

Tele Direct

A DevCenter Project

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1. USER STORIES

Story A

As a telephone operator, I would like to view the stored contacts in the company database so that I can relay calls as requested to me.

Story B

As a contact manager, I want to be able to add a new contact to the telephone directory so that the new contact is accessible to others in the company.

Story C

As a telephone operator, I would like to be able to update the contact details of a person so that the telephone directory is updated for use.

Story D

As a contact manager, I want to be able to delete a contact from the telephone directory when a person has no more ties with the company.



1.1 SUBDIVISION INTO TASKS

Table 1.1 The Plan

User Story	Tasks	
	Task Details	Effort Estimation
Story A	<ul style="list-style-type: none">▪ Set-up development environment▪ Make use case diagrams▪ Design the user interface▪ Generate class diagrams▪ Generate the designed UI using VC++▪ Make the UI controls functional▪ Create a schema for the database▪ Implement the schema on MySQL▪ Write test queries for the database▪ Create a database wrapper class to access the database records.▪ Write program logic to fetch the records from the database and display it to the user▪ Write test classes for the application	<ul style="list-style-type: none">▪ 4 hours▪ 4 hours▪ 4 hours▪ 4 hours▪ 8 hours▪ 4 hours▪ 4 hours▪ 2 hours▪ 2 hours▪ 4 hours▪ 4 hours▪ 8 hours
Story B	<ul style="list-style-type: none">▪ Create a dialog object and show the form to add the contact details▪ Add functionality to add a photo for the contact▪ Write the logic to save the new details to the database	<ul style="list-style-type: none">▪ 8 hours▪ 4 hours▪ 4 hours
Story C	<ul style="list-style-type: none">▪ Show the dialog object in update mode to view/update the contact details.▪ Add functionality to change a photo for the contact▪ Write the logic to update the contact details on the database	<ul style="list-style-type: none">▪ 4 hours▪ 1 hour▪ 4 hours
Story D	<ul style="list-style-type: none">▪ Create a delete functionality for the database▪ Implement a delete contact feature on the Main Application dialog▪ Implement a delete button on the Modify record dialog	<ul style="list-style-type: none">▪ 4 hours▪ 2 hours▪ 2 hours

2. THE USER INTERFACE

The wireframes for the user interface are shown below.



Figure 2.1 The Welcome Frame

The Figure 2.1 shows the welcome screen when the application is fired up. The user presses the start button to continue to the main application where all the stored contacts are displayed.

