**Overview:**

This program will use python enabled modules to create a desktop web application where the user will be able to interface with property management tools.

**Permissions**

Permissions to view property information will be limited on three levels: executive managerial, project managerial, and general employee.

* *General employees*
  + Will have permission to view property information pertaining to their assigned project
  + This level allows employees to create tickets to release property from their possession or to a different location.
  + No permission will be granted beyond this point.
* *Project managers*
  + Will be able to accept or reject ticket requests made by employees.
  + They will also have direct access to edit information about property that is assigned to their project specifically.
  + Will be able to create a property ID when new property come to the company for their project
  + No permission will be granted beyond this point.
* *Executive Managers*
  + Will be able to assign and remove program mangers on company projects
  + They will have project managerial permission for every project in the company
  + They will have ultimate permission to view and edit everything pertaining to property in the company.

**Database Setup:**

There will be multiple tables to track all data pertaining to property management in our company. Each of the following will be a separate table in SQL:

* *Employee Login***:**
  + Employee ID Number: Will match ID from their physical ID assigned
    - Primary key
  + Employee First Name
  + Employee Last Name
  + Employee Password: defaults to their birthday
    - Password will be hashed before storage to ensure encryption
  + Employee Phone Number - optional, if I have time
  + Employee Email Address – optional, if I have time
* *Property***:**
  + Property ID:
    - Will be assigned upon creation by project manager
    - Primary key
  + Project ID: based on the project property is assigned to
  + Employee ID: based on the employee that possess property
  + Property Type: Laptop, Desktop, Table, Phone, Monitor, Etc.
  + Property Manufacturer
  + Property Year Manufactured
  + Purchase Date
  + MSRP
  + Last Maintenance Date
  + Decommissioned
    - Boolean
  + Decommission Date
* *Permissions:*
  + Employee ID
    - Primary key
  + Managerial Level
* *Projects:*
  + Project ID
    - Primary key
  + Project Title
  + Skills Needed - optional, if I have time
* *Project Assignments:*
  + Project ID
  + Employee ID

Front End Layout:

* Login Page:
  + Asks for Employee ID
  + Asks for Password
* Home Page (General Employees)
  + “Welcome Employee Name!”
  + Menu to view:
    - Profile
    - Direct Reports (employee view: Managers, PM view: employees and Execs, Exec view: PMs and employees)
    - Project Property
    - Assigned Projects
    - Project Property
    - Employee Assigned Property
    - Request to Claim or Release Property
    - Property Claims and Release Approvals (PMs and Execs only)