## 3.1. Access Control and Security

In our project, WWDS, there are 3 types of actor which is Visitor, User and Admin. Visitors are the ones who are not logged into the WWDS and/or who has no information to log into the WWDS. Users are the ones who are able to log into the WWDS with their login information.

The implementation of the Access Matrix to the WWD system, adopts the idea of “Access Control List”. We identify (Actor, Operation) pair for each classes. By implementing this we are aiming for classes to check their own accesses as Bruegge and Dutoit mentions “In Access Control List, every time an object is accessed, its access list is checked for the corresponding actor and operation”

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | PROJECT | DONATION | USER | STUFF |
| VISITOR | **Search()**  **DisplayProjectInformation()** |  | **Signup()** |  |
| USER | **DisplayProjectInformation()**  **Search()**  **StartProject()**  **DisplayCargoListOfMyProject()**  **EditMyActiveProject()** | **Donate()**  **CancelDonation(**  **CompleteDonation()**  **VerifyCargo()**  **RejectCargo()** | **Login()**  **Logout()**  **DisplayOngoingDonation()**  **DisplayProfile()**  **DisplayDonatedProjects()**  **DisplayMyfinishedProjects()**  **DisplayMyActiveProjects()** | **InsertNewStuff()** |
| ADMIN | **DisplayProjectInformation()**  **Search()**  **VerifyProject()**  **RejectProject()**  **VerifyEdit()**  **RejectEdit()** |  | **Login()**  **Logout()** |  |