

DBMS Lab Assignment 4:

Web Based Information System Design

The goal of this project is to build a complete web based information system having a backend database, a connectivity server, front end scripts and finally a form based web interface. Any database server/scripting language can be used to build the system. However, the use of a database and scripts are compulsory. The information system to be built is a:

Gram Panchayat Management System

Objective:

- i. Web based application to manage the functioning of a Gram Panchayat
- ii. Panchayat employees can enter, modify and query data. Citizens should obtain information related to their village but will not be able to modify data. Government agencies would seek reports about various aspects of the village, like, agriculture, health, education, welfare schemes.

A similar website can be accessed here: <https://egramswaraj.gov.in/>

Users of the System: A. System Administrator B. Panchayat employees C. Citizens D. Government monitors

Functional Requirements:

- i. The system must provide an entry page which will be the home page after login. The entry page would display various menu based on category of the user.
- ii. The system should provide a user registration module
- iii. The allow employees to modify suitable data
- iv. The system should allow citizens to obtain various information
- v. The system should have provision for reporting statistics to government monitors

Group size: At most 5 students per group. Time: 3 week. ER Diagram to be submitted by next week.

Submissions:

- i. Demonstration of the project in Lab.
- ii. A report consisting of:
 - a. Name and roll number of group members
 - b. ER Diagram
 - c. Table Schema
 - d. List of functionalities implemented
 - e. List of front-end tools used