

Project Code	Project Coordinator (TAs)	Project Coordinator (Ph.D.)	Project Name	Project Description	Database aspects it will cover
DBS_PR_01	Sanskar Jhajharia	Upendra Singh	Blood Bank Management System	Building on a database system wherein any user can fill in their details for being a potential blood donor. People seeking for blood can also fill a different form. based on the city and blood group, the potential donors and recepients can be matched	Updates + selective querying into databases, front end + back end
DBS_PR_02			Library Management System	Working on a typical Library Database with records for books, journals, and other library facilities (brain storming room booking). They would also be expected to help in dues calculation and raising appropriate flags.	Concurrency, Updations and querying, front end + back end
DBS_PR_03	Gautam Bhambhani		Visualising the DNS Server	This is based on the understanding of how the DNS protocoll works with converting the URLs to reselective IPs. The students will be expected to create a database that models the DNS server links (From Root Server to TLD server and then the respective Authoritative DNS to get the corresponding IP for a URL). They will be required to also learn the process how a new URL is inserted into the database	Concepts of DNS, Querying into one databse based on response of other, Iterative + Recursive queries
DBS_PR_04			Live auction application	Creating a live aution application where multiple users can login at the same time and place bet on certain items with conventional auction rules.	Concurrency , tranactions , views , non - relations DBMS, frontend + backend application
DBS_PR_05	Khyati Mehta		Research Practice Management Portal	Basically for Research Practice course every student have to check profiles of all professors and they have to go through the projects that are mention there.Sometimes sites are also not updated according to current project in which professors are working on.So Basically this projects maintain database that contains professors name ,projects on which they work,projects on which they need students to work on.It will also save status of projects.	concurrency,views,queryin g,front end -backend
DBS_PR_06			Hospital Management System	Hospitals interact with a lot of people in a day and there are various activities involved in day to day operations of hospitals, for example booking of appointments, managing doctor schedules, managing patient diagnoses, managing medical histories of patients,reports etc.	ER modelling,Concurrency,vie ws,front end,back end

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DBS_PR_07	Pravin Kumar Saha	Trishna Paul	Laundry Management System	Here the admin of the store will keep records of all the users , and simultaneously will update the status of the clothes as per availability which will scale scale the business of laundry for the owner	ER modelling, views, concurrency, front-end
DBS_PR_08			Scholarship Help System	A platform where we can register various scholarships available for being availed; Students can fill in their details and based on that detail and eligibility criteria, the relevant open scholarships should come up	Concurrency, Joins, Updates, queries, Frontend-backend
DBS_PR_09	Punit Maheshwari		Movie ticket booking system	A platform where people can book and cancel their movie tickets. Concurrency should be taken care for different user selecting same seat and update and delete the seats occupied and cancelled.	Concurrency, Updates , Frontend and Backend
DBS_PR_10			Car Rental System	A platform for renting cars (can be extended to anything) where users can rent a car depending on the number of cars available and a waiting list for the users need.	Updates, Queries, Frontend , Backend
DBS_PR_11	Raghav Chaudhary		Air Traffic Control system	A traffic control system in which planes will mention their expected time to arrive at the airport and airport mangement has to ensure that there should be no collision while landing so there should be sufficient gap of atleast 5 minutes between arrival of any two flights. Pilots will concurrently update the database continuously and there should be no collisions	Concurrency, Updates, queries, Frontend-backend
DBS_PR_12			Trading Platform	A platform where people can sell and buy stocks and other derivatives where they can state their own price and information of individual and total stocks needs to be maintined	Concurrency, Updates, transactions, queries, Frontend-backend

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DBS_PR_13	Chirag Wadhwa	Jaya Pathak	Live Online Test Conducting Portal	A dynamic platform where multiple stdents can attempt a test. The dabase maintains the identification of the students, their marks, leaderboard, questions assigned to the students, their marks, etc	Concurrency, Frontend, Backend
DBS_PR_14			Live Train Running Status	Addressing one of the most common issue in Indian Transportation :- Maintaining database of train stations, possible routes (graphs can be used), trains between relevant stations, their ETA and EDA, And their live runnign status	Concurrency, Views, Minute ER specifications, front end+back end
DBS_PR_15	Mehul Sachdeva		Hostel Management Portal	The expectation here is to build on a database system that can help in hostel room allotment systems. The students can fill in their preferences for which hostels they prefer and indicate the members of their wing. The database should accept all of this and then randomly allot a wing from the hostels allocated. Internally within a wing, any random room allotment is allowed	Concurrency, Views, front end - backend
DBS_PR_16			The Addition - Substitution-Withdrawal Portal	Basically a very BITSian thing to add/substitutue the courses. They will have multiple relations that will hold items like current enrollment, sections open. number of students expected in each class, etc. They will take prefs for addition/ substitution and then allot such classes based on availability and other constraints	Concurrency, Views, Querying, Frontend
DBS_PR_17	Shekhar Jha		Personal finance management	The idea here is to build a database system that can maintain information of total cash flow. There can be tables for each bank account, total monthly and weekly expenses and so on, then these can be joined together to get the high level idea. In this a person can maintain its own financial informations, account balance across multiple bank accounts, all the investments made, total worth. In addition to that, credit and debit informations for each account.	Joins, physical and logical view, updates, queries, basic or miniature ERP like system
DBS_PR_18			Password Manager with Authentication	A Password manager to store all usernames, emails, passwords, notes, and memo. All the passwords would be stored as AES encryption. Only after authentication, the password would be accessible and can be directly copied to the clipboard. And a global password/AdminAccount to decrypt for the worst case scenerios.	Storage and Updates, queries, encryption and hashing, frontend + backend
DBS_PR_19			A Matrimonial Site Database	Filling in details of potential brides + grooms;Taking in preferences ; Filtering out results as per user specification; Viewing the same	Updates + selective querying into databases, front end + back end