



## CASE STUDY –MERN STACK BATCH

### 1. Project Requirements:

A company requires a B2C Web Portal to collect the data about its customers through MERN STACK based web portal. For this purpose, the data needs to be collected from various resources. The data needs to be maintained at a centralized location so that it is available to various sections including the Accounts and the Sales sections of various branches, regardless of the hardware and software platforms being used at the branches. It also needs to verify that the valid data is stored in a mongoDB.

The data to be stored includes customer ID, first name, last name, and contact information, such as address and phone number. A customer may specify residential or official contact information.

Company wants to display the details of all customers. The details that have to be displayed are FIRSTNAME, LASTNAME, ADDRESS, and PHONE.

The customer details must be available in MongoDB & registered user details should be display in the tabular structure.

Company needs to display a summarized report about customers.

### Features:

- At least 5 menu options required with the Web Portal
- Some menu option should have sub menu
- Web portal should be with JQuery or java script based slider
- Web portal should be based on Single page Application (SPA)

- Contact Us part should be with google map & REACT Form
- Use the MERN based CRUD operation the manage the records
- Identify the fields & Attributes required for storing structured data
- Identify the method for storing consistent data
- Create Webform (REACT Form) to store data.
- The elements required for storing details about customers are:
  - i. FIRSTNAME
  - ii. LASTNAME
  - iii. RESIDENCE ADDRESS
  - iv. OFFICE ADDRESS
  - v. PHONE
- Validate the Webform as REACT FORM to get the required data
- Identify the method for declaring fields to be used for storing structured data
- Identify the method to validate the structure of data.
- Identify the mechanism to restrict the values that can be assigned to an attribute. .
- Identify a mechanism to display summarized data.
- Featured Product should display separate
- Manage The User profiles
- Web Portal should be SEO compatible
- Web portal should be compatible all browsers & Web portal should be compatible with older browser.
- The Web portal should be Mobile friendly and responsive