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1.搭建JWT后端环境

```
cnpm i express cors jsonwebtoken cookie-parser morgan mongoose bcryptjs -S  
cnpm i nodemon -g
```

2.启动服务

app.js

```
const express=require('express');  
const cors=require('cors');  
const path=require('path');  
const logger=require('morgan');  
const cookieParser=require('cookie-parser');  
const indexRouter=require('./routes/index');  
const usersRouter=require('./routes/users');  
const app=express();  
app.use(cors());  
app.use(logger('dev'));  
app.use(express.json());  
app.use(express.urlencoded({extended: false}));  
app.use(cookieParser());  
app.use('/',indexRouter);  
app.use('/users',usersRouter);  
app.listen(3000,()=> console.log('server started at port 3000'));
```

routes/index.js

```
const express=require('express');  
const router=express.Router();  
router.get('/',function (req,res) {  
  res.send('index');  
});  
module.exports=router;
```

routes/users.js

```
const express=require('express');  
const router=express.Router();  
router.get('/',function (req,res) {  
  res.send('users');  
});  
module.exports=router;
```

```
"scripts": {  
  "start": "nodemon ./app.js"  
},
```

3.用户接口

config.js

```
module.exports={  
  PORT: 3000,  
  DB_URL:"mongodb://localhost/userSystem"  
}
```

routes/users.js

```
const express=require('express');  
const User=require('../models/user');  
const router=express.Router();  
router.post('/signup',async function (req,res) {  
  let user=new User(req.body);  
  try {  
    await user.save();  
    res.json({  
      code: 0,  
      data:user  
    });  
  } catch (error) {  
    res.json({  
      code: 1,  
      error  
    });  
  }  
});  
module.exports=router;
```

models/index.js

```
const {DB_URL} = require('../config');  
const mongoose=require('mongoose');  
let connection=mongoose.createConnection(DB_URL);  
module.exports=connection;
```

models/user.js

```

const mongoose=require('mongoose');
const connection=require('./index');
const Schema=mongoose.Schema;
const UserSchema=new Schema({
  username: {type: String,unique: true},
  password:{type:String}
},{timestamps:true});
const User=connection.model('User',UserSchema);
module.exports=User;

```

4.密码加密

models/user.js

```

UserSchema.pre('save',function (next) {
  bcrypt.genSalt(10,(err,salt)=>{
    bcrypt.hash(this.password,salt,(err,hash) => {
      this.