## Objective

Development of Asset Management System used for maintenance of an asset details in an organization.

## Abstract of the project

This project is aimed at developing Online Asset Management System. This is an Intranet based application that can be accessed throughout the organization and this is a web based application that can be accessed over the web. This system can be used to search for an asset based on search condition, assign a hardware asset to/from an employee based on request, insert new asset details, modify an existing asset details and display all asset allocation request details. This is an integrated system that contains both the user (Manager) component and the Admin component.

## Functional components of the project

Following is a list of functionalities of the system. Wherever, the description of functionality is not adequate, you can make appropriate assumptions and proceed.

There are two categories of people who would access the system viz. User (Manager) & Admin. Each one of them would have some exclusive privileges (for e.g. Managers can just raise a request for allocation/release of an asset for his/her team member on behalf of them.)

1. Managers should be able to
   * Login to the system using his/her credentials
   * Raise a request for allocation of asset to an employee, by filling up the asset requisition form that auto generates the asset request ID.
   * View the status of request, based on the asset request ID
2. The administrators should be able to
   * Login into the system using his/her credentials
   * Include new asset/modify asset details from the inventory.
   * Approve/Reject a request on the basis of the details of the request raised. If raised request is approved, then allocate asset to an employee and change request status as ‘Allocated’.
   * Generate various reports like:
     + View List of assets available in an organization based on category:
       1. Allocated Assets
       2. Unallocated Assets
     + Also export the assert details data into an excel sheet.

**Suggested Stack:**

1. **JAVA Track:**

* Java 8
* Angular 6+
* Maven
* Spring Boot 2.x
* SpringREST
* Spring Data JPA
* Postman
* Oracle/Postgres
* JUnit 5/Mockito
* Sonarqube
* JACOCO

1. **.NET Track**

* C#
* Asp.net
* EntityFramework
* Angular 6+
* MSBuild, MSTest/NUnit,
* SQL/MySQL/Oracle/Postgres