

# Project Design Phase

## Problem – Solution Fit Template

### Project setup and configuration.

#### ✓ Folder setup:

Now, firstly create the folders for frontend and backend to write the respective code and install the essential libraries.

- Client folders.
- Server folders

#### ✓ Installation of required tools:

1. Open the frontend folder to install necessary tools for frontend, we use:

- **React:**

A JavaScript library for building user interfaces, especially single-page applications.

- **Bootstrap:**

A CSS framework for responsive design and pre-styled UI components.

- **Material UI:**

A React component library that implements Google's Material Design.

- **Axios:**

A promise-based HTTP client for making API requests.

- **React-bootstrap:**

A React-specific version of Bootstrap components

2. Open the backend folder to install tools

for backend, we use:

- **Express JS:**

JavaScript runtime that lets you run JS on the server.

- **Node JS:**

A lightweight web framework built on top of Node.js.

- **MongoDB:**

A NoSQL database that stores data in flexible, JSON-like documents

- **Cors:**

A middleware that enables or restricts resources on a web page to be requested from another domain.

- **Bcrypt:**

A library for hashing passwords.

- **Mongoose:**

An ODM (Object Data Modeling) library for MongoDB and Node.js.

