

Warehouse Management

Write an application that will support booking cargo in warehouses. Basic functionality of the application should include: storing cargo and warehouse data, registering new and removing old cargo, moving cargo between warehouses, grouping cargo. When started, the application should load cargo and warehouse data from files in XML or CSV format.

Required data for cargo:

- Category: Industrial, Raw Material, Merchandise, Other;
- Specific Description,
- Mass Of Single Package,
- Number Of Packages,
- Assigned Warehouse,
- Arrival Date.

Required data for warehouses:

- Location,
- Capacity: summed mass of packages that warehouse can hold at once.

Expected functionality:

- Adding new cargo to warehouse: do not exceed Capacity of the warehouse,
- Remove cargo from warehouse,
- Move cargo from one warehouse to another,
- Display all details of a cargo,
- List all warehouses that are nearly full (that have reached 80% or more of their Capacity),
- List all warehouses that are nearly empty (that have reached 20% or less of their Capacity),
- List all cargo from warehouse, sorted by Arrival Date,
- List all cargo of specific Category from warehouse,
- Save program data to specified files,
- Clean exit out of the application.