JSON STRUCTURES

UserCollection
```
db.createCollection("UserCollection");
db.UserCollection.insert(
[{
        "employeeName": "Ajay Krishna Akineni",
        "_id": "SSK001",
        "password": "ajayakki",
        "organizationRole": "Manager",
        "projects": [{
        "projectIndexId": "chem01",
        "projectName": "Simulated Distillaries",
        "projectRole": ["Manager", "Architect"]
        }]
        }, {
        "employeeName": "Arul Dhana Saam Prakash",
        "_id": "SSK002",
        "password": "aruldhana",
        "organizationRole": "Developer",
        "projects": [{
        "projectIndexId": "chem01",
        "projectName": "Simulated Distillaries",
        "projectRole": ["Developer"]
        }, {
        "projectIndexId": "chem02",
        "projectName": "Simulated Boiler Plants",
        "projectRole": ["Developer"]
        }]
        },

        {
        "employeeName": "Dinesh PD",
        "_id": "SSK003",
        "password": "dineshpd",
        "organizationRole": "Developer",
        "projects": [{
        "projectIndexId": "chem01",
        "projectName": "Simulated Distillaries",
```

"projectRole": ["Grouplead"]
}, {
"projectIndexId": "chem02",
"projectName": "Simulated Boiler Plants",
"projectRole": ["Developer"]
}]
},

{
"employeeName": "Tejasvini Rachupudi",
"_id": "SSK004",
"password": "trachup",
"organizationRole": "Tester",
"projects": [{
"projectIndexId": "chem01",
"projectName": "Simulated Distillaries",
"projectRole": ["Tester"]
}, {
"projectIndexId": "chem02",
"projectName": "Simulated Boiler Plants",
"projectRole": ["Tester"]
}]
},

{
"employeeName": "Aparanna Raghuraman",
"_id": "SSK005",
"password": "aparannar",
"organizationRole": "Developer",
"projects": [{
"projectIndexId": "chem01",
"projectName": "Simulated Distillaries",
"projectRole": ["Developer"]
}]
},

{
"employeeName": "Aishwarya Arthanaeshwaran",
"_id": "SSK006",

```
        "password": "aishwarya",
        "organizationRole": "Manager",
        "projects": [{
        "projectIndexId": "chem02",
        "projectName": "Simulated Boiler Plants",
        "projectRole": ["Manager"]
        }]
        },

        {
        "employeeName": "Sriram J",
        "_id": "SSK007",
        "password": "sriramj",
        "organizationRole": "Developer",
        "projects": [{
        "projectIndexId": "chem02",
        "projectName": "Simulated Boiler Plants",
        "projectRole": ["Grouplead"]
        }]
        }
]
);
```

Project Collection:

```
db.createCollection("ProjectCollection");
db.ProjectCollection.insert(
[{
        "_id": "chem01",
        "projectName": "Simulated Distillaries",
        "description": "This project is for simulating the working of distillaries",
        "model": {
        "_id": "chem01Model",
        "lastCommit": "dateTimeOfFormat2013-10-21T13:28:06.419Z",
        "parent": [],
        "children": [],
        "entities": [{
        "_id": "requirement",
        "propertiesId": "requirementChem01ModelProperties",
```

```json
        "linkedTo": ["requirement", "testing"],
        "rolesWithWriteAcess": ["BusinessAnalyst", "Architect", "GroupLead"],
        "rolesWithReadAcess": ["Architect", "BusinessAnalyst", "GroupLead", "Tester"],
        "groupLeadID": "SSK01",
        "isSoftDelete": false
        }, {
        "_id": "testing",
        "propertiesId": "testingChem01ModelProperties",
        "linkedTo": ["testing", "requirement"],
        "rolesWithWriteAcess": ["Tester", "GroupLead", "Architect"],
        "rolesWithReadAcess": ["Architect", "BusinessAnalyst", "GroupLead", "Tester"],
        "groupLeadID": "SSK06",
        "isSoftDelete": false
        }]
        }

}, {
        "_id": "chem02",
        "projectName": "Simulated Boiler Plants",
        "description": "This project is for simulating the working of boiler plants",
        "model": {
        "_id": "chem01Model",
        "lastCommit": "dateTimeOfFormat2013-10-21T13:28:06.419Z",
        "parent": [],
        "children": [],
        "entities": [{
        "_id": "requirement",
        "propertiesId": "requirementChem01ModelProperties",
        "linkedTo": ["requirement", "testing"],
        "rolesWithWriteAcess": ["BusinessAnalyst", "Architect", "GroupLead"],
        "rolesWithReadAcess": ["Architect", "BusinessAnalyst", "GroupLead", "Tester"],
        "groupLeadID": "SSK01",
        "isSoftDelete": false
        }, {
        "_id": "testing",
        "propertiesId": "testingChem01ModelProperties",
        "linkedTo": ["testing", "requirement"],
        "rolesWithWriteAcess": ["Tester", "GroupLead", "Architect"],
        "rolesWithReadAcess": ["Architect", "BusinessAnalyst", "GroupLead", "Tester"],
```

```
            "groupLeadID": "SSK06",
            "isSoftDelete": false
        }]
        }
}]
);
```

