# Introduction.

TARS Delivery System is a postal organization with different branches at different cities delivering the mails through various options like courier, speed post, Normal post, VPP etc… and money orders. They used to charge for the delivery of the mails based on the type of the service preferred, weight of the mail and as well based on the distance.

# Existing Scenario.

Currently they are using a stand alone application that holds the details of the mails like the delivery number, date of posting, the weight, type of delivery chosen, Destination address, the address of the person who has posted it, contact details, etc… As soon as the packet or the letter is received, the date of receipt at the destination place office and the date of delivery to the destination address are captured. Some of them (companies, etc…) send multiple envelopes, or couriers, etc….

Now they want an online application to be incorporated in the system so that the customer can also check from his end when the packet or the letter is delivered, as most of the packets or letters that are posted are mainly for the business purpose like tenders, application forms, etc….. Also the department people instead of maintaining separate applications each at a location they can use the same application (online) that performs all the tasks of the application that they are using.

The application which they are using right now, also calculates the charges for the delivery based on the weight, distance, and the type of the service chosen by the customer. The application that they are currently using also holds the information of the charges, Pin code details, and the contact details include based on the location. The Organization head alone has the right to change the charges for the delivery.

Even these concepts are needed to be incorporated in the online application.

# Customer Requirement Specificaion.

The customer wants the online application to include the following task:

* 3.1 Less complexity of the calculating the charges

3.2 The online application should hold the information of the details of the charges, pin codes, contact details of the offices based on the location.

3.3 The Organization head alone decides the charges for the services and he can alone change them.

3.4 The organization head can alone create the account for the employees.

3.5 The employees can only enter the details of the deliverable, or update his/her account information or change his/her password.

3.6 The employees can check the details like the charges for the service, pin code and as well the contact details.

3.7 The employees can search for the records like the delivery mail details, and they have the authority to change the details or add some more details of the deliverable mail.

3.8 The customers should be able to utilize the services of the website like to check the status of the delivery based on the delivery number given to him/her.

3.9 The customers can check for the charges of the different kinds of the services they provide, pin codes of the locations, and the contact details based on the location.

3.10 The customers can create, update account.

3.11 The system application to track down the information about the mails they have received from the customers, their branches, etc…

* 1. The application should hold the details of the deliverables like when and where the deliverable is dropped, the contact details of the customer and as well the contact details of the destination, charges levied for that service, weight of the deliverable, and the type of the service preferred.
  2. Also they should be able to find out what are to be delivered first based on the service chosen and the deliverables should be dispatched based on the type of service and then the details of dispatching, date of delivering it to the destination address should also be captured.
  3. The details are needed to be stored using the database.

# Functional Requirement Specificaion.

## 4.1 Customer can register as members.

4.1.1 Description

The system must provide a page to allow customer create account with following information:

First Name

Last Name

Email as a username for login to website

Password

Birthday

Sex

Address

Phone

4.1.2 Functional Requirements

REQ-01 Customer must provide First Name, Last Name, Email, Password, Birthday, Sex, Address and Phone.

4.2 Customer can login to website

4.2.1 Description

The system must provide a page to customer login to website

4.2.2 Functional Requirements

REQ-02 Customer must provide Email, Password to login into website.

REQ-03 Customer can only access to pages they have permission.

4.3 The customer should be able to check the details of the deliverables

4.3.1 Description

The System must provide a page to customer to check the details of the deliverables. They can check by delivery PIN.

4.3.2 Functional Requirements

REQ-04 Customer must provide delivery PIN to check the details of the deliverables.

4.4 Customer can search their deliveries PIN

4.4.1 Description

The System must provide a page to customer to search their deliveries Pin. They can search by their Email.

4.4.2 Functional Requirements

REQ-05 Customer must provide Email to search the list of their deliveries Pin.

4.5 The customer can update their account information.

4.5.1 Description

The System must provide a page to customer to update their account with following information:

First Name

Last Name

Password

Birthday

Sex

Address

Phone

4.5.2 Functional Requirements

REQ-06 Customer can update their First Name, Last Name, Password, Birthday, Sex, Address and Phone.

4.6 Employees can login to the website.

4.6.1 Description

The system must provide a page to employee login to website.

4.6.2 Functional Requirement

REQ-07 Employee must provide Email, Password to login into website.

REQ-08 Employee can only access to pages they have permission.

4.7 The employee can update their account information.

4.7.1 Description

The System must provide a page to employee to update their account with following information:

First Name

Last Name

Password

Birthday

Sex

Address

Phone

Image

4.7.2 Functional Requirements

REQ-09 Employee can update their First Name, Last Name, Password, Birthday, Sex, Address, Phone and Image.

4.8 The employee can only add or edit the details of the deliverables

4.8.1 Description

The System must provide a page to employee to add the details of the deliverables:

* Add new customer account if the customer has not registered for an account.
* If customer already has registered account, the employee just input an email of customer.
* And input the details of the deliverables.

The System must provide a page to employee to edit the details of the deliverables.

4.8.2 Functional Requirements

REQ-10 Employee can check the account existed yet.

REQ-11 Employee add new customer account if the customer has not registered for an account.

REQ-12 Employee adds the details of the deliverables.

REQ-13 Employee edits the details of the deliverables.

4.9 The employees can view the company's general information

4.9.1 Description

The System must provide:

A page to employee sees the details of the charges.

A page to employee sees contact information based on the location.

A page to employee sees the pin codes of the location.

4.9.2 Functional Requirements

REQ-14 Employee sees the details of the charges.

REQ-15 Employee sees contact information based on the location.

REQ-16 Employee sees the pin codes of the location.

4.10 Admin login to the website.

4.10.1 Description

The system must provide a page to admin login to website.

4.10.2 Functional Requirement

REQ-17 Admin must provide Email, Password to login into website.

REQ-18 Admin can access all pages of the website.

4.11 The Admin should be able to create the employee profiles

4.11.1 Description

The System must provide a page to Admin create the employee profiles.

4.11.2 Functional Requirements

REQ-19 Admin can create the employee profiles.

REQ-20 Admin can agree for the employees change their profiles.

REQ-21 Admin can delete the employee profiles.

4.12 Admin can declare and modify the charges.

4.12.1 Description

The System must provide pages to Admin manage the charges.

4.12.2 Functional Requirements

REQ-22 Admin can declare the charges.

REQ-23 Admin can Admin modify the charges.

REQ-24 Admin can Admin delete the charges.

4.13 Admin can declare and modify the information of Branches and Offices.

4.13.1 Description

The System must provide pages to Admin manage the Branches and Offices.

4.13.2 Functional Requirements

REQ-25 Admin can declare the Branches and Offices.

REQ-26 Admin can Admin modify the Branches and Offices.

REQ-27 Admin can Admin delete the Branches and Offices.

4.14 Admin can check feedback.

4.13.1 Description

The System must provide pages to Admin manage the feedback

4.13.2 Functional Requirements

REQ-28 Admin can check the feedback.

# System Requirement.



## Hardware

* Web Server

|  |  |
| --- | --- |
| Processor | PC Pentium IV 2.0 GHz or higher. |
| Memory | 256 MB or higher. |
| HDD | Free 20MB or higher. |
| Modem/ADSL | Connecting to internet 24/24 |

* Client

|  |  |
| --- | --- |
| Processor | PC Pentium IV 2.0 GHz or higher. |
| Memory | 256 MB or higher. |
| HDD | Free 20MB or higher. |
| Monitor | Super VGA(800x600) |
| Pointing Device | Microsoft Mouse, IntelliMouse® or compatible pointing device. |
| Modem/ADSL | Connecting to internet . |

## Software

* Web Server

|  |  |
| --- | --- |
| Operation System | Windows XP SP2 or higher. |
| Browers | Internet Explorer 6.0 or higher |
| Database | Microsoft SQL Server 2005 Standard Edition |
| Software | Microsoft .NET Framework 3.0 or higher |

* Client

|  |  |
| --- | --- |
| Operation System | Windows XP SP2 or higher. |
| Browers | Internet Explorer 6.0 or higher |

# Development Software.

* Microsoft Windows XP SP2.
* Microsoft Visual Studio 2008 SP1.
* Microsoft SQL Server 2005 Standard Edition.
* Silverlight Tools 2.0.
* Notepad ++.
* PowerDesigner 15.1

# Technology.

* .NET Technologies.