**Amex Goods Management System**

The Amex Shipping Solutions is a mid-sized logistics firm in the City. The Authorities of the firm wished to implement a simple Goods Management System to manage their goods like laptops, ipads, projector etc.., when it is assigned/returned to/by its Employees. So help the firm in building a menu driven goods management system in maintaining the goods of the firm.

The goods management system should do the basic operations listed below.,

1) Assign - Assign the goods to the cargo

2) Return - Update the goods when returned by the cargo

3) Exit

The first option "1) Assign" should read a username and validate if he/she is a registered user.

a) If the user gives invalid user credentials, then display “Invalid Username”, and terminate the application.

b) When a valid username is given, the system should read the goods type from the user. If the goods type that the user entered doesn’t exist, then display “Invalid goods type” and terminate the application.

c) If the correct goods type is given, the first available goods is assigned to the user.

d) If no goods are available in the goods , display “Goods not available”.

The second option "2) Return " should read a username and validate if he/she is a registered user.

a) If the user enters invalid user credentials, then display “Invalid username”, and terminate the application.

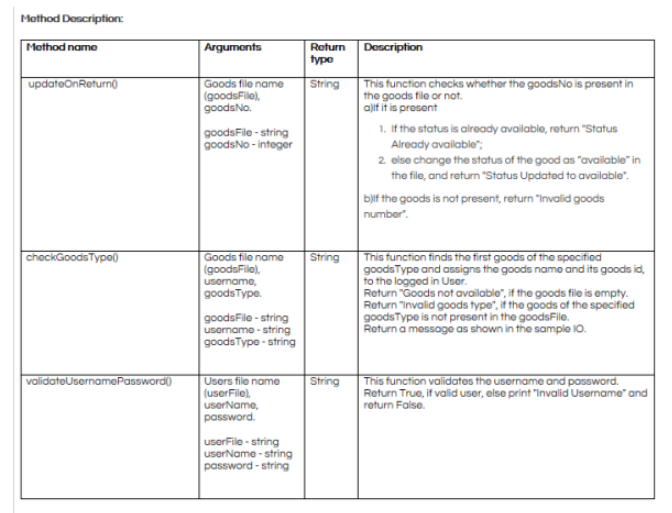
b) When a valid username is given, the system will read a goods number from the user.

If an invalid goods number is given, display “Invalid goods number” and terminate the application.

c) When a valid goods number is given but if the goods is already available then return "Status Already available". Else the status of the goods is changed to available in the file, and return "Status Updated to available". The third option "3) Exit" should terminate the system.

**Note:** All the terminations should happen only from the main and not from the methods.

**Method Description:**



**Input and Output Format :**

Refer to the sample input and output for formatting details.

Two xml input files are, goods.xml and user.xml

**Note:** The python version to be followed is 2.7.3

**goods.xml**

<goodsList>

<goods>

<id>11</id>

<number>9311</number>

<status>available</status> <category>Garments</category>

<type>Tops</type>

<name>Long Tops</name>

<price>3000</price>

</goods>

<goods>

<id>12</id>

<number>9313</number>

<status>unavailable</status>

<category>Medicine</category>

<type>BP Tablets</type>

<name>Tentex Tablets</name>

<price>800</price>

</goods>

</goodsList>

**user.xml**

<userList>

<user>

<id>1</id>

<username>suraj</username>

<password>surkum</password>

<name>Suraj Kumar</name>

<department>Marketing</department>

</user>

<user>

<id>2</id>

<username>chetan</username>

<password>cheshe</password>

<name>Chetan Shetty</name>

<department>Software</department>

</user>

</userList>

**Sample Input and Output 1:**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

**1**

Enter username:

**vik**

Enter password:

**Ebox**

Invalid Username

**Sample Input and Output 2:**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

**1**

Enter username:

**suraj**

Enter password:

**Surkum**

Enter goods type:

**comp**

Invalid goods type

**Sample Input and Output 3:**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

1 Enter username:

suraj

Enter password:

surkum

Enter goods type:

BP Tablets Tentex Tablets with id 12 is successfully assigned to suraj

**Sample Input and Output 4:**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

**2**

Enter username:

**suraj**

Enter password:

**surkum**

Enter goods number:

**1020**

Invalid goods number

**Sample Input and Output 5 :**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

**2**

Enter username:

**suraj**

Enter password:

**surkum**

Enter goods number:

**9313**

Status Updated to available

**Sample Input and Output 6 :**

1. Assign the goods to the Cargo

2. Return - Update the goods when returned by the cargo

3. Exit

Enter your choice:

**2**

Enter username:

**suraj**

Enter password:

**surkum**

Enter goods number:

**9311**

Status Already available