

Experiment 10: Build Role-Based Access Control (RBAC) with Admin/User/Moderator Roles

Code Implementation:

Sample User Object in MongoDB:

```
{
  "id": "123",
  "name": "Amogh",
  "role": "admin"
}
```

Role Check Middleware:

```
function authorizeRoles(...allowedRoles) {
  return (req, res, next) => {
    const userRole = req.user.role;
    if (!allowedRoles.includes(userRole)) {
      return res.status(403).json({ message: "Access denied" });
    }
    next();
  };
}
```

Protected Role-Specific Route:

```
app.get('/admin-panel', verifyToken, authorizeRoles('admin'), (req, res) => {
  res.send('Welcome to admin panel');
});
```