Software Requirements Specification

for

Asset Management System

Version 1.0 yet to be approved

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# Introduction

## Purpose

This document is related to the software tool developed by the students of NIIT University as a part of one of the courses, Software Engineering in the B.Tech CSE 3rd Year. This is the first draft report by the author. Newer versions and upgradations yet to be developed.

The purpose of the project is to keep track of all the asset in the University. Providing user friendly information in creating reports for Beyond Economic Repair, Asset Movement History and Insurance claim reports.

## Document Conventions

The basic convention followed in the report is with the System Features. Where, 1 refers to a higher priority, 2 refers to a slightly lower priority and soon.

## Intended Audience and Reading Suggestions

This document is intended to all the administrative staff, audit manager and the staff dealing with the asset management in the organization. It is advised to have a basic knowledge of the movement procedure of an Asset in the Organization and the campus. Knowing all the places of the campus to a good extent is preferred.

## Product Scope

The Scope of this software or the tool being built is to keep track of all the asset in the university, this software helps the administrator or the staff building a report for the list of Beyond Economic Report. It even helps to create a comprehensive movement report of all the asset in the campus. Audit of the asset of the organization is a simple process.

## References

Template used for creating this Document is IEEE SRS document found on any platform.

(IEEE Std 830-1998)

# Overall Description

## Product Perspective

This product is the first ever of this kind. It is being built from scratch and is not development of any existing tool or software. Any existence of a software of this kind is just a co-incidence.

This software is best for any administrator for asset management for any campus or organization with small changes. The basic idea of this project is to create an environment where there’s no need of any knowledge of excel for the user. It is a better option rather than maintaining a simple excel as the tool can help you by supplying a detailed a report for shifting history of a single asset.

## Product Functions

This tool allows you to locate an asset by providing a unique id to the asset. It can even help the user in shifting an asset. It allows you to update the location every time to move the asset. The software allows the user to update the working condition of the asset on a daily basis.

The software allows you to view the asset you have on the basis of many other attributes to the asset. Like, working state, Location and other details. The software can even show you the entire shifting history of the asset from the day it has entered the campus to the present location based on the unique ID given.

## User Classes and Characteristics

Set of users we have can be divided into majorly 3 different categories. 1) Admin – Is given the power of doing any change in the system at any point, All the data is accessible to this user. All the view options are open to admin. 2) Auditor – This kind of user has the access to data which is related to auditing the whole asset. Can even get access to the reports produced according to the organization’s policies. 3) Staff – Has a limited access. Can update location of an asset. Can update status of an asset. View damaged assets’ location.

## Operating Environment

As it is a web-based software an active internet connection with a decent browser will do good. (Decent browser includes Chrome 45.0.2454, Internet Explorer 10, Mozilla Firefox 37.0, Safari 6.2.8 or Opera 27). Preferable with laptops, PC and tablets.

## User Documentation

A user manual with a detailed guide for the usage of this software will be provided. All the basic demonstration of the software to be done by the team. A help section will also be provided for an immediate referral.

## Assumptions and Dependencies

The software is designed in a user-friendly way with simple language to avoid any ambiguity. It can provide with a specific and clear-cut results provided that, the user the full knowledge of the data and the control over it. The operations, data feeding and related use of the software lies in the hands of the user. For a better view and best use of the software referring to the user manual is recommended.

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# External Interface Requirements

## User Interfaces

The user interface will be consisting firstly of, a login page where the users will be logging in with a UID and the features respective to their authority, that is, in ascending order Staff<Audit Manager<Admin Head, will be given access to. On login page there will be a logo which will be devised for our initiative, a link leading to a help page which will be including troubleshooting and FAQ related resources and a forgot password/reset password link.

**Page after login:**

1. **Admin Head**
2. **Create an Asset**

Introducing an Asset to the system.

1. **Add an Asset**

Establishing a new batch of predefined Asset.

1. **View Asset Status**

Determining whether the asset is Working, Damaged, Repairing, cannot be repaired.

1. **Update Asset Status**

Re-Assigning asset status after reviewing the Asset particulars.

1. **View Asset Location**

Determining current location of an Asset.

1. **View Asset Shifting History**

Retrieving asset location logs over a specified period of time.

1. **Audit Manager**
2. **View Asset Shifting History**

Retrieving asset location logs over a specified period of time.

1. **View Asset Location**

Determining current location of an Asset.

