

Team 11 - Module Planning

Bolded subtitles are different modules

Planning

Allows planning of targeted sales per year

Scheduling

Optimize production of materials, parts, and products

Namely should prioritize those in low quantity depending on material usage

Based on Production module

Connect to production machinery via web services, COM ports(?), and csv/xml files

Tracking of production machinery current status and duration of current operation

Vendors (Procurement)

Define parts/materials/products based on vendor

Define parts based on defined products

Ordering parts and raw materials

Should be called from Production and checked from Accounting

Automatically done with Planning at the start of year

Production (Running through different processes)

Define products (Properties of the bike + Type of bike (Road Bike + Mountain Bike))

Tracking of materials lists

Tracking inventory of materials (location, number of material, current backlog, etc...)

Namely should have materials for the parts

Tracking inventory of products and parts

Production of final products

Quality Management

Tracking of Final Products available for sale (little to no defects)

Track quality data (defects) from parts and products based on vendor

Should support some manually triggered rules/system generated rules (?)

Packaging

After payment has been cleared, should change status to packaging

Packaged with materials on hand (Should have boxes in material list/vendors)

Transport Planning/Shipping

Tracking number should be generated and given to customer

Expected shipping time should be calculated

Based on shipping cost chosen by customer

Sales (Customers)

Ordering final products

See what is available to be shipped now or when it will be available

Accounting

- Tracking of monetary assets and current funds
 - Should list all purchases, sales, and related account number
- Generate documents of the sales
 - Uses Information Collecting module
- Support process driven work-flow messaging

Security

- Create roles for registered users and limit access based on roles
 - Customers are not required to have an account
 - If they do, they can save their info and see what's available to buy/order
- Roles = null (Customer),
- Generate logs and audit logs for any actions taken in the system
- Encryption of all sensitive data (password, charge number, shipping address, etc...)

Information Collecting

- Generate documents for any modules in different formats
- Send emails to some roles according to roles & events
 - >Should send in account creation

Website

- Follow good UI principles (NFRs)
- Take less than 5 seconds to load (NFRs)
- Support automatic logout
- Mobile-friendly (NFRs)