# Design Classes

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| PMRS |
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| +GetUser(User): Boolean  +AddUser(User): Boolean  +GetRoles(User): String  +UploadResume(String: resume): Boolean  +AddCandidate(User): Boolean  +AddUserProfessions(Int: userID, Int: professionID): Boolean  +AddUserSkill(Int: userID, Int: skillID): Boolean  +AddUserRegions(Int: userID, int RegionID): Boolean  +GetUserIDByEmail (String: email): Int  +GetProfessions(): Profession[]  +GetSkillsets(): Skillset[]  +GetRegions(): Region[]  +GetAllJobPostings(): JobPosting[\*]  +GetQualifiedCandidates(Int: jobPostingID): User[\*]  +AssignCandidateToJobPosting(Int: userID, Int: jobPostingID): Boolean  +AddRegion(String: description): Boolean  +AddProfession(String: professionDescription): Boolean  +AddSkillset(String: skillsetDescription, Int: professionID) |

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| Users |
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| +ComputeSha256Hash(String: Password): String  +CreatePasswordHash(String: Password, String: Salt): String  +CreateSalt(Int: size): String  +GetUser (User): Boolean  +AddUser(User): Boolean  +AddCandidate(User): Boolean  +UploadResume(String: resume): Boolean  +GetUserIDByEmail(String: email)  +GetRoles(User): String |

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| Administrators |
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| +GetQualifiedCandidates(Int: jobPostingID): User[\*]  +AddCandidateToJobPosting (Int: userID, Int: jobPostingID): Boolean |

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| JobPostings |
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| +GetAllJobPostings(): JobPosting[\*] |

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| Professions |
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| +AddUserProfessions(Int: userID, Int: professionID): Boolean  +GetProfessions(): Profession[]  +AddProfession(String: professionDescription): Boolean |

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| Regions |
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| +AddUserRegions(Int: userID, int RegionID): Boolean  +GetRegions(): Region[]  +AddRegion(String: description): Boolean |

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| Skillsets |
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| +AddUserSkill(Int: userID, Int: skillID): Boolean  +GetSkillsets(): Skillset[]  +AddSkillset(String: skillsetDescription, Int: professionID) |

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| User |
| +UserID: Int  +UserEmail: String  +Phone: String  +FirstName: String  +LastName: String  +Resume: String  +CoverLetter: String  +UserPassword: String  +UserSalt: String  +ActiveInactive: Boolean  +Profession: String  +Region: String  +Skillset: String |

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| JobPosting |
| JobPostingID: Int  CompanyName: String  Description: String |

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| Profession |
| ProfessionID: Int  Description: String |

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| Region |
| RegionID: Int  Description: String |

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| Skillset |
| SkillsetID: Int  Description: String  ProfessionID: Int |