Name of the Project: Automatic Database Schema Generation

Vision

The Automatic Database Schema Generation is a system, which allows the developers to focus on creating the database using the GUI interface. The user needs to fulfill the requirements in the interface and he can perform the database operations which he wants and can create the database.

This project aims at creation of an automatic database schema generation. This project will be accessible to all developers and its facility allows developers to focus on creating the database schema on the basis of JSP while letting the application server define table based on the fields in JSP and relationships between them. This system provides the following facilities:

- This facilitates the user to focus much on application aspects leaving behind the database aspects.
- This project allows users to generate database schema generation without having much knowledge of database Aspects.

Deliverables / Functional Specifications

Modules

1) SQL Query Pane Module
   - Here we can type SQL queries and get the data from Database

2) Import Option Module
   - We can import .sql files only into the Database

3) Export Option Module
   - We can export sql Structure, sql Data or both based on some conditions into 3 types of files
     - .sql files
     - .html files
     - .csv files (Excel Files)

4) Operation Module
   - Here we can create table with constraints
     - Alter the existing table like
       - Alter column
       - Rename column
       - Drop column
       - Empty column

5) Search Database Module
   - Search based on keywords
     - Search looks for column names only
Search looks for data only

User Interface Requirements
Browser based

Database Requirements
Centralized

Integration Requirements
Web based Interface

Preferred Technologies

J2EE Technologies i.e JSP, Servlets

Front End : - Html, JavaScript and

BackEnd : - Oracle 8i/SQL-Server 2000

Hardware Requirement

Pentium 4 processor with 256 MB RAM, 40 GB Hard disk