

NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

CS3005 – Software Design & Architecture Lab

LAB Instructors: Sobia Iftikhar “Sobia.iftikhar@nu.edu.pk”

Lab 10 Task

Task-01

Analysis and Design the Deployment Diagram given For hotel management system.

You need to design a deployment diagram for the hotel management system, Make sure your deployment diagram shows the actual view of client server architecture.

For suppose at the client side there is “client workstation” as an entity for performing the multiple operations, this entity needs some working environment to implement as the “operating system” operating system needs to implement another execution environment to run the multiple components. This (execution environment) EE is named as “HotelManagementwebBrowser”. and there are multiple components that will be deployed in this environment. like (Guest, Employee, SPA, Restaurant, Room Services, Payment Method.)

Now at the other side we have two other components that show physical appearance and support to client workstation, named as (Bank and DB-Server).

Database required db.sql file to maintain the execution. And Bank itself has another physical entity called bank-server, bank server needs environment to deploy the multiple components called Mw (Management Website), this website deploy fund transaction component.

Task 02

Draw a deployment diagram for the University Information System to show the actual view of client server architecture.

An application server containing web applications and web services like StudentManagement.jar, TeachersManagement.war and SalaryCheck.ear to respond requests of clients from the browser running on the client computers for web pages or other web based services.

The client device “PC” contains HTML 5 artifact, and the database server holds the Database Management System (DBMS) “MySQL” and the databases. Upon requests from the client machines, it searches the database for selected records and passes them back over the network, TCP/IP is used as communication protocol.

Task 03

Before Entering the collage field of selection is one the basic risky decision, you must look inside and outside market demand of the field that you are choosing, and make sure that will also match with your knowledge. For that reason, many universities yearly update their offered programs, and provide proper

Web Portal for every coming student, that Web portal provide the list of fields for the student's selection purpose,

Suppose we need to discuss possible state of Field Enrollment, that student must face before applying. This system suppose to be for first check the offered programs and he/she can enroll him self in multiple subjects if seats are available.

New Applicant can inquired the state of fields, this state shows the category of fields. When user select field system will check the availability of more seats if found then he can go for enrollment, but if not found then system will again for proposed state. For the enrollment state of system required Details, if seats are not available then system will directly go for cancel state but if more seats are available then more forms can be filled. have to chose field.

Task 04

Now a days travelling is very easy, it does not matter where are you, you can easily call a driver using mobile application to reach at your destiny. There is serval application that provide the services of car booking. (uber, careem)

Careem is a vehicle for hire company which is a subsidiary of American company Uber Let's define the state of car service that is provided by CreamApp.

There is two sections, captain and customer, captain start his job from "ontheWaytoStop" and pick the passenger now he drops the customer and request for payment.

Other side passenger run concurrent state, he will login and then authorize by admin and apply for RideBooking. If RideBooking not goes successful, then booking will be canceled