Instance Collection:

```
[{
    "_id": "Project1",
    "requirement": [{
        "_id": "instance1",
        "LinkedTo": [{
                "entity": "design",
                "instances": [
                        "instance3",
                        "instance4"
                ]
        }, {
                "entity": "requirement",
                "instances": [
                        "instance2"
                ]
        }],
        "InstanceID": "001",
        "Name": "Requirement 1",
        "Description": "Creating thermodynamic equation packages",
        "Status": "Completed",
        "Priority": "Medium"
    }, {
        "_id": "instance2",
        "LinkedTo": [{
                "entity": "design",
                "instances": [
                        "instance3",
                        "instance4"
```

```
                    ]
            }, {
                    "entity": "requirement",
                    "instances": [
                            "instance2"
                    ]
            }],
            "InstanceID": "002",
            "Name": "Requirement 2",
            "Description": "Describing pump parameters",
            "Status": "Completed",
            "Priority": "Medium"
    }, {
            "_id": "instance7",
            "LinkedTo": "[]",
            "InstanceID": "008",
            "Name": "Requirement 8",
            "Description": "Boiler pump equations",
            "Status": "In Progress",
            "Priority": "High"
    }],
    "testing": [{
            "_id": "instance3",
            "LinkedTo": [{
                    "entity": "design",
                    "instances": [
                            "instance3",
                            "instance4"
                    ]
            }, {
                    "entity": "requirement",
                    "instances": [
                            "instance2"
                    ]
            }],
            "InstanceID": "001",
            "Name": "Testing 1",
            "Description": "Test case for thermodynamic calculations",
            "Status": "In Progress",
```

```json
            "Priority": "Medium"
        }, {
            "_id": "instance4",
            "LinkedTo": [{
                    "entity": "design",
                    "instances": [
                            "instance3",
                            "instance4"
                    ]
            }, {
                    "entity": "requirement",
                    "instances": [
                            "instance2"
                    ]
            }],
            "InstanceID": "002",
            "Name": "Testing 1",
            "Description": "Testcases for pump parameters",
            "Status": "In Progress",
            "Priority": "Medium"
        }]
    }, {
        "_id": "Project2",
        "requirement": [{
            "_id": "instance1",
            "LinkedTo": [
                    "instance3"
            ],
            "InstanceID": "001",
            "Name": "Requirement 1",
            "Description": "Creating thermodynamic equation packages",
            "Status": "In Progress",
            "Priority": "Medium"
        }, {
            "_id": "instance2",
            "LinkedTo": [
                    "instance4"
            ],
            "InstanceID": "002",
```

```
            "Name": "Requirement 2",
            "Description": "Describing pump parameters",
            "Status": "Completed",
            "Priority": "Medium"
    }],
    "testing": [{
            "_id": "instance3",
            "LinkedTo": [
                    "instance1"
            ],
            "InstanceID": "001",
            "Name": "Testing 1",
            "Description": "Test case for thermodynamic calculations",
            "Status": "In Progress",
            "Priority": "Medium"
    }, {
            "_id": "instance4",
            "LinkedTo": [
                    "instance2"
            ],
            "InstanceID": "002",
            "Name": "Testing 1",
            "Description": "Testcases for pump parameters",
            "Status": "In Progress",
            "Priority": "Medium"
    }]
}]
```