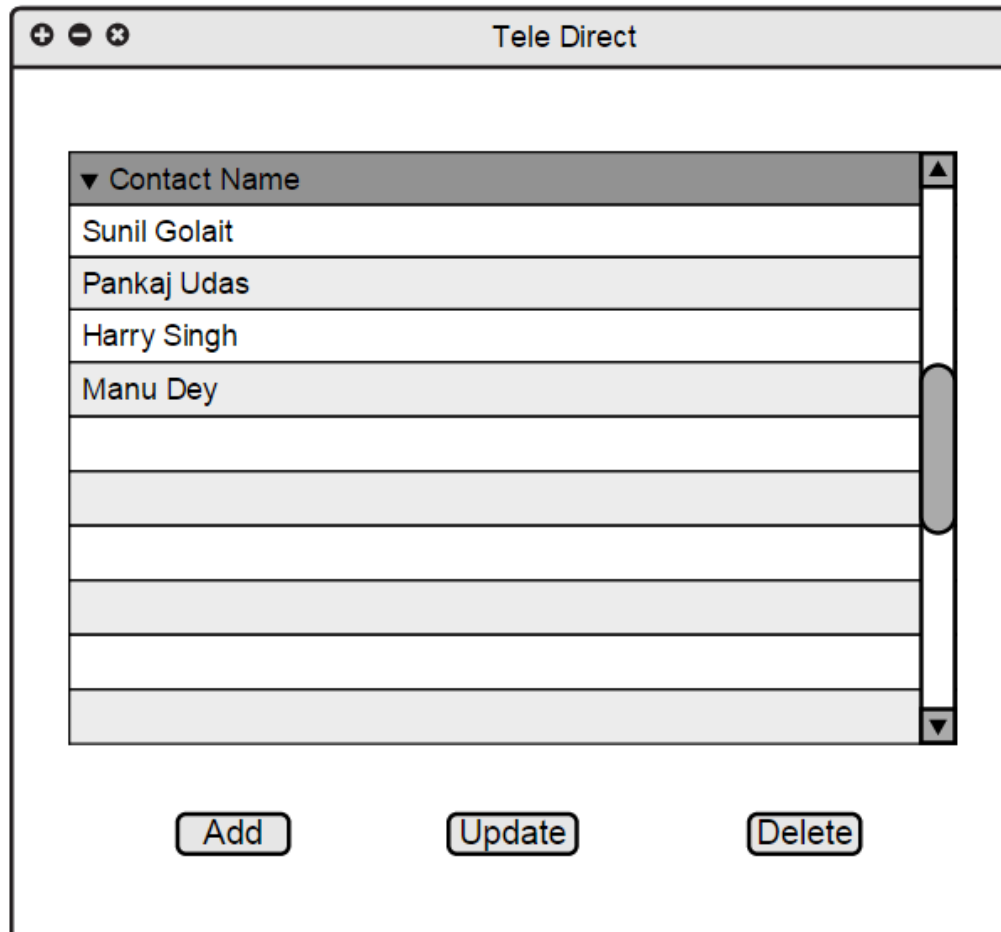
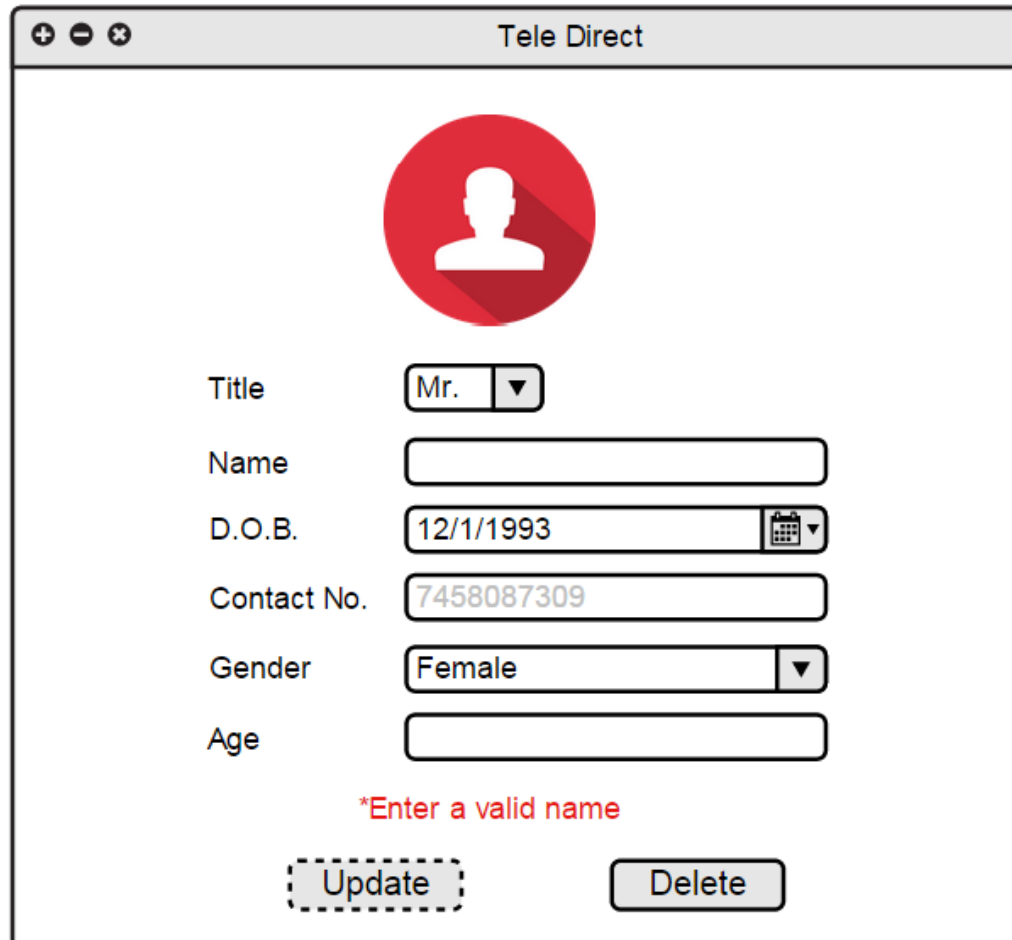


