

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');  
});
```