

# Software Requirements Specification

Version 1.0

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# Web Publishing System

Submitted in partial fulfillment Of the requirements of e-DHR(Electronic Device History Records) Software Engineering

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## 1. Introduction

#### **1.1 Purpose**

The purpose of this document is to present a detailed description of the Web Publishing System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document describes the software requirements, which comprises the stated Requirements and functional requirements along with various application layering and scope of development for the e-DHR Project.

The e-DHR Project enables you to document all tests done for the product with its document number. The system will give you observed result and overall result of tests. According to the results, you can decide whether the product is required to be reworked. Also it captures equipment details used for the testing such as calibration due date etc.

#### 1.2 Scope of project

This software system will be a Web Publishing System for the local users of SFO Technologies. This system will be designed to maximize productivity by providing tools to assist in automating Product Tests Process. By maximizing the users' work efficiency and production the system will meet the Quality Engineer's needs while remaining easy to understand and use.

More specifically, this system is designed to allow an Quality Engineer to manage and communicate with their team. The system also contains a relational database containing Product, Document, Tests, Test assets, Test information, Test Data, Equipment used and Rework.

# 2. System Overview



# 3. Functional Specification

## 3.1. Main Window:

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#### 3.2 Initial Step-By-Step Description:

- Masters should be defined before executing e-DHR.
- The product must be defined in the master.
- The Test Document for the product must be defined in the master.
- Necessary Equipment details should be retrievable from the ERP system.
- Test Master holds two types of documents: Test Asset and Tests
- The Tests and Test Asset must be pre-defined for each combination of product and test document
- Equipments to test for each product must be predefined in the Test Asset Master .
- E-DHR has four subdivisions Test Information, Equipment used ,Test Data and Rework .
- When an operator enters the product and test document number in e-DHR, the system will restore its corresponding equipments from Test asset master to equipment used and corresponding tests from Test master to Test Data.
- The system will calculate overall result of test based on the value of observed result of each tests .If the result is fail, the product will be sent to rework station. The rework details will be captured by rework Tab.
- Accessibility to each page is restricted based on the roles.

# 4. Requirements Specification

## 4.1. External Interface Requirements

The only link to an external system is the link to the Dynamic NAV Database.

Microsoft Dynamics NAV 2009 is a complete enterprise resource planning (ERP) software solution.

### 4.2 Data Flow Diagram



## 4.3 Data Entities

> The Product master holds the following fields :

Field	Туре
Product id	int
Product part no	nvarchar(50)
Product description	varchar(255)
Product status	bit
Created date	date

> The Test Document master holds the following fields :

Field	Туре
Testdoc id	int
Testdoc refno	nvarchar(50)
Product part no	nvarchar(50)
Testdoc revision	float
Testdoc status	bit
Created date	date
Test report no	nvarchar(100)

The Equipment details are already defined in Nav Dynamic ERP system. The e-DHR system pulls necessary details from ERP system.

Field	Туре
Machine No_	varchar(30)
Machine Description	varchar(250)
Machine Category	varchar(50)
Caliberation Required	tinyint
Caliberation Date	datetime
Last Caliberation Date	datetime
Next Caliberation Due on	datetime

> The Test Master holds the following fields :

Field	Туре
Test id	int
Test ref no	nvarchar(50)
Testdoc refno	nvarchar(50)
Product part no	nvarchar(50)
Test serial no	int
Test requirement	varchar(255)
Test type	varchar(50)
Test point	varchar(100)

Field	Туре
Required result	varchar(255)
Normal value	decimal(18, 0)
LSL	decimal(18, 4)
USL	decimal(18, 4)
Test comments	nvarchar(MAX)
Test stage	nvarchar(100)
Pos attr result	nvarchar(50)
Neg attr result	nvarchar(50)

#### Limitations:

Depending on the value of test type some fields will be editable/non-editable:

- ✓ If the test type is Value, the following fields will be editable:
  - Test point
  - Normal Value
  - LSL
  - USL
- ✓ If the test type is Attribute, the following fields will be editable:
  - Test point
  - Positive Required result
  - Negative Required result
- $\checkmark$  Serial No must be auto incremented based on the combination of product and test document.
- ✓ The tests can be filtered by product and test document.
- > The Test Asset Master holds the following fields :

Field	Туре
Test asset id	int
Test asset refno	nvarchar(50)
Test doc refno	nvarchar(50)
Product part no	nvarchar(50)
Asset Description	nvarchar(500)
Serial no	int

Limitations:

- ✓ Serial No must be auto incremented based on the combination of product and test document.
- ✓ The Test assets can be filtered by product and test document.
- e-DHR Test Information holds the following fields :

