# Sri Lanka Institute of Information Technology



### Project Progressive Report Information Technology Project (IT2080) 2025

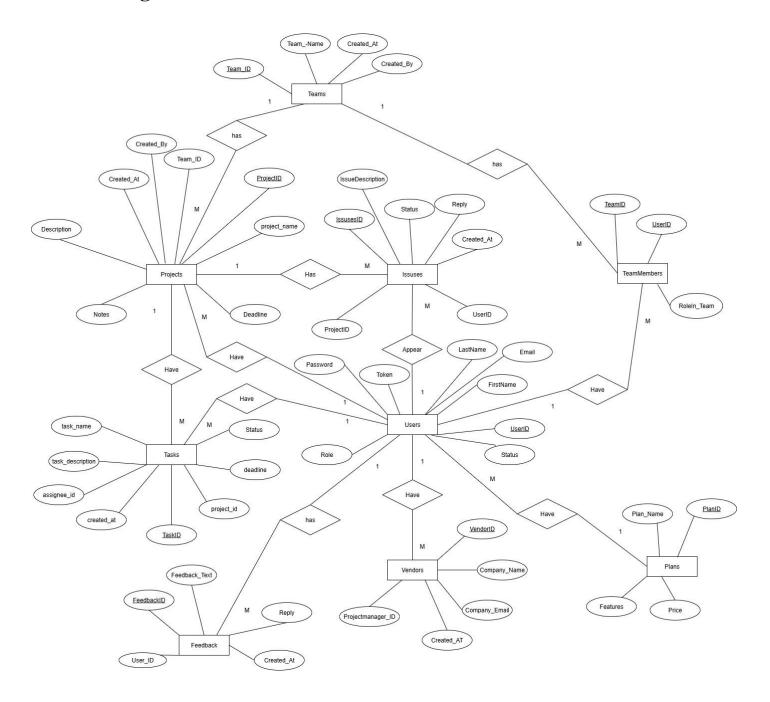
# ProJectra – Project Management App

Group: IT25\_NU10

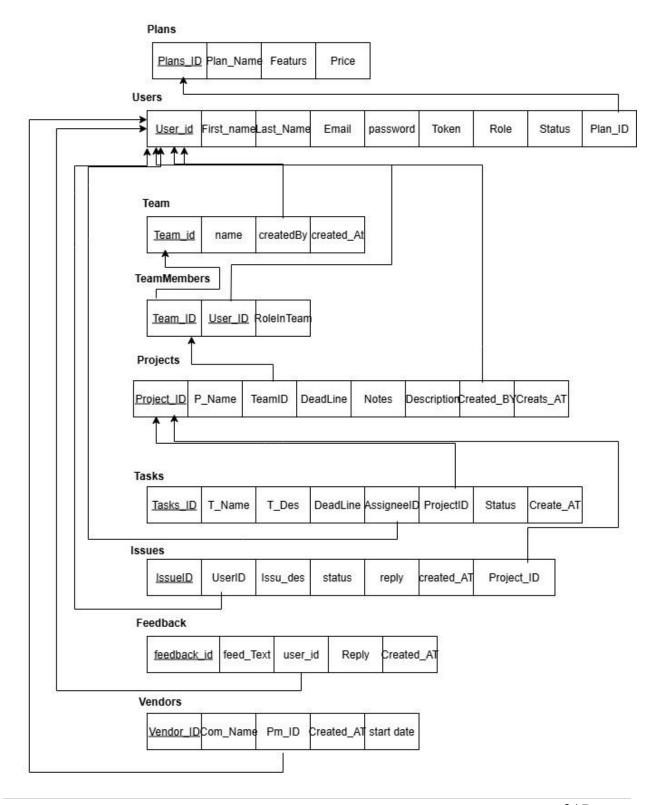
#### **Team members**

	Name with Initials	Registration	Contact	Email
		Number	Number	
1	K.Seyon	IT2375272	071 399 4431	IT23752672@mysliit.lk
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# **ER Diagram**



