AMS Design Document

Requirements

Functional

- Coordinators can create/retire assets
- Coordinator can see the history of an asset/employee
- Employees can request assignment
- Stored employee professional information
- Employees can see their requests and assignments and their status
- Every asset has its key identifiable information associated with it
- Users can login to the system, Coordinators can manage access.

Non-functional

- Performance: timely response to user interaction. This can be achieved by choosing the correct technologies and provisioning the appropriate infrastructure to the project.
- Usability: the system should be easy to use. This is done through a combination of system design and frontend engineering to ensure the system is easy to interact with and manipulate by a user.
- Security: the system should not be susceptible to malicious interaction, or make available information to actors who should not have access to it.
- Maintainability: must be easy to maintain, through a combination of foresight in design and clean code

to lend the system to
extension or modification.

Architecture

Database: Oracle Database running in a Docker container

Interface: Flask Web Server and HTML+CSS