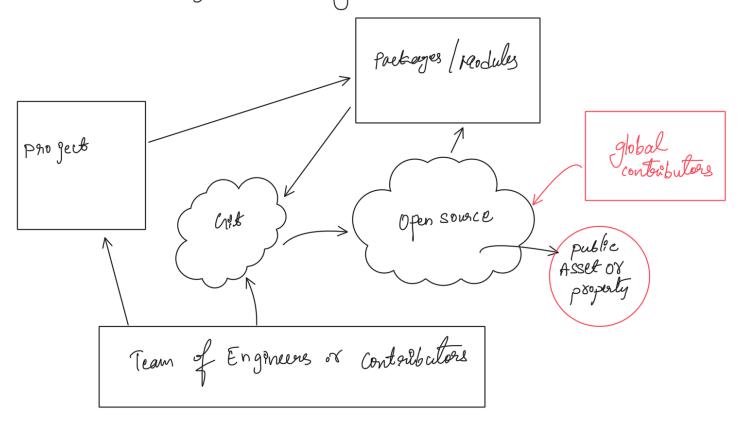
Any Realworld Software containes Millions of Lines of code under which Thousands of Engineers working together

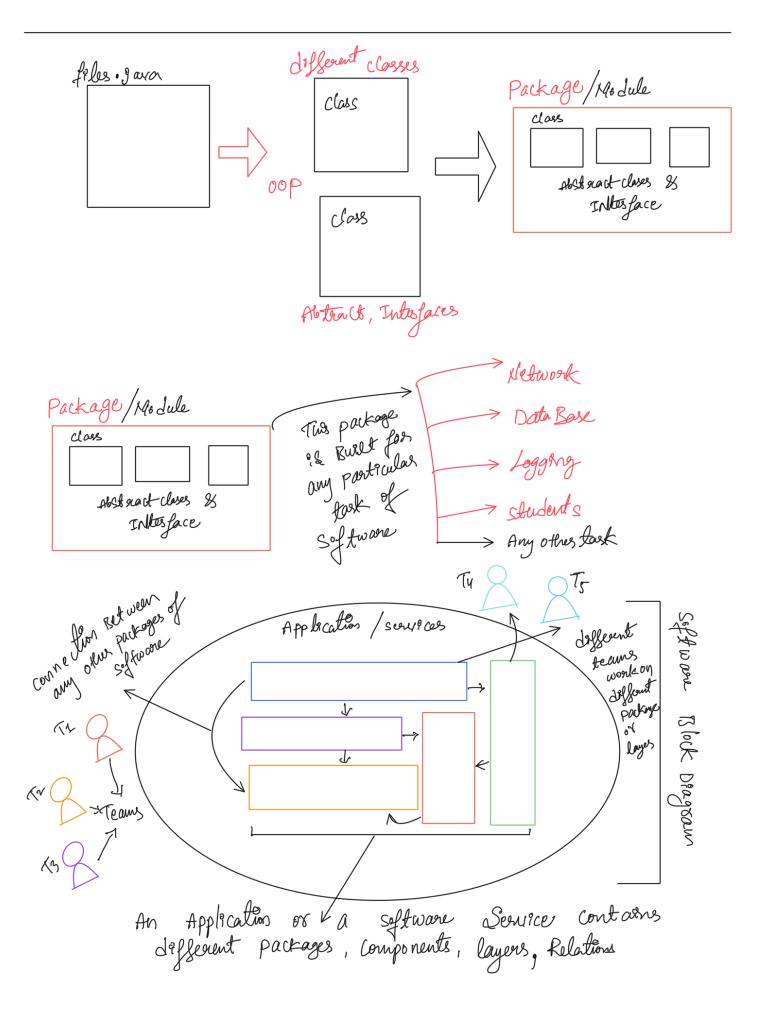
So We Have to organize and Maintain the code In a Systamodic way.



consider Any Project It has to be maintained and well 09 gavi Jedo

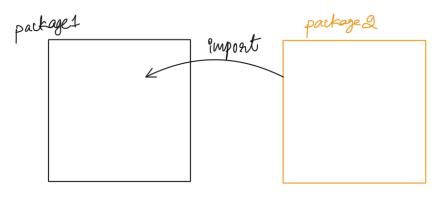
Which solves the Common problems or provides Services to different types of Bushiness Have Same Service Need.