### **Normalized Schema**



#### DataBase(MongoDB)

```
1. Users Collection
```

```
db.createCollection("Users")
db.Users.createIndex({ email: 1 }, { unique: true }) // Ensure unique emails
db.Users.createIndex({ planId: 1 })
                                            // Index for subscriptions
Input Data:
 "_id": ObjectId("..."),
 "firstName": "Seyon",
 "lastName": "Kokulan",
 "email": "seyonoyes@gmail.com",
 "passwordHash": "hashed pw",
 "token": "abc123",
 "role": "Project Manager",
 "status": "Active",
 "planId": ObjectId("...")
2. Teams Collection
db.createCollection("Teams")
db.Teams.createIndex({ createdBy: 1 }) // Who created team
Input Data:
 "_id": ObjectId("..."),
 "teamName": "Backend Team",
 "createdBy": ObjectId("..."),
 "createdAt": ISODate("2025-09-17T10:00:00Z")
3. TeamMembers Collection (Junction Table M:N)
db.createCollection("TeamMembers")
db.TeamMembers.createIndex({ teamId: 1, userId: 1 }, { unique: true }) // Prevent duplicates
Input Data:
```

```
"_id": ObjectId("..."),
 "teamId": ObjectId("..."),
 "userId": ObjectId("..."),
 "roleInTeam": "Lead",
 "joinedAt": ISODate("2025-09-17T11:00:00Z")
4. Projects Collection
db.createCollection("Projects")
db.Projects.createIndex({ teamId: 1 })
db.Projects.createIndex({ createdBy: 1 })
Input Data:
 " id": ObjectId("..."),
 "projectName": "Mobile App Development",
 "teamId": ObjectId("..."),
 "deadline": ISODate("2025-12-31T00:00:00Z"),
 "notes": "Important project",
 "description": "Cross-platform app",
 "createdBy": ObjectId("..."),
 "createdAt": ISODate("2025-09-17T10:30:00Z")
5. Tasks Collection
db.createCollection("Tasks")
db.Tasks.createIndex({ projectId: 1 })
db.Tasks.createIndex({ assigneeId: 1 })
Input Data:
 "_id": ObjectId("..."),
 "taskName": "Setup CI/CD",
 "taskDescription": "Configure GitHub Actions",
 "deadline": ISODate("2025-10-01T00:00:00Z"),
 "assigneeId": ObjectId("..."),
 "projectId": ObjectId("..."),
 "status": "In Progress",
 "createdAt": ISODate("2025-09-17T11:00:00Z")
```

```
6. Issues Collection
```

```
db.createCollection("Issues")
db.Issues.createIndex({ projectId: 1 })
db.Issues.createIndex({ userId: 1 })
Input Data:
 "_id": ObjectId("..."),
 "projectId": ObjectId("..."),
 "userId": ObjectId("..."),
 "issueDescription": "API not responding",
 "status": "Pending",
 "reply": null,
 "createdAt": ISODate("2025-09-17T12:00:00Z")
7. Feedback Collection
db.createCollection("Feedback")
db.Feedback.createIndex({ userId: 1 })
Input Data:
 "_id": ObjectId("..."),
 "userId": ObjectId("..."),
 "feedbackText": "Great platform!",
 "reply": null,
 "createdAt": ISODate("2025-09-17T13:00:00Z")
}
8. Vendors Collection
db.createCollection("Vendors")
db.Vendors.createIndex({ pmId: 1 })
Input Data:
 "_id": ObjectId("..."),
```

```
"companyName": "Tech Solutions Ltd",
"companyEmail": "contact@techsolutions.com",
"pmId": ObjectId("..."),
"createdAt": ISODate("2025-09-17T14:00:00Z")

9. Plans Collection

db.createCollection("Plans")

db.Plans.createIndex({ planName: 1 }, { unique: true })

Input Data:

{
    "__id": ObjectId("..."),
    "planName": "Premium",
    "features": ["Unlimited Projects", "Priority Support"],
    "price": 99.99
```