Properties Collection:

```
[
    {
      "_id" : "requirementChem01ModelProperties",
      "html" : [
          {
                "_id" : "textrequirementId",
                "name" : "RequirementId",
                "id" : "textrequirementId",
              "name" : "textrequirementId",
```

```
                    "caption" : "ReqId",
                    "type" : "text",
                    "placeholder" : "",
                    "validate" : {
                            "required" : true,
                            "messages" : {
                                    "required" : "Required input"
                            }
                    }
            },
            {
                    "_id" : "textrequirementName",
                    "name" : "textrequirementName",
                    "id" : "textrequirementName",
                    "caption" : "ReqName",
                    "type" : "text",
                    "placeholder" : "",
                    "validate" : {
                            "required" : true,
                            "messages" : {
                                    "required" : "Required input"
                            }
                    }
            },
            {
                    "_id" : "textrequirementauthor",
                    "name" : "textrequirementauthor",
                    "id" : "textrequirementauthor",
                    "caption" : "ReqAuthor",
                    "type" : "text",
                    "placeholder" : "",
                    "validate" : {
                            "required" : true,
                            "messages" : {
                                    "required" : "Required input"
                            }
                    }
            },
            {
```

```json
        "_id" : "selectrequirementstatus",
        "id" : "selectrequirementstatus",
        "type" : "select",
        "name" : "selectrequirementstatus",
        "caption" : "Status",
        "options" : {
                "inprogress" : {
                                id:"inprogress",
                                name:"inprogress",
                                caption:"In Progress",
                                },
                "closed" : {
                                id:"closed",
                                name:"closed",
                                caption:"Closed",
                            },
                "open" : {
                                id:"open",
                                name:"open",
                                caption:"Open",
                        }
            }
    },
    {

        "_id" : "selectrequirementpriority",
        "id" : "selectrequirementpriority",
        "type" : "select",
        "name" : "selectrequirementpriority",
        "caption" : "Priority",
        "options" : {
                "critical" : "Critical",
                "minor" : "Minor",
                "major" : {
                        "selected" : "selected",
                        "html" : "Major"
                    }
            }
    },
    {
```

```json
                    "_id" : "submitrequirementcreate",
                    "type" : "submit",
                    "name" : "Create",
                    "id" : "submitrequirementcreate",
                    "value" : "Create"
                }
            ]
        },
        {
            "_id": "testingChem01ModelProperties",
            "html" : [
                {
                    "_id" : "texttestingdefectId",
                    "name" : "DefectId",
                    "id" : "texttestingdefectId",
                    "caption" : "DefectId",
                    "type" : "text",
                    "placeholder" : "",
                    "validate" : {
                        "required" : true,
                        "messages" : {
                            "required" : "Required input"
                        }
                    }
                },
                {
                    "_id" : "texttestingdefectName",
                    "name" : "DefectName",
                    "id" : "texttestingdefectName",
                    "caption" : "DefectName",
                    "type" : "text",
                    "placeholder" : "",
                    "validate" : {
                        "required" : true,
                        "messages" : {
                            "required" : "Required input"
                        }
                    }
                },
```

```json
{
     "_id" : "texttestingcreatedBy",
     "name" : "CreatedBy",
     "id" : "texttestingcreatedBy",
     "caption" : "ReqCreatedBy",
     "type" : "text",
     "placeholder" : "",
     "validate" : {
          "required" : true,
          "messages" : {
               "required" : "Required input"
          }
     }
},
{
     "_id" : "selecttestingstatus",
     "id" : "selecttestingstatus",
     "type" : "select",
     "name" : "Status",
     "caption" : "Status",
     "options" : {
          "inprogress" : "InProgress",
          "closed" : "Closed",
          "open" : {
               "selected" : "selected",
               "html" : "Open"
          }
     }
},
{
     "_id" : "selecttestingseverity",
     "id" : "selecttestingseverity",
     "type" : "select",
     "name" : "Severity",
     "caption" : "Severity",
     "options" : {
          "critical" : "Critical",
          "minor" : "Minor",
          "major" : {
```

```
                                    "selected" : "selected",
                                    "html" : "Major"
                              }
                        }
                  },
                  {
                        "_id" : "selecttestingdefecttype",
                        "id" : "selecttestingdefecttype",
                        "type" : "select",
                        "name" : "DefectType",
                        "options" : {
                              "coding" : "Coding Defect",
                              "businesscontext" : "Business Context Defect",
                              "requirement" : {
                                    "selected" : "selected",
                                    "html" : "Improper Requirement"
                              }
                        }
                  },
                  {
                        "_id" : "submittestingcreate",
                        "type" : "submit",
                        "name" : "Create",
                        "id" : "submittestingcreate",
                        "value" : "Create"
                  }

            ]
      }
]
```