#### Bapuji Educational Association (Regd.)

#### Bapuji Institute of Engineering and Technology, Davangere

# **Department of Information Science and Engineering**

# Academic Year:2024-25

# Full Stack Development (BIS601)

#### **Hands-on Session**

# 1.Objective:

To enrich the practical knowledge on MERN components with hands-on experience in Full Stack Web Development.

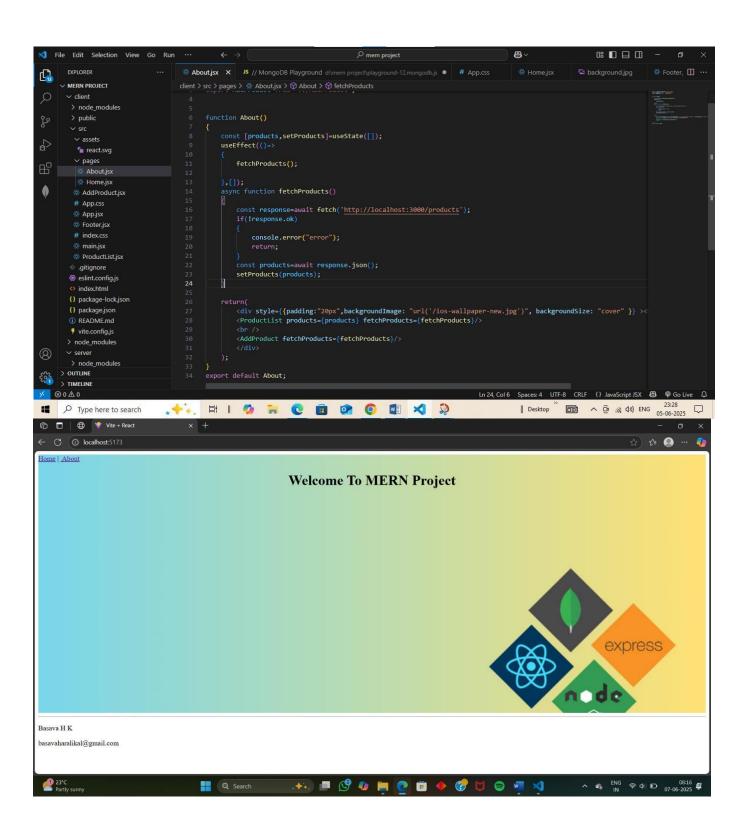
This intensive one-day session is designed to introduce students the core concepts of Full Stack Development. By the end of the session, participants will have built a basic full-stack application using HTML, CSS, JavaScript (Frontend) and Node.js with Express and Mongo DB (Backend).

### 2. Topics Covered:

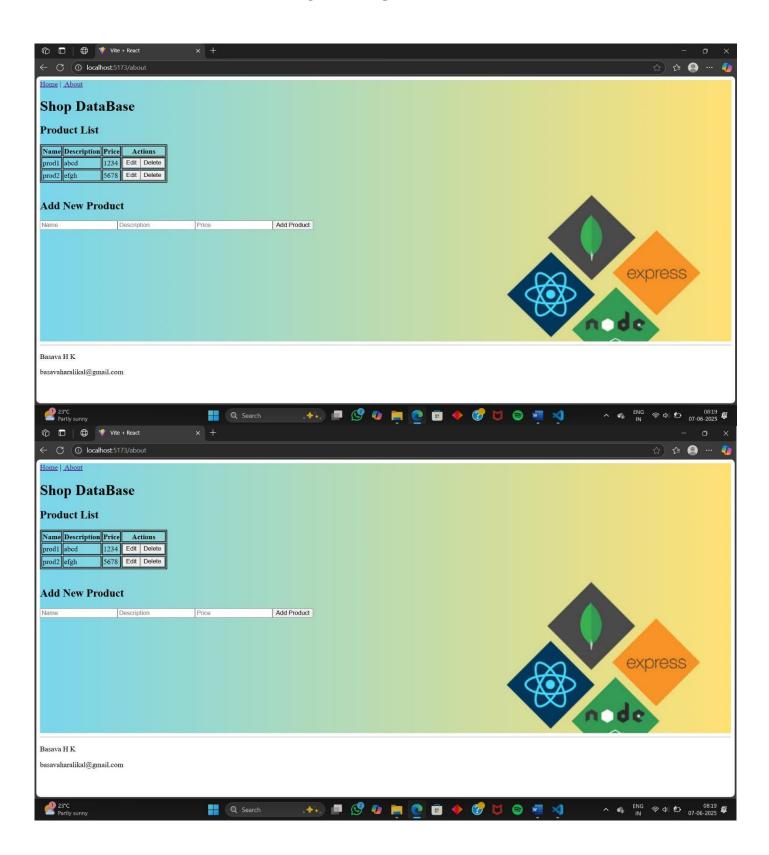
- Introduction to Full Stack Development
- Frontend Basics: HTML, CSS, JavaScript
- Backend Setup: Node.js, Express
- Database Integration: Mongo DB Basics
- Connecting Frontend and Backend
- Mini Project Development and Completion



