[Nagarro]-[Amcart]

DAR Document

Nagarro Software Pvt. Ltd.

<Shubham >

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| **Revision History** | | | |
| Version | Date | Author/Contributor | Comments |
| 0.1 | 10-12-2023 | Shubham Agrawal | Initial Draft |
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# Introduction

This is an online shopping website, which can be used to purchase the clothes for both men and women.

## Objective and scope of document

The objective is to design online clothes shopping website for women and men.

Design should be technology agnostic.

# Requirements at a Glance

Various functional modules that will be implemented by the system will be -

• **Login**: Customer log -in into the system by entering valid user id and password for the

shopping.

• **Registration**: Customer needs to be registered to log-in into the application and buy

products

• **Administrator Page**: The administrator should be able to add, update and remove items.

• **Search or choose product**: Customers should be able to search for products.

• **Product Catalog**: This should display a list of products available on site for shopping.

• **Sale**: The products available in this section will have special discount offers.

• **Stock**: Site should be able to check the availability of products.

• **Price**: System should keep check on displayed price.

**• Add to cart**: Direct functionality of adding product to cart should be possible.

• **Payment**: For customer there are many types of secure billing will be direct bank transfer,

check or bank draft. The security will be provided by the third party like Pay-Pal etc.

• **Order Confirmation**: After the payment or surf the product the customer will logged out and

an email will be sent to him.

# Available tools

* **Angular**
* **React**

## Angular

Angular is a free, open-source web application framework built with TypeScript. Developed by the Angular Team at Google and a community of contributors, it serves as a Single Page Application (SPA) Framework. SPAs load the UI at the start of the application request, and subsequently, only data is requested, contributing to the swift performance of web applications created with Angular.

## React

React is a free, open-source front-end JavaScript library designed for constructing user interfaces through a component-based approach. It serves as a foundation for developing single-page, mobile, or server-rendered applications, often in conjunction with frameworks such as Next.js.

# Comparison Analysis

Below is the DAR comparison for the architecture type for various factors.

## Weightage Matrix

<point assignment as per features>

|  |  |
| --- | --- |
| Feature | Points |
| Tooling and CLI | 25 |
| Architecture | 25 |
| Language | 25 |
| Scalability | 25 |
| Flexibility | 25 |

## Comparison Table

|  |  |  |  |
| --- | --- | --- | --- |
| Aspect | Angular | React | Justification |
| Tooling and CLI | 20 | 12 | Angular CLI is comprehensive and integrated, streamlining development. |
| **Architecture** | 16 | 12 | Angular provides a more opinionated and comprehensive structure, promoting consistency in larger projects. |
| **Language** | 16 | 12 | TypeScript in Angular enhances code quality and error detection. |
| **Scalability** | 16 | 16 | Angular is well-suited for large enterprise-level applications. |
| **Flexibility** | 8 | 16 | While Angular is less flexible, this ensures a more consistent codebase. |

# Recommendation

From the comparison we can see that the **Angular** will be best suited to our objective.

# Assumptions

The application is designed for high scalability.

The system is intended to be consistently available, allowing user access via a web browser, limited only by server downtime.

Security is a crucial aspect of internet transactions, necessitating the secure and encrypted handling of all data.

# Risks

* For newbies, an angular feature can be perplexing.
* There isn’t a clear manual or comprehensive, all-encompassing documentation.
* The learning curve is steep.

Appendix

## References

1. https://angular.io/