**c) Staff**

1. **Update Asset Status**

Re-Assigning asset status after reviewing the Asset particulars.

1. **Update Asset Location**

Re-Assigning present Asset location of Asset particulars after shifting or related operations.

## Hardware Interfaces

Minimum Requirements for host system are:

1. 32-bit Operating System
2. 2 GB RAM
3. Network Card
4. 8 GB ROM

## Software Interfaces

JRE

MySQL (RDBMS)

Web Browser Support

# 

# System Features

## Create an Asset

4.1.1 Description and Priority

*Admin can create a new asset that are not defined before.*

4.1.2 Stimulus/Response Sequences

*After logging into the portal admin has to click the create asset button and should give the name of an asset and then should click button create*

4.1.3 Functional Requirements

This function is required to check whether the asset is already present or not. If it was present then no need to create the asset. User has to login to access this feature.

## Add an Asset

4.2.1 Description and Priority

*Admin can add pre-defined asset and this will also generate unique id to the asset and by default location will be the reception. Only admin can do this function.*

4.2.2 Stimulus/Response Sequences

*Click the add asset button and then drop-down menu option appears select an asset and then click add.*

4.2.3 Functional Requirements

This function is required toadd to the particular asset we should not add the number of a particular asset to others because it leads to the difference in the number.

## View Asset Status

4.1.1 Description and Priority

*Admin can see the status of any particular asset i.e. whether it is damaged, working, repairing and cannot be repaired etc.*

4.1.2 Stimulus/Response Sequences

*Click Asset Status and then select the type of asset and then enter the respective unique id that is related to that asset and then click show Status.*

4.1.3 Functional Requirements

This function is required to seethe status of a particular asset of a particular type. (For example, if there is an asset with id Table\_23 we can see the status of that particular one whether it is damaged, working, repairing and cannot be repaired etc.)

## Update Asset Status

4.1.1 Description and Priority

*Staff can update the status of the asset whether is it working, damaged or can’t be repaired.*

4.1.2 Stimulus/Response Sequences

*Any staff he/she having credentials will login to the page and then click on Update asset status in which we have to search for the asset with its id and then change the status of the asset to either working, damaged or can’t be repaired.*

4.1.3 Functional Requirements

This function is required for updating the status if there is any problem with the asset otherwise the data will be corrupted if we don’t change the status. (For example, if there is a product which was damaged in the past and it was repaired. Then the change of status will be working->damaged->repaired->working.)

## View Asset Location

4.1.1 Description and Priority

*Admin can see the location of the particular asset.*

4.1.2 Stimulus/Response Sequences

*Click asset location and then enter the unique id of an asset then click show.*

4.1.3 Functional Requirements

This function is required to check the asset Id is exists.

## View Asset Shifting History

4.1.1 Description and Priority

*Admin can see the location history of the asset from the time that it has been created till date.*

4.1.2 Stimulus/Response Sequences

*Click on Shifting History and then give the unique id of the asset then click show.*

4.1.3 Functional Requirements

This Function is required to check the asset history that from where the particular asset has been shifted (For example reception->Store room.)

## Update Asset Location

4.1.1 Description and Priority

*Staff can update the location of the asset as of where the asset is present at which place.*

4.1.2 Stimulus/Response Sequences

*After staff login page we have to click on update location in which we have to search for the asset with its id by changing its room number and its location.*

4.1.3 Functional Requirements

*This Function is required to check the asset history that from where the particular asset has been shifted (For example reception->Store room.)*

# Other Nonfunctional Requirements

## Performance Requirements

Internet Speed should be responsive and sound.

None of the authoritative actor can login at two different systems during the same session. The host system should be capable enough to support up to 20-30 client nodes in a single session.

## Safety Requirements

The Operational update by the staff user may not tally with the actual facts and information, thus it’s the responsibility of the Auditor to take care of such wrong transactions.

## Security Requirements

User will be provided a username and password to login. We will also be providing separate login credential for separate class of users, that is, an admin will have a separate login ID and staff will have a separate login ID.

## Business Rules

Creating and adding of an asset can only be done by Admin and they can check the asset shifting history, status and location of a particular asset. Auditor has the authority to remove an asset, view an asset and can check the shifting history of the assets. Staff can only update and view asset location and status. To protect sensitive information about some of the assets, we are giving different login IDs to different type of users.