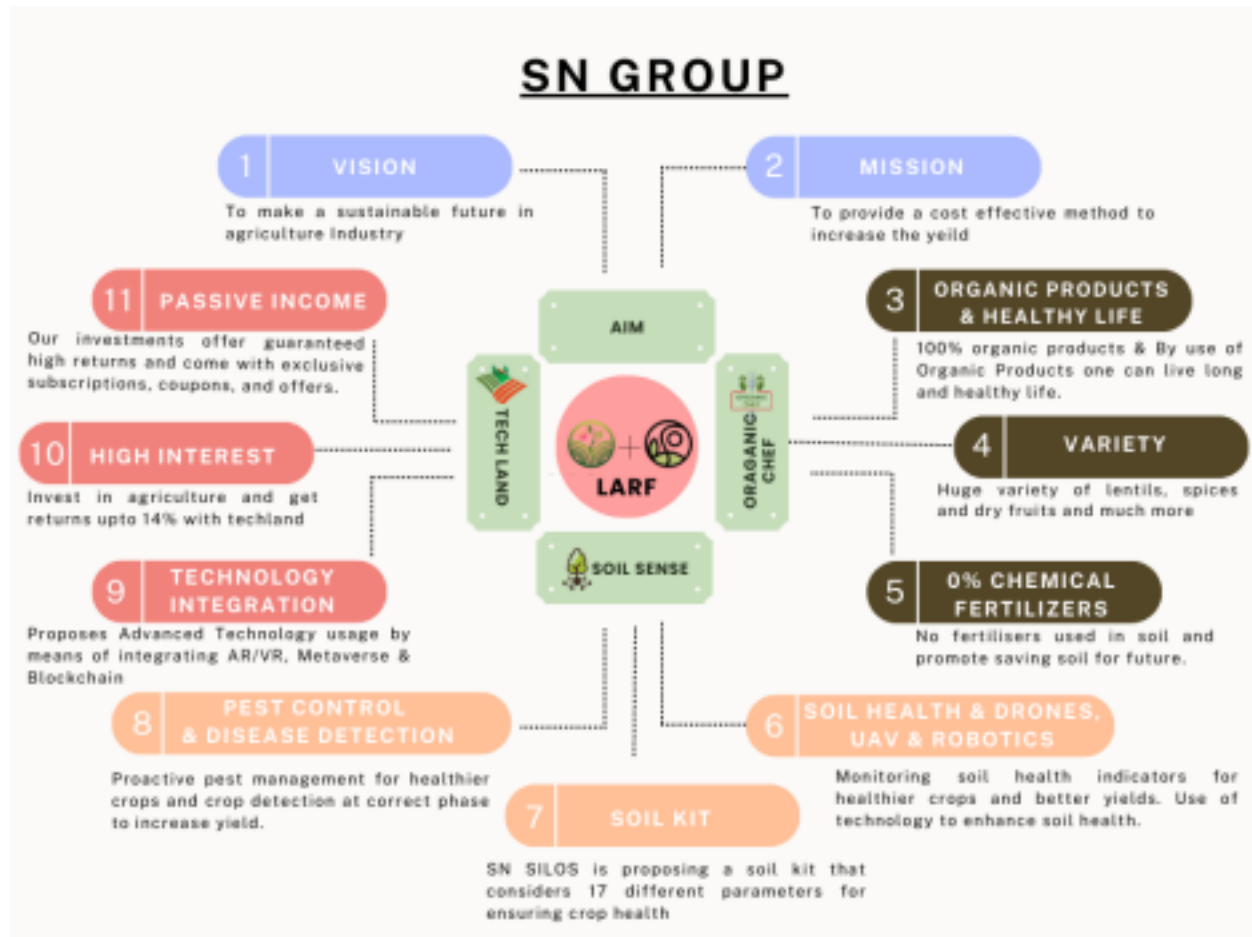


# Assignment Document

Date: 17th August 2023

## 1. About Company & Brands:



Dear Candidate,  
Here are the assignment details below.

### The task to be Done:

- Create a RESTful API for a simple e-commerce application using Node.js, Express.js, and MongoDB.
- The API should have the following features:

### 1. User Management:

- Register a new user.
- Authenticate user login.
- Retrieve user profile.
- Update user profile.

### 2. Product Management:

- Create a new product.
- Retrieve a list of products.
- Retrieve a single product by ID.
- Update a product.
- Delete a product.

### 3. Cart Management:

- Add a product to the user's cart.
- Remove a product from the user's cart.
- Retrieve the user's cart with the list of products.

### **Requirements:**

- You must have experience with Node.js, Express.js, and MongoDB.
- You should implement proper error handling and validation.
- You should use best practices for API development, including RESTful principles.
- You should handle authentication and authorization for protected routes.
- You should include appropriate API documentation (e.g., Swagger, Postman).

### **Deadline:**

- The assignment is due on 20th August 2023 at 11:59 P.M.

### **Video:**

- Video explaining project in detail.

**Submission:**

Please submit your assignment by sending a GitHub repository link. The repository should include the following:

- The source code for the API.
- Any additional files or instructions required to run the API.
- A README file that describes the API and provides instructions on how to set it up and test it.
- You can also create a short video to explain your work (you can put the videos in Google Drive and share the link).

**Grading:**

Your assignment will be graded based on the following criteria:

- Correctness of the code and API implementation.
- Proper error handling and validation.
- Proper authentication and authorization.
- API documentation.
- The overall quality of the work.

**Bonus:**

I hope this assignment is challenging and rewarding. You can incorporate the following into your assignment for bonus points:

- Implement search functionality for products.
- Implement pagination for retrieving a list of products.
- Implement filtering and sorting options for retrieving products.

Good luck with your assignment! I look forward to reviewing your work.

