

Diagram illustrating the structure of a system, showing various entities and their relationships, organized into a hierarchical tree structure.

The entities are categorized into several main groups:

- Protocols**
  - Certificates:string
  - Name:int
  - PortNumber:int
  - Status:bool
  - DNSGroup:string
  - Network:string
  - Location:string
  - runTCPIP():void
  - runFTP():void
  - recieveTXT():void
  - recieveDocs():void
  - runHTTPS():void
  - rumSMTP():void
  - runCOP():void
  - runTelnet():void
  - runUsenet():void
- Servers**
  - Status:string
  - Location:string
  - PortNumbers:int
  - Host:string
  - User:string
  - Uploads:string
  - Admin:string
  - recieveServerUpdates():void
  - sendServerStatus():void
  - runServerCheck():void
- Clients**
  - Name:int
  - Affiliation:int
  - ClientID:int
  - Purchases:string
  - TransactionAmount:int
  - Location:string
  - About:string
  - sendClientstoDatabase():void
  - recieveClientEdits():void
  - verifyEdits():void
- Services**
  - Name:string
  - ServiceType:string
  - ServiceID:int
  - ServiceLocation:string
  - AssociatedProject:string
  - AssociatedClient:string
  - NumberOfUses:int
  - recieveServiceEdits():void
  - sendServicestoDatabase():void
  - recieveApplicationsforService():void
  - sendApptoSystemadmins():void
- Chatbots**
  - UserID:int
  - BotID:int
  - Location:string
  - Duration:int
  - Status:bool
  - InformationBank:string
  - Responses:string
  - recieveEdits():void
  - sendInteractionstoDataBase():void
  - retrieveAnswersfromDatabase():void
  - respondtoUsersandMembers():void
- Industries**
  - IndustryName:string
  - IndustryType:string
  - Products:string
  - Companies:string
  - Locations:string
  - Services:string
  - Careers:string
  - recieveEdits():void
  - sendtoDatabase():void
  - verifyEdits():void
- Products**
  - ProductID:int
  - ProductName:string
  - ProductLocation:string
  - ProductType:string
  - ProductPrice:int
  - ProductDescription:string
  - ProductStatus:string
  - manageInventory():void
  - recieveEdits():void
  - sendProductstoDatabase():void
  - seeifProductsinStock():void
- Contacts**
  - CompanyName:string
  - CompanyLocation:string
  - CompanyID:int
  - Department:string
  - Address:string
  - Employee:string
  - ContactType:string
  - recieveContactedits():void
  - sendContactstoDatabase():void
  - verifyEdits():void
- Projects**
  - ProjectID:int
  - ProjectType:string
  - AssociatedClient:string
  - ProjectName:string
  - ProjectDuration:int
  - ProjectStatus:string
  - ProjectLocation:string
  - recieveProjecteditits():void
  - sendProjectstoDatabase():void
  - verifyEdits():void
- Forums**
  - ForumUserID:int
  - ForumAuthor:string
  - PostedDate:int
  - ForumTitle:string
  - ForumReplies:string
  - Text:string
  - ForumCategory:string
  - sendtoDatabase():void
  - recieveEditstoForumsandPosts():void
  - flagPosts():void
- Tools**
  - Name:string
  - Version:int
  - Type:string
  - ToolsID:int
  - ServiceUsed:string
  - LenghtofUse:int
  - Provider:string
  - recieveTooledits():void
  - sendToolstoDatabase():void
  - sendToolstoUser():void
- Careers**
  - Resumes:string
  - Employee:string
  - Salary:int
  - Openings:int
  - Location:string
  - JobID:int
  - PostingDate:int
  - receiveApplications():void
  - recieveCareerEdits():void
  - sendCareerstoDatabase():void
  - sendApplicationstoDatabase():void
- Case\_Studies**
  - Author:string
  - CaseID:int
  - Client:string
  - Service:string
  - ProductsUsed:string
  - Text:string
  - Results:string
  - recieveEdits():void
  - sendtoDatabase():void
  - verifyEdits():void
- News**
  - Date:int
  - Time:int
  - ArticleTitle:string
  - Author:string
