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| --- | --- |
| User | |
| UserID  Username  Password  Email Address  First Name  Last Name  SessionID History  isAdmin | Session |

|  |  |
| --- | --- |
| Webcrawler | |
| JobID  List of Spiders  StartCrawling | Spider  Job |

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| --- | --- |
| JobScheduler | |
| List of JobIDs  StartWebCrawler  TerminateWebCrawler  NotifyUser | Webcrawler  Job |

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| --- | --- |
| Job | |
| JobID  List of monitor sites  List of source sites  Schedule start time  Completed Notification method  CrawledData  Add/Remove source site  Add/Remove monitor site  AddCrawledData | Sites  CrawledData |

|  |  |
| --- | --- |
| Spider | |
| Source Site  List of keywords to catch  returnCrawledData | CrawledData |

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| --- | --- |
| Site | |
| URL  Aliases |  |

|  |  |
| --- | --- |
| Article | |
| Publish time  Title  HTML source  URL |  |

|  |  |
| --- | --- |
| Reference | |
| Monitor Article  Source Article | Article |

|  |  |
| --- | --- |
| Data-Converter | |
| CrawledData  ExportToWebARC  ExportToCSV  ExportToJSON | CrawledData |

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| --- | --- |
| Session | |
| SessionID  List of JobIDs  AddJob | Job |

|  |  |
| --- | --- |
| CrawledData | |
| ListOfReferences  Start crawl time  End crawl time  Number of References from (Site)  Number of References to (Site)  Number of References between Date | Reference  Site |

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| --- | --- |
| Visualizer | |
| CrawledData  View data as table  View data as graph  View data as chart | CrawledData |

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| --- | --- |
| Main | |
| Current User  Current Session  User Database  Session Database  Visualizer  Data-Converter  Create New User  Reset Password  Forgot Username  Login  Logout  Compare Sessions  Display User’s Past Sessions  Display Session’s Results  Create New Session  Create New Job  Send Job to WebScheduler  Export Results to File via Data-Converter | User  User Database  Session  Session Database  Job  Job Database  Visualizer  WebScheduler  Data-Converter |

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| --- | --- |
| UserDatabase | |
| List of Users  AddUser  RemoveUser  ModifyUser  FindUserByEmail  FindUserByName | User |

|  |  |
| --- | --- |
| Session Database | |
| List of Sessions  AddNewSession  FindSessionByID | Session |

|  |  |
| --- | --- |
| JobDatabase | |
| List of Jobs  AddNewJob  FindJobByID | Job |