

CONTACT MANAGEMENT SYSTEM

Overview:

The Contact Management System is a web based application that performs successful storing of a new contact, retrieval of contacts based on search key, modification of existing contacts and facilitates deletion of contacts.

Design

The application is built on Model-view- controller design. Model–view–controller (generally known as MVC) is a product plan pattern regularly utilized for creating UIs which partitions the related program rationale into three interconnected components. This is done to isolate inner portrayals of data from the manners in which data is introduced to and acknowledged by the client.

Model

- .It is the application's dynamic information structure, autonomous of the client.
- The **Contacts.java** file has the getters setters method to store and get the data from the back end.

View

- Any portrayal of data is called a view in MVC.
- There are two views used in the application, **ContactList.jsp** to show the view of the searched Contacts and **ContactForm.jsp** to get the Input from the user to create a new contact or edit an existing contact.

Controller

- Acknowledges information and changes over it to orders for the model or view.
- Acts as an intermediate between the model and controller and facilitates communication.
- **ContactServlet.java** acts as a controller that establishes communication between **ContactsDAO.java**, which is a Data Access Object and the view forms which are **ContactForm.jsp** and **ContactList.jsp**.

Data Access Object

- In the data access layer, the querying is done and it acts as an intermediate between **Contacts.java** and **ContactServlet.java**.
- Data access Object is important for retrieving, inserting, searching, editing and deleting the data. The **ContactsDAO.java** is connected to the database.

Data Object

The data object contains the table of data, which is mytable.sql in this application.

- The data access object is connected to the data object which facilitates querying.
- All the values are stored and a connection is provided to the code with the application to facilitate connection.

ASSUMPTIONS

All the operations are performed in a single normalized table that is used as Data object.