# **MongoDB CRUD Skill Exchange Platform**

## **1. Users Collection**

### **Insert**

db.users.insertOne({

username: "alice",

email: "alice@mail.com",

skillsOffered: ["Yoga"],

skillsNeeded: ["Design"],

location: "Mumbai",

points: 120

})

### **Find**

db.users.find({ location: "Mumbai" })

{

\_id: ObjectId("6881ee2c6e582a8b2dfe5e9a"),

username: 'alice',

email: 'alice@mail.com',

skillsOffered: [

'Yoga'

],

skillsNeeded: [

'Design'

],

location: 'Mumbai',

points: 120

}

{

\_id: ObjectId("6881fc4fff59960e56f25a8e"),

username: 'alice',

email: 'alice@mail.com',

skillsOffered: [

'Yoga'

],

skillsNeeded: [

'Design'

],

location: 'Mumbai',

points: 120

}

### **Update**

b.users.updateOne(

{ email: "alice@mail.com" },

{ $set: { location: "Pune" } }

)

### **Delete**

db.users.deleteOne({ email: "alice@mail.com" })

## **2. Reviews Collection**

### **Insert**

db.reviews.insertOne({

from: "alice",

to: "bob",

skillReviewed: "Photography",

rating: 5,

comment: "Excellent session!",

date: new Date()

})

### **Find**

db.reviews.find({ to: "bob" })

{

\_id: ObjectId("6881edab6e582a8b2dfe5e82"),

from: 'alice',

to: 'bob',

skillReviewed: 'Photography',

rating: 5,

comment: 'Amazing photo session, learned a lot!',

date: '2025-07-21T12:00:00Z'

}

{

\_id: ObjectId("6881edab6e582a8b2dfe5e86"),

from: 'grace',

to: 'bob',

skillReviewed: 'Photography',

rating: 4.5,

comment: 'Great tips and very practical.',

date: '2025-07-19T10:45:00Z'

}

{

\_id: ObjectId("6881fc76ff59960e56f25a8f"),

from: 'alice',

to: 'bob',

skillReviewed: 'Photography',

rating: 5,

comment: 'Excellent session!',

date: 2025-07-24T09:27:18.897Z

}

### **Update**

db.reviews.updateOne(

{ from: "alice", to: "bob" },

{ $set: { rating: 4, comment: "Updated session rating." } }

)

### **Delete**

db.reviews.deleteOne({ from: "alice", to: "bob" })

## **3. Messages Collection**

### **Insert**

db.messages.insertOne({

sender: "carol",

receiver: "dan",

message: "Ready for our session?",

timestamp: new Date(),

isRead: false

})

### **Find**

db.messages.find({ receiver: "dan", isRead: false })

{

\_id: ObjectId("6881fc8dff59960e56f25a90"),

sender: 'carol',

receiver: 'dan',

message: 'Ready for our session?',

timestamp: 2025-07-24T09:27:41.925Z,

isRead: false

}

### **Update**

db.messages.updateOne(

{ sender: "carol", receiver: "dan" },

{ $set: { isRead: true } }

)

### **Delete**

db.messages.deleteOne({ sender: "carol", receiver: "dan" })

## **4. Schedules Collection**

### **Insert**

db.schedules.insertOne({

user1: "alice",

user2: "bob",

skill: "Photography",

date: ISODate("2025-07-27T16:00:00Z"),

location: "Online",

status: "scheduled"

})

### **Find**

db.schedules.find({ status: "scheduled" })

{

\_id: ObjectId("6881f1316e582a8b2dfe5ea8"),

user1: 'alice',

user2: 'bob',

skill: 'Photography',

date: '2025-07-27T16:00:00Z',

location: 'Online',

status: 'scheduled'

}

{

\_id: ObjectId("6881f1316e582a8b2dfe5ea9"),

user1: 'carol',

user2: 'dan',

skill: 'Painting',

date: '2025-07-28T14:00:00Z',

location: 'Chennai',

status: 'scheduled'

}

{

\_id: ObjectId("6881f1316e582a8b2dfe5eac"),

user1: 'henry',

user2: 'carol',

skill: 'JavaScript',

date: '2025-07-29T15:00:00Z',

location: 'Online',

status: 'scheduled'

}

{

\_id: ObjectId("6881f1316e582a8b2dfe5ead"),

user1: 'irene',

user2: 'emma',

skill: 'Graphic Design',

date: '2025-07-30T13:00:00Z',

location: 'Hyderabad',

status: 'scheduled'

}

{

\_id: ObjectId("6881f1316e582a8b2dfe5eaf"),

user1: 'dan',

user2: 'irene',

skill: 'Digital Marketing',

date: '2025-07-28T17:00:00Z',

location: 'Online',

status: 'scheduled'

}

{

\_id: ObjectId("6881f1316e582a8b2dfe5eb0"),

user1: 'bob',

user2: 'jack',

skill: 'UX Design',

date: '2025-07-29T10:00:00Z',

location: 'Jaipur',

status: 'scheduled'

}

{

\_id: ObjectId("6881fca1ff59960e56f25a91"),

user1: 'alice',

user2: 'bob',

skill: 'Photography',

date: 2025-07-27T16:00:00.000Z,

location: 'Online',

status: 'scheduled'

}

### **Update**

db.schedules.updateOne(

{ user1: "alice", user2: "bob" },

{ $set: { status: "completed" } }

)

### **Delete**

db.schedules.deleteOne({ user1: "alice", user2: "bob" })