  - PublishedDate:int
  - Location:string
  - ArticleBody:string
  - recieveEdits():void
  - sendtodatabse():void
  - verifyEdits():void
- Demos**
  - DemoType:string
  - DemosID:int
  - DemoAuthor:string
  - Duration:int
  - Location:string
  - DemoVideo:demo
  - Comment:string
  - recieveEdits():void
  - sendtoDatabase():void
  - verifyEdits():void
- Awards**
  - AwardCategory:string
  - AwardID:int
  - AwardNominees:string
  - AwardRecipiants:string
  - AwardTitle:string
  - DateAwarded:int
  - AwardProduct:string
  - recieveEdits():void
  - sendtoDatabase():void
  - verifyEdits():void
- Members**
  - FName:string
  - Address:string
  - Email:string
  - MemberID:int
  - DOB:int
  - Lname:string
  - IPAddress:int
  - logOut():void
  - commentonThreads():void
  - createThreads():void
  - editProfile():void
  - viewClients():void
  - viewServices():void
  - voewTools():void
  - viewProjects():void
  - viewContacts():void
  - viewProducts():void
  - buyProducts():void
  - reviewProducts():void
  - logIn():void
  - viewCareers():void
  - applytoCareers():void
  - viewForums():void
  - viewCaseStudies():void
  - viewNews():void
  - interactwithChatbots():void
  - viewAwards():void
  - viewIndustries():void
  - viewDemos():void
  - applyforServices():void
  - denyLogin():void
  - sendMemberstoDatabase():void
- System\_Admins**
  - Name:string
  - EmployeeelD:int
  - Email:string
  - Address:string
  - PhoneNumber:int
  - Salary:int
  - Credentials:int
  - editClients():void
  - editCareers():void
  - updateServers():void
  - editTools():void
  - editProjects():void
  - recieveServerStatus():void
  - editProducts():void
  - implementDatabaseMaintnance():void
  - editContacts():void
  - editServices():void
  - editCasestudies():void
  - editForumsandPosts():void
  - manageChatbots():void
  - removeMembers():void
  - removeUsers():void
  - editDemos():void
  - editNews():void
  - viewMembers():void
  - viewUsers():void
  - editIndustries():void
  - editAwards():void
  - requestServerstatusreport():void
  - recieveServiceApps():void
  - recieveVerification():void
- Users**
  - UserID:int
  - UserLocation:string
  - Cookies:int
  - Permission:string
  - IPAddress:int
  - Name:string
  - DateAccessed:int
  - viewClients():void
  - viewServices():void
  - viewTools():void
  - viewProjects():void
  - viewContacts():void
  - viewProducts():void
  - buyProducts():void
  - reviewProducts():void
  - login():void
  - viewCareers():void
  - applytoCareers():void
  - viewForums():void
  - viewCaseStudies():void
  - viewNews():void
  - interactwithChatbots():void
  - viewAwards():void
  - viewIndustries():void
  - viewShoppingcart():void
  - viewDemos():void
  - applyforServices():void
  - denyLogin():void
  - senUserstoDatabase():void
- Databases**
  - Name:string
  - Employees:string
  - Tools:string
  - Forums:string
  - Services:string
  - Careers:string
  - Clients:string
  - recievemaintnanceProcedures():void
  - storeProjects():void
  - storeTools():void
  - storeClients():void
  - storeNews():void
  - storeServices():void
  - storeCareers():void
  - storeCaseStudies():void
  - storeContacts():void
  - storeDemos():void
  - storeAwards():void
  - storeProducts():void
  - storeChatbotInteractions():void
  - storeJobApplications():void
  - sendAwards():void
  - storeForumsandPosts():void
  - sendProjects():void
  - sendTools():void
  - sendClients():void
  - sendNews():void
  - sendCareers():void
  - sendCaseStudies():void
  - sendContacts():void
  - sendForumPosts():void
  - sendIndustries():void
  - sendProducts():void
  - sendDemos():void
  - sendMemberListtoSysAdmin():void
  - sendUserListtoSysAdmin():void