

# **Internet and Web Programming (CSE3002)**

## **Lab Management System**

### **Group Members:**

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This is a project on VIT's Lab Management System. The objective of this project is to develop a website having the details of all the labs in VIT Chennai. The database contains details of the labs including the lab slots, lab timings, name and contact details of the lab in charge and the lab assistant.

### **Home page:**

The home page of the website allows the user to search by class number or the lab slots.

The user would be able to search by class number using a drop-down list of the available lab classes and this would display the particular lab's timetable.

Searching by slots option displays the general timetable from which the user can select the slots. Clicking on a slot displays the details of each lab including the name of the block, class number, lab in-charge and lab assistant in that particular slot. And again, clicking on the lab in-charge or lab assistant displays their contact details.

### **Implementation:**

The home page is implemented using forms in html and get method transfers the user data.

When a slot is selected, the control is transferred to a php file which displays the timetable. The control transfer from the

selected slot to the details is done using image mapping. The details from the database are displayed.

When class number is selected, the timetable is displayed using table tag with details from the database.

## **Database:**

The database is created using mySQL. It consists of two tables.

The first table has details of block, class number, lab in-charge name, lab in-charge contact number, lab in-charge mail id, lab assistant name, lab assistant contact number and lab assistant mail-id. Block and class number is made as the primary key. The other attributes are made not NULL.

The second table has details of block, class number and slots (l1, l3, l5, ..., l59). Block and class number is the primary key. A constraint is added to make the block and class number as foreign keys from table 1. By default, all the slot is set to NULL.