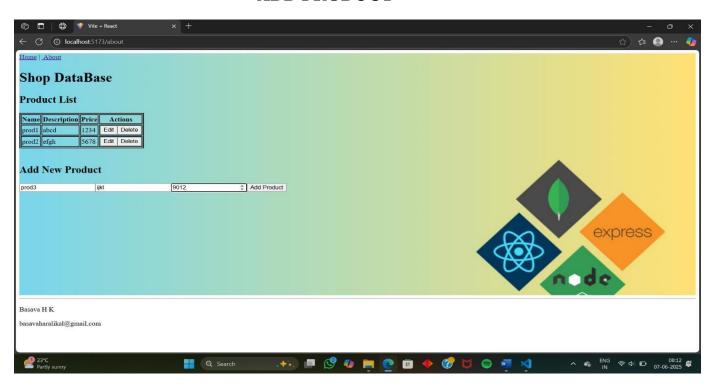
#### 3. Implementation

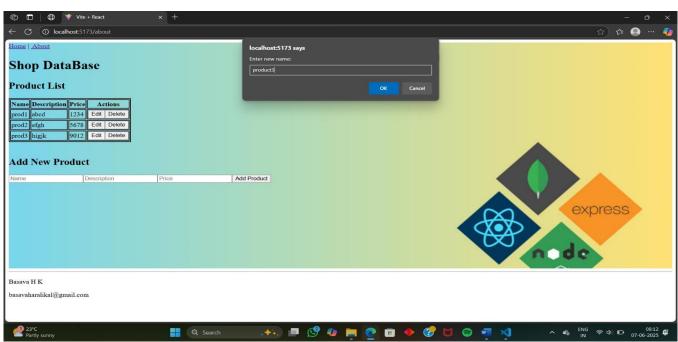


#### **HOME PAGE**

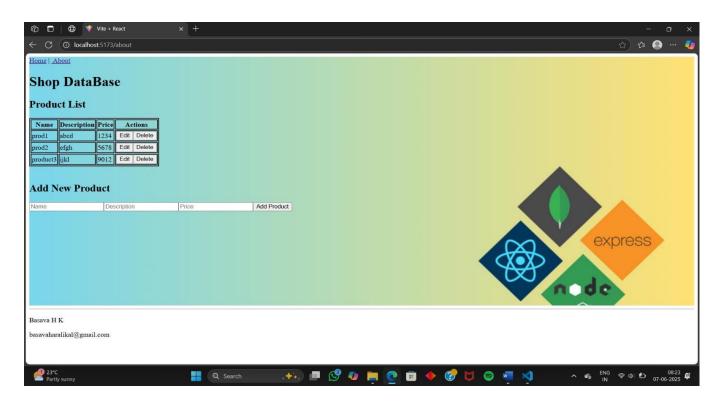


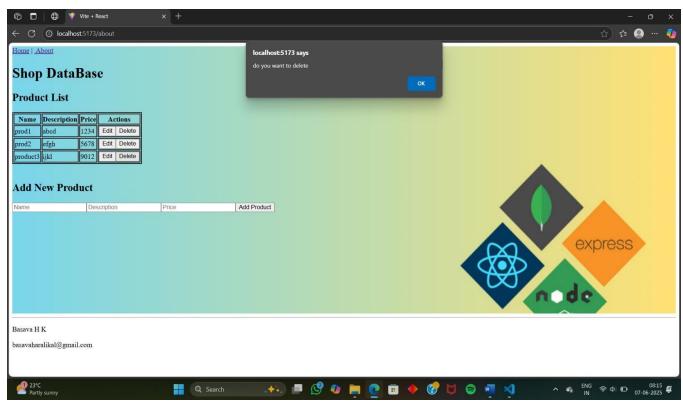
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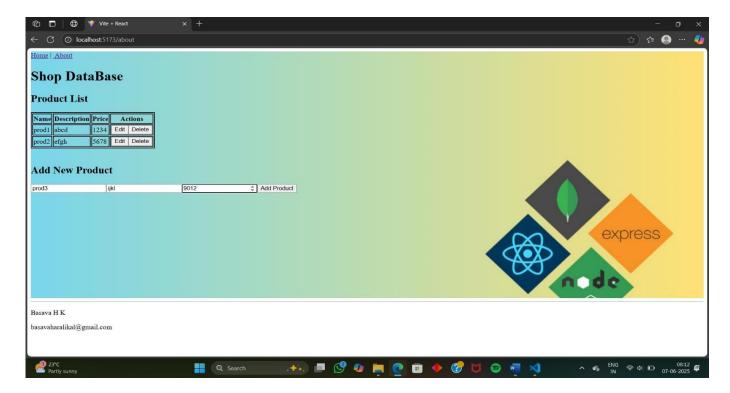


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#### 4. Outcome:

After this Hands-on session, students are able to apply MERN (MongoDB, Express.js, React.js, Node.js) components to develop a web application. Successfully implemented CRUD operations with RESTful APIs.

**B** Course Coordinator R. program Coordinator