Field	Туре
Test report id	
Created date	date
Tested by	varchar(255)
Product part no	nvarchar(50)
Work order no	nvarchar(100)
Card serial no	nvarchar(100)
Shipping serial no	nvarchar(100)
Test doc ref no	nvarchar(50)

Field	Туре
comments	varchar(255)
Overall result	varchar(255)
Nature of failure	varchar(255)
Reason for failure	varchar(255)
Rework details	varchar(255)
Remarks	varchar(255)
Id	int
Test report no	nvarchar(100)

Limitations and Requirements:

- ✓ Mandatory fields:
  - Product
  - Test Document
  - Tested By
  - Work Order No.
  - Card Serial No.
  - Shipping serial no
- ✓ Test document must be filtered on the basis of given Product
- ✓ Test Report Rev No must be auto generated from Test document Master
- ✓ Special files can be up loadable and downloadable
- > e-DHR Equipment Used holds the following fields :

Field	Туре
Equip id	int
Test report id	nvarchar(50)
Product part no	nvarchar(50)
Testdoc ref no	nvarchar(50)
Test asset ref no	nvarchar(50)
Asset type	nvarchar(50)
Calibration needed	bit

Field	Туре
Last calibration date	date
Calibration due date	date
Used	bit
Nav asset	nvarchar(500)
Serial no	int
Asset description	nvarchar(500)
Nav asset description	nvarchar(500)

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Field	Туре
Test data id	int
Test report id	nvarchar(50)
Test doc refno	nvarchar(50)
Product part no	nvarchar(100)
Test stage	nvarchar(100)
Test serial no	int
Test requirement	varchar(255)
Test type	varchar(50)
Test point	varchar(100)
Required result	varchar(255)

Field	Туре
Normal value	decimal(18, 5)
LSL	decimal(18, 5)
USL	decimal(18, 5)
Measured value	decimal(18, 5)
Observed result	int
Test status	bit
Observed attr result	int
Pos result	nvarchar(50)
Neg result	nvarchar(50)

> e-DHR Rework holds the following fields :

Field	Туре
Rework id	int
Serial no	int
Tes treport id	nvarchar(100)
Nature of failure	nvarchar(1000)
Reason for failure	nvarchar(1000)
Rework details	nvarchar(1000)
Remarks	nvarchar(1000)
Rework date	date

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# 8 Installation Qualification (IQ)

Architecture : Web application Script : Javascript Programming Language : Java RAD Tool : Wavemaker 6.3.3GA Operating System : Windows XP Database : Microsoft SQL Server 2008 R2 WebServer : Apache Tomcat 8.0 Minimum Specification : Firefox 2 or 3, Internet Explorer 7, or Safari 3 1 GB System Memory 250 MB Disk Space 1024 x 768 Screen Resolution Java Container running on JDK 1.5 or above, or JDK 1.6.0\_04 or above

## 8.1 Components

WaveMaker consists of WaveMaker Studio and WaveMaker Runtime

WaveMaker is bundled with Tomcat Server and Hypersonic Database. WaveMaker supports other servers and databases as well.

WaveMaker Studio is a visual and intuitive drag-and-drop development environment that you use to build standardsbased web applications. It runs in a browser. The WaveMaker installation includes a full web application stack, including a web server (Tomcat).

WaveMaker Runtime is a runtime server and client framework that is embedded in the application created by Studio. You deploy WaveMaker applications using standard Java WAR files that can run in any Java server. Applications built with WaveMaker use standard web infrastructure, including SpringSource components that provide scalability, performance, and portability.

# 9 Operational Qualification (OQ)

## 9.1 Functional Testing

Product Master :

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	3 PCT		Attribute	Cycle Over indication lamp	Blinking				
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	S FOT	ACDC output voltage	Value	+DC 6 9DV	1	<u>.</u>		9	
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## 9.2 Challenge testing

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If the value given in the combo box is not valid, the system will prompt with error symbol in the corresponding fields.

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The system will prompt with error message if the preceding entries are not completed in Equipment used and Test data.



### 9.2.1 Test Cases

Refer EDHR-SystemTestcase.xls

# **10** Performance Qualification (PQ)

- 10.1 User Acceptance Testing Refer UAT.xls
- 10.2 System Performance Testing Refer EDHR-SystemTestcase.xls

# **11 Conclusion:**

- Web applications can be accessed without installing any software's.
- Web based applications can dramatically lower costs due to reduced support and maintenance, lower requirements on the end user system and simplified architecture.
- The beauty of the web applications is that they work on multiple platforms. Most of the applications work on different Internet browsers like Mozilla Firefox, and Google Chrome etc.