So the code made open Source So that any global contributors can contribute to the Software and any one can make use of that open Source Software.



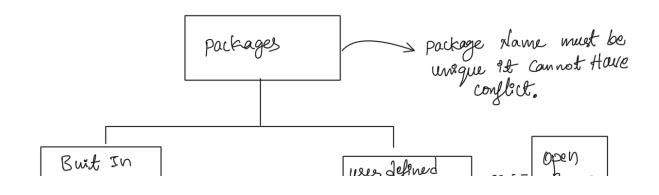
If He ofgenize and mountain the Software in a systamodie hay so other Software developers can whork collaborately. different Teams Work on different package or Module of Softwood.

Impost (gettern reference from another package to a package)



Advantages of using Packages in JAVA

- · 190 dulavity : Packages Break large projects into smaller, Managable, development Early · Reusability: Classes inside a package can be guested across different parojects or part of Same project. helps to avoid Redundancy.
- · Name Space Management : pouvents class Name conflects
- o Organization :> Package organize classes and antesface into meaningfull quelated genoups amproving code Readabole ty.
- · Access Contorol :> Packages Provide different levels of access protection (default, public, protected) to Encapsulate classes and Intesfaces.



Multiple parkages in a Software But only the greguisoned thangs are used in a fall to perform Some operation.

emposit describe which parkage is connecting with which parkage only that connected parkage is used in a particular parkage.

lets understand with Simple Example.

College Managment

App is wing data stanctures package

Data stancture

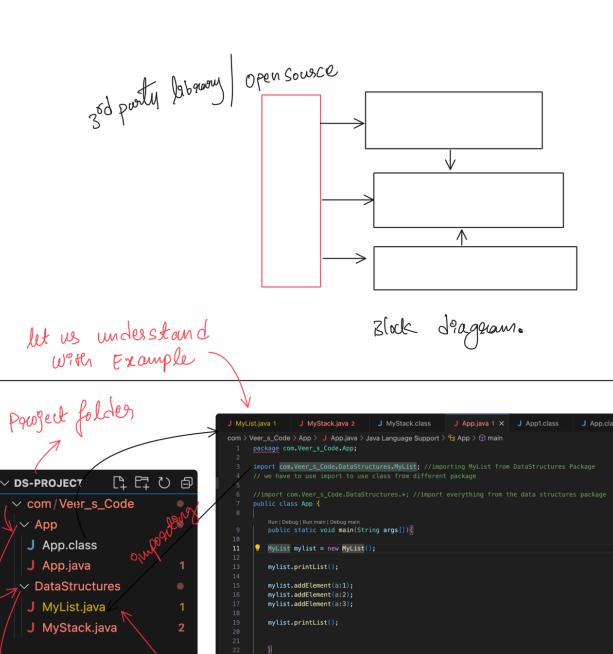
1: brown Management also wing datas town tures package

Library Management

We can observe in the above figure that the college Management Not using the Library Management & Vice (lessa.

Block deageaun & Understanding Which package es used By which file and shows the connectivity with Next picture.

clear pacture of the Software its working packages & Connectivity.



Imposting & Built in package

✓ App

```
J App1.class
com > Veer_s_Code > DataStructures > J MyList.java > Java > 😝 MyList > 🏵 addElement(int a)
      public class MyList {
          private ArrayList<Integer> list = new ArrayList<>();
          public void printList(){
              System.out.println("List : "+ list);
          public void addElement(int a){
            this.list.add(a);
```