# Node Assignment

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#### Objective

Following are the learning objectives of this assignment

- Understand and Implement Clean Architecture
- Implement REST services using Node is
- Secure API s using a 3rd party auth provider (AWS Cognito, Auth0, Firebase)
- Understand and implement exception and error handling
- Understand and implement exception and error logging
- Implement automated unit testing
- Run code analysis & fix tech defects (SonarQube)

#### **Assignment**

Please create an Online shopping store. Some of the below features are key to the shopping operation. Make sure to cover these features in your application

**Key Features** 

The customer must be able to

- → register
- → login
- → View product/categories
- → Add products to the cart
- → Remove/Modify products in the cart
- → View the cart
- → Checkout
- → Receive the invoice to his email
- → View the previous purchases/ History

### Tools & Technologies to be used

#### **Backend**

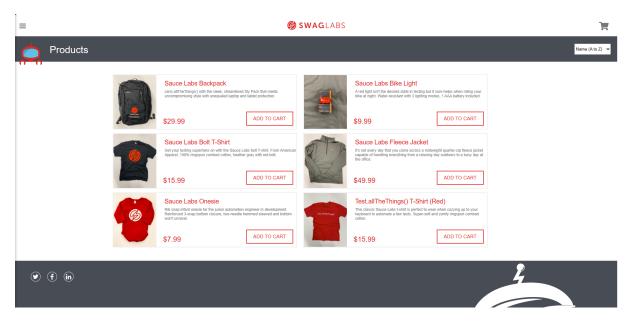
- Express.JS (Typescript)
- Database SQL
- Auth cognito, firebase or Auth0

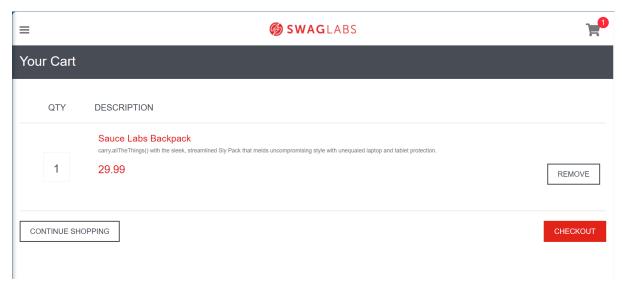
- Unit testing Jest
- Code quality Sonarqube
- Cache Redis (if needed)
- Containerization Docker (optional)
- Design Patterns Use appropriate design patterns wherever it is possible

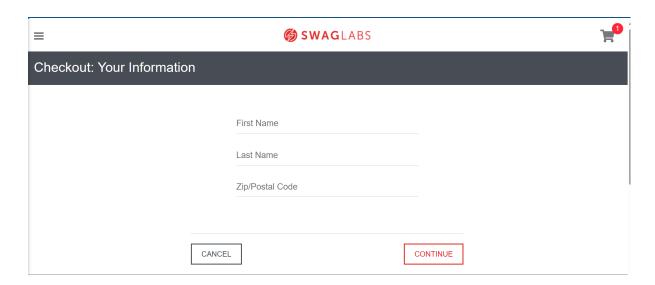
#### Frontend

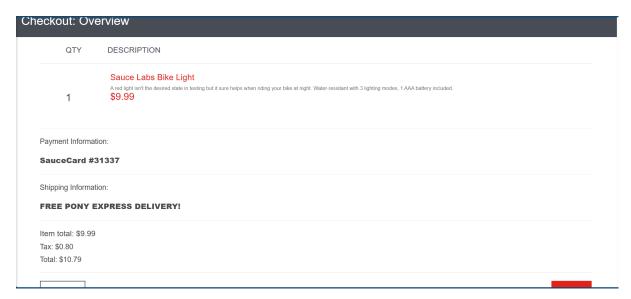
- React with TS
- State management React hooks, Redux or any other framework
- Styling Bootstrap, Tailwind, Material UI, SASS

## Sample UI









Example application - <u>saucedemo.com</u>

### Key Responsibilities

- 1. Send daily update to the lead with your progress
- 2. Api design document
  - a. Request type
  - b. Request Url
  - c. Request payload
  - d. Response payload
  - e. Response http status codes
- 3. Prepare approach document (DSTD) with diagrams i.e. Architecture, sequence, Database design
- 4. Estimates and the plan
- 5. Prepare weekly demo on every Thursday or Friday
- 6. Come up with dates for interim and final delivery for your application
- 7. Code needs to be maintained in your own GIT repository
- 8. Design, Estimation ,Reviews related documents needs to be maintained One Drive.