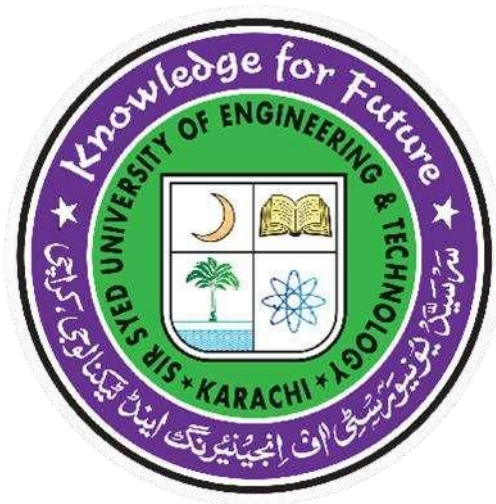


**WEB TECHNOLOGIES LAB
(316L)**

SEMESTER PROJECT

5th Semester Fall

Course Instructor: Sir Rahil



Project Title: PrimeBiz Solutions – Business Website with Contact Form Backend

Team Member(s):

Faris → 2023F-BCS-212

Section: D

Computer Science Department

Sir Syed University Of Engineering And Technology

Project Report

Project Title

PrimeBiz Solutions – Business Website with Contact Form Backend

Introduction

This project is a simple business website for a company named **PrimeBiz Solutions**. It contains multiple pages such as Home, Services, Products, Pricing, About, Blog, and Contact. The main feature of the project is a **Contact Form** that allows users to send messages. These messages are stored using a **Node.js backend**.

Objectives

- Create a clean and responsive business website.
- Provide information about services and products.
- Add a working contact form.
- Save submitted messages on the server.
- Demonstrate basic frontend and backend integration.

Technologies Used

- **HTML** – structure of web pages
- **CSS** – styling and layout
- **JavaScript** – frontend interactivity

- **Node.js + Express.js** – backend server
- **File System (messages.txt)** – simple data storage

System Overview

The system has two main parts:

1. Frontend (website pages)

- User interface
- Contact form
- Navigation menu

2. Backend (Node.js server)

- Receives form data
- Saves messages to a file
- Sends response back to user

How the System Works

1. User opens the website.
2. User goes to **contact page**.
3. User fills **name, email, and message**.

4. When user clicks **Submit**:
 - Data is sent to backend using **POST request**.
5. Backend receives data and stores it into **messages.txt** file.
6. User gets success message on screen.

Database / Storage

This project does not use a real database like MySQL or MongoDB. Instead, it uses a simple file:

- **messages.txt**
- Every new message is stored as text with name, email, and message.

Features

- Multiple static pages
- Responsive website design
- Auto image slider
- Testimonial rotation
- Contact form validation
- Node.js backend connection
- Message storage in file

How to Run the Project

1. Open the project folder in VS Code.
2. Install dependencies:
 - npm install
3. Start backend server:
 - npm start
4. Open HTML files in browser or go to:
 - <http://localhost:3000>

Testing

- Correct details entered → message saved successfully
- Empty fields → validation alert
- Multiple messages → all stored in file
- Server stop → form will not submit

Limitations

- No real database system
- No admin dashboard

- Messages file can grow large
- No email notification system

Future Improvements

- Add MongoDB or MySQL database
- Create admin panel to read messages
- Add login system
- Add email sending feature
- Add mobile app support

Conclusion

This project successfully demonstrates how a simple business website can be connected with a backend server. It shows complete flow from **frontend form submission** to **backend storage**. It is useful for learning **full-stack web development basics**.