

用户 (User)
id: int + username: string # password: string # name: string # age: int + contact: string
+ setPassword(password: string): return boolean + getId(): return int + getName(): return string + getAge(): return int + login(username: string,password: string) + logout()

系统管理员 (Administrator)
- permissions: int
+ updateUser(username: string): return boolean + updateLoveFeedback(id: int): return boolean + reviewQualifications(user: user): return boolean - reviewDonation(user: teacher): return boolean - reviewOrder(user: volunteer): return boolean + manageCharitableMerchant() + manageBuyer() + manageTeam() + manageDonor()

捐赠者 (Donor)
- gender: int - donor_name: list<string>
+ setGender(gender:int): return: boolean + getGender()return int + queryTeam(): return list<string> + queryProject(): return string + submitDonation(donation: string): return boolean + queryDonation(): return string + queryCertificate(): return string + queryAcknowledgementList(): return list<string>

志愿团队 (Team)
- category: int - team_name: list<string>
+ setProject(project:int) + getProject(): return int + queryProject(): return list<string> + queryDonor(): return list<donor> + queryDonation(): return list<donation> + applyCourse(Application: file): return boolean + getProjectAnalysis(): return list<map<donation, string>> + modifyProject(): return boolean + getLoveFeedback(): return LoveFeedback

购买者 (Buyer)
- gender: int - buyer_name: list<string>
+ addOrder(order: int) + getOrder(): return int + queryOrder(): return list<string> + modifyOrder(): return boolean + getLoveFeedback(): return LoveFeedback

公益商户 (CharitableMerchant)
- category: int - charitable_merchant_name: list<string>
+ handleOrder() return boolean + getOrder(): return int + queryOrder(): return list<string> + queryBuyer(): return list<buyer> + getOrderAnalysis(): return list<map<order, string>> + getLoveFeedback(): return LoveFeedback