape by selecting the various search options as below.
 - Location- Select the location.
 - Year- Select the year.
 - Month- Select the month.
 - Category- Select the category.
 - Block- Select the block.
 - Almira- Select the Almira.
 - Shelf- Select the shelf.
 - Backup Type- Select the Backup Type.
 - Media Type- Select the media type.
 - Backup Name- Write the backup name if any.
 - Gate Pass- Select the Gate Pass number.

2. The user can send the backup after searching the tape.

- Search the tape to be send back.
- Select the tape by clicking on the checkbox,
- The user can send multiple backup by selecting multiple checkboxes.
- Then select the Date → Gate Pass No. → Courier Name.

3. Click on Send Back.



Data Backup Inventory Management

Welcome : tarandeep singh | [Logout](#)

Menu Bar

- > [Available Backup Summary](#)
- > [Send/Receive Backup Summary](#)
- > [Daily/Monthly Backup Summary](#)
- > [Add Backup](#)
- > [Add MultipleBackup](#)
- > [SendBack Backup](#)
- > [Search Backup](#)
- > [Reports](#)
- > [Manage Users](#)
- > [Add Backup R&D](#)
- > [Search Backup R&D](#)
- > [Add Multiple Backup R&D](#)
- > [Logout](#)

SendBack Tapes

Location :

Category :

Almira :

Backup Type :

Backup Name :

Year/Month :

Block :

Shelf :

Media Type :

Gate Pass :

Send Date:

Gate PassNo:

Courier Name:

	Backup Name	Year	Month	Location	Almira	Shelf	Block No	Received Date	Send Date	Remarks
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST
<input type="checkbox"/>	Monthly	2014	Jul	GGN-R&D-2	Almira-1	Shelf-1	Block-1	04/01/2018		TEST

6.7 Send/Receive Backup Summary

The user is provided with various options which are listed below:

- The user can check the number of tapes received in a particular year.
- The user can check the number of tapes send in a particular year.
- The user can check the number of tapes received in a particular month of the year.
- The user can check the number of tapes send in a particular month of the year.

Data Backup Inventory Management

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Menu Bar

Send/Receive Backup Summary

> Available Backup Summary

> Send/Receive Backup Summary

> Daily/Monthly Backup Summary

> Add Backup

> Add MultipleBackup

> SendBack Backup

> Search Backup

> Reports

> Manage Users

> Add Backup R&D

> Search Backup R&D

> Add Multiple Backup R&D

> Logout

Location ALL

Type ALL

Box/Almira ALL

Search

Year	Send/Receive	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unm	Total Send	Total Receive
9999	Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	Received	0	0	0	0	0	0	0	0	0	0	0	14907	0	0	14907
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Send	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data Backup Inventory Management

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Menu Bar		Tapes Details (14907 Tapes)								
<div>> Available Backup Summary</div> <div>> Send/Receive Backup Summary</div> <div>> Daily/Monthly Backup Summary</div> <div>> Add Backup</div> <div>> Add MultipleBackup</div> <div>> SendBack Backup</div> <div>> Search Backup</div> <div>> Reports</div> <div>> Manage Users</div> <div>> Add Backup R&D</div> <div>> Search Backup R&D</div> <div>> Add Multiple Backup R&D</div> <div>> Logout</div>		<div>Tapes Summary » Previous Report » Received Tapes</div>								
		S.No.	Backup Name	Year	Month	Location	Almira	Shelf	Block No	Send/Received Date
		1	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		2	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		3	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		4	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		5	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		6	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		7	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		8	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		9	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		10	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		11	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
		12	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015
13	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015		
14	Yearly	2014	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015		
Processing request...			114	Dec	GGN-SEC-32	Almira-4	Shelf-1	Block-1	31/12/2015	

6.8 Report

The user can download the report of the following:

- Backup Log (Out) Report.
- Backup Log (In) Report.
- Year/Location wise Monthly Summary.
- Location/Year wise Summary Matrix.



Data Backup Inventory Management

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Reports


- > [Backup Log\(Out\) Report](#)
- > [Backup Log\(In\) Report](#)
- > [Year/Location wise Monthly Summary](#)
- > [Location/Year wise Summary Matrix](#)

6.9 Manage Users

The admin can add new users and grant them various privileges as per the requirement.

1. Make the users Active or Inactive

- Select the user by clicking on the check box in front of the user name.
- Click on Active or Inactive.



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Menu Bar	Manage Users (31 Users)						
<ul style="list-style-type: none"> > Available Backup Summary > Send/Receive Backup Summary > Daily/Monthly Backup Summary > Add Backup > Add Multiple Backup > Send Back Backup > Search Backup > Reports > Manage Users > Add Backup R&D > Search Backup R&D > Add Multiple Backup R&D 	Active Inactive Add New User						
	<input type="checkbox"/>	User Name	User NT	User EmailID	Active	Admin	Action
	<input type="checkbox"/>	Abhay Kumar Jain (HCL)	abhaykij		N	N	Edit
	<input type="checkbox"/>	Amit Kr. Kushwaha	Amitkushw		N	N	Edit
	<input type="checkbox"/>	Anand Mehra	anandsm		Y	N	Edit
	<input type="checkbox"/>	Anita Thakur	anta-tr		N	N	Edit
	<input type="checkbox"/>	Ashish	ashish-tr		N	N	Edit
	<input type="checkbox"/>	Bhupinder Bajwa	bhupinderb		Y	Y	Edit
	<input type="checkbox"/>	Deepak Mehta	deepakme		Y	Y	Edit
	<input type="checkbox"/>	Divesh Sachdeva (HCL)	Diveshsa		N	N	Edit
<input type="checkbox"/>	Gaurav srow	Gauravs		Y	N	Edit	

2. The admin can add new user and provide the user with different privileges through which the user can perform the following functions. To add a new user:


Click on add new user.

Fill the following details to add a User:

- User Name.
- User NT.
- Email of the User.
- Active or Inactive.
- Below are the permissions that can be granted to the user:
 - i. Available Backup Summary.
 - ii. Send/Receive Backup Summary

- iii. Daily/Monthly Backup Summary.
- iv. Add Backup.
- v. Add Multiple Backup.
- vi. Send Back Backup.
- vii. Search Backup.
- viii. Reports.
- ix. Manage Users.

3. Click on the Submit button to add the new user.



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- > [Logout](#)

Add / Modify User

Manage Users > Add / Modify User

User Name :

User NT :

User Email :

Admin : ☐ Yes ☒ No

Active : ☒ Yes ☐ No

Access Rights :

- Available Backup Summary
- Send/Receive Backup Summary
- Daily/Monthly Backup Summary
- Add Backup
- Add MultipleBackup
- SendBack Backup
- Search Backup
- Reports
- Manaoe Users

7. Future Enhancements

8. Conclusions

- We got the experience of working in a great company Sun Pharmaceutical Industries Private Limited.
- We got the practical experience on the latest technologies used in the companies.
- We got to know the working of ASP.NET, HTML, JAVASCRIPT and MS SQL SERVER.
- We also got some basic knowledge of business module.

9. Bibliography and References

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- <https://docs.microsoft.com/en-us/dotnet/csharp/>