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Department: Information technology

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Phase : Phase 2 Technology

Project Name : Interactive Form Validation

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INTRODUCTION

- The project Form is a structured data collection and management system.
- The purpose of Phase 2 is to design the solution architecture for the project.
- Key objectives:
 - Select the technology stack
 - Define UI structure and API schema
 - Plan data handling approach
 - Create diagrams for components and workflow

TECH STACK SELECTION

1)Frontend:

HTML, CSS, JavaScript (React)

2)Backend:

Node.js with Express framework

3)Database:

MongoDB or MySQL

4)Version Control:

GitHub

5)Deployment Platform:

IBM Cloud / Heroku

UI STRUCTURE & API SCHEMA

UI Structure:

- Simple form with input fields for data collection
- Client-side validation to ensure correct entries
- Submit button for sending data

API Schema:

- POST /submit Form → Save form data
- GET /get Forms → Retrieve stored form data
- PUT /update Form/:id → Update existing form entry
- DELETE /delete Form/:id → Delete form entry

DATA HANDLING APPROACH

Frontend:

- State management using React Hooks / Context API

Backend:

- REST API processes client requests and communicates with database

Database:

- Stores submitted form entries in structured format

Validation:

- Both client-side (in UI) and server-side (API level)

COMPONENT / MODULE DIAGRAM

1) Frontend Module:

Form UI, validation of inputs

2) API Module:

Provides endpoints for CRUD operations

3) Database Module:

Handles data storage and retrieval

BASIC FLOW DIAGRAM

- User fills the form in UI
- Data is sent to the backend API
- API processes and stores data in the database
- Response is sent back to the user (success or error message)

The background is a light pink color. A darker pink rounded rectangle is centered on the page. In the top right corner, there are several concentric, curved lines in a medium pink shade. In the bottom left corner, there are several concentric, curved lines in a medium pink shade, along with a solid pink shape. The text "THANK YOU" is centered within the rounded rectangle.

THANK YOU