Figure 2.2 The Main Application Dialog

Figure 2.2 shows the **main application** dialog where all the contacts in the telephone directory are shown. The user is allowed to view, update, add or delete contacts. On double-clicking a record, the **Modify Record** dialog pops up where the user can update/delete the contact details.



The image shows a software dialog box titled "Tele Direct". At the top center is a red circular icon with a white silhouette of a person. Below this, the form contains the following fields and controls:

- Title:** A dropdown menu currently showing "Mr." with a downward arrow.
- Name:** A text input field.
- D.O.B.:** A date input field showing "12/1/1993" with a calendar icon and a dropdown arrow.
- Contact No.:** A text input field showing "7458087309".
- Gender:** A dropdown menu currently showing "Female" with a downward arrow.
- Age:** A text input field.

Below the form fields, there is a red error message: ***Enter a valid name**. At the bottom, there are two buttons: "Update" (which has a dashed border) and "Delete".

Figure 2.3 The Modify Record Dialog

In the **Modify Record** (Figure 2.3) dialog, the user can view the contact details, update the name, photo, contact number and other details as required. The user is also able to delete the particular contact after which the dialog closes and returns back to the Main Application dialog.

3. USE CASES

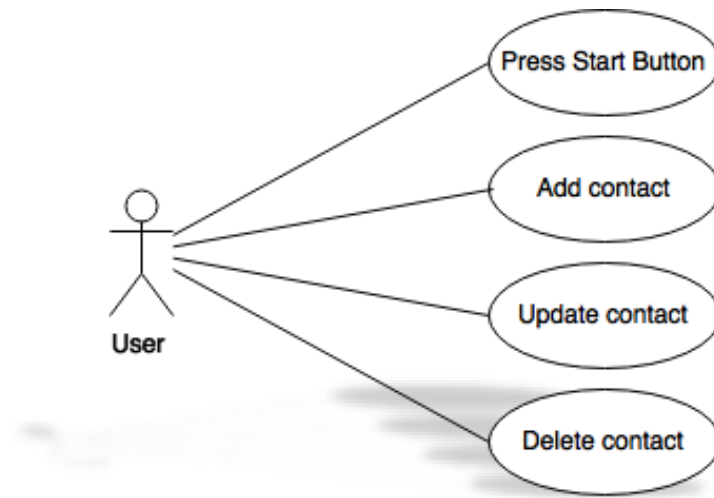


Figure 3.1 Diagram showing the user and the use cases

Figure 3.1 shows the various use cases for the user of the telephone directory application. The use case has been discussed in detail in the following Table 3.1.

Table 3.1 Use case details

Use Case	Details
Press Start Button	The pressing of start button takes the user to Main Application dialog where the user can perform CRUD operations on the telephone directory.
Add Contact	The user adds a new contact and its details to the telephone directory.
Update Contact	The user updates the title, name, d.o.b., contact number, gender, the photo and/or any other possible combination of the fields for a particular contact.
Delete Contact	The user deletes a contact from the telephone directory.

