

WIPRO NGA Program – Java FSD Angular

Capstone Project Presentation – 23rd Sept 2024

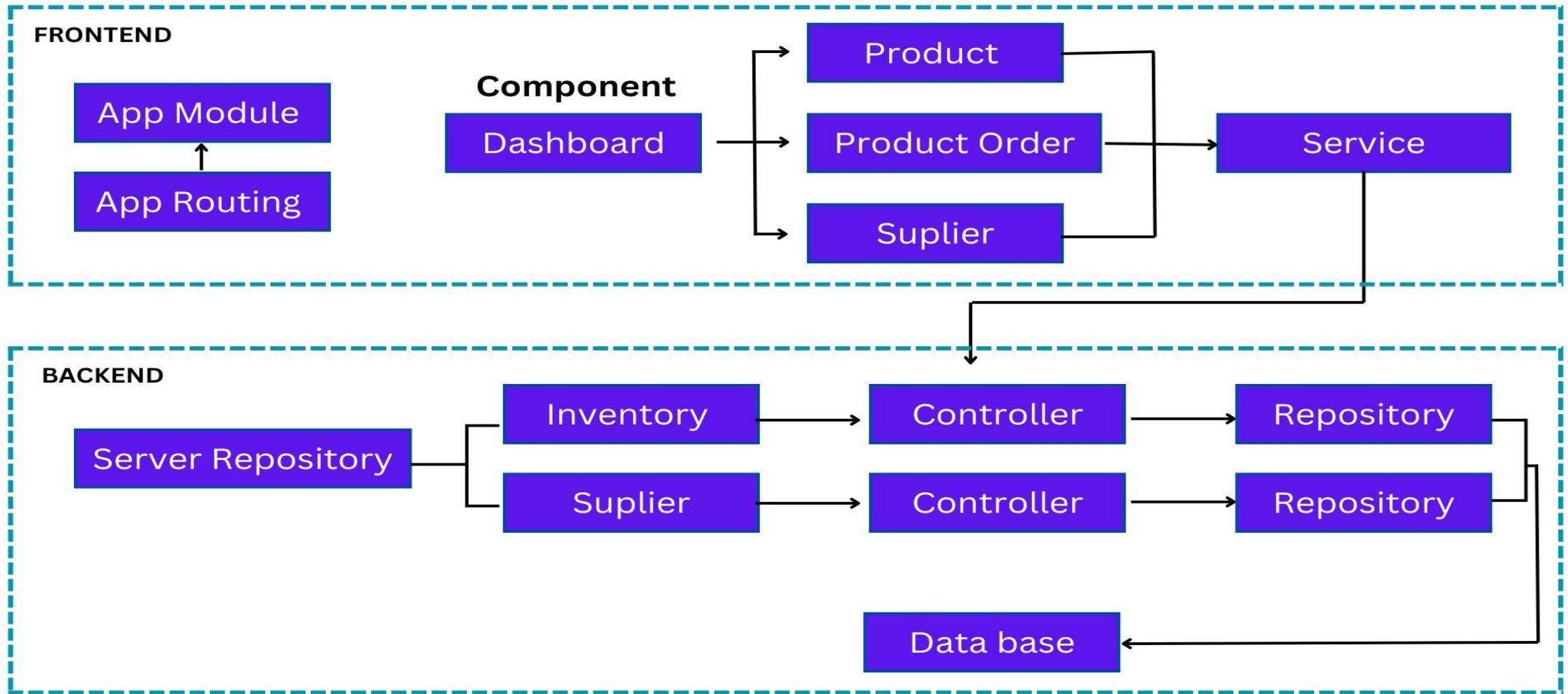
Project Title – Smart Inventory Management System.

Presented by – Dinesh Gayke.

Problem Statement

- **Outdated Practices:** Old methods lead to mistakes and inaccuracies.
- **Overstocking:** Holding too much stock increases costs.
- **Stockouts:** Running out of products results in lost sales.
- **Manual Tracking:** Keeping track by hand can lead to errors.
- **Slow Decisions:** Without up-to-date information, it's hard to make good choices.
- **Poor Forecasting:** Limited tools make it tough to predict future needs accurately.

Project Design



Technology Stack

❑ Content:

▪ Frontend:

- HTML5, SCSS, JavaScript, Angular

▪ Backend:

- Core Java, Spring Boot, RESTful APIs, Microservices.

▪ Database:

- MySQL

▪ Testing:

- JUnit

Demo of the Project.

Products

Product Name	Price	Unit	Quantity Available	Action
Apple	1.2	kg	11	<button>Sell Item</button>
Banana	0.5	kg	132	<button>Sell Item</button>
Cherry	3.0	kg	35	<button>Sell Item</button>
Plum	1.4	kg	25	<button>Sell Item</button>
Pear	1.1	kg	30	<button>Sell Item</button>
Orange	0.8	kg	55	<button>Sell Item</button>

Ordered products

#	Product	Price	Unit	Order On	Supplier	Quantity Purchased	Order status
6	apple	23	KG	2024-09-25	yogesh	7	<button>Pending</button>
8	date	69	KG	2024-09-22	omkar	13	<button>completed</button>
12	banana	78	KG	2024-09-22	dinesh	45	<button>Delivered</button>
13	fig	94	KG	2024-09-23	dinesh	19	<button>canceled</button>

Create product order

Product: Supplier:

Quantity: Unit:

Price: Order On:

Order Status:

Submit

Suppliers

#	Supplier Name	Contact Number	Address	Edit
	dinesh	7085755445	pune	<button>Update</button> <button>Delete</button>
	yogesh	9021454579	Aurangabad	<button>Update</button> <button>Delete</button>
	omkar	7958965423	pune	<button>Update</button> <button>Delete</button>
	ganesh	9850168102	Banglore	<button>Update</button> <button>Delete</button>

Future Scope

❑ Enhancements:

- **IoT Integration:** Implement real-time tracking using IoT devices.
- **Machine Learning:** Utilize algorithms for inventory optimization and predictive analytics.
- **Mobile App Development:** Create a mobile interface for easier access and management.

❑ Scalability Plans:

- **Expanding Microservices:** Increase the number of microservices to handle more functionalities.
- **Feature Additions:** Incorporate new features based on user feedback and market trends.

❑ Performance Improvements:

- **Optimization Areas:** Continuously identify and implement optimizations for system performance and efficiency.