

CS 257 Database and Information Systems Lab

Apr 2021

Lab Assignment 3: Application Design and Development

Marks: 60

This assignment can be done in groups.

Start Date: 13.04.2021

Submission Deadline: 16.04.2021 10:00 am

NOTE: For late submissions, 10% is deducted for each day (including weekend) late after an assignment is due.

Consider the ER model that you designed for Assignment 2. (You should take your own design, and not borrow any other design; this will be verified).

Assignment Tasks

Part A (10 marks): Normalize your relational schema to one of the standard normal forms (3NF or BCNF). Briefly describe (in not more than 3-4 sentences) on why you decided on the chosen normal form.

Part B (50 marks): Implement a simple website with a HTML interface that can be used by the IIT Indore library, satisfying the features specified in Assignment 2. You can use Python, Flask, CSS, Javascript for your implementation, based on your choice.

Please plan to submit your files as a **single zip file** through Google Classroom. You should name your file as your **roll_numbers & GroupID.zip**. You should also include your normalized design as a PDF file in this zip file.