SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE	DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Program Name: B. Tech	**Assignment Type: Lab**	**Academic Year:** 2025-26
Course Coordinator Name	Dr.Mohammed Ali Shaik	
Instructor(s) Name	Dr. Mohammed Ali Shaik Dr. R Vijaya Prakash Dr. Venkatesh Naramula Mr. K Sudheer Kumar Ms. Mada Mounika Ms. Velpula Sumalatha Mr. G Kranthi Ms. M.Madhuri	
Course Code	23CS102PE405	**Course Title** DEVOPS AND FULLSTACK
Year/Sem	III/II	**Regulation** R23
Date and Day of Assignment	12/01/2026	**Time(s)** 01:00PM -05:00PM
Duration	2 Hours	**Applicable to Batches**
Assignment Number: 3/24(week 2) Monday AN		

Q. No.	Question	Expected Time to complete
2	**Scenario:** An e-commerce company is developing a **Product Management System**. The application must store product details permanently and allow administrators to perform CRUD operations using a **database (MongoDB/MySQL).Questions:** 1.How would you design RESTful endpoints for managing products (e.g., /products)? 2.How does database integration change the implementation of **Create and Read** operations? 3.How would you handle **validation errors** when incorrect data is sent by the client? 4.How can you implement **Update (PUT/PATCH)** operations efficiently in a database-backed API? 5.What strategies would you use to handle **record not found** scenarios during Read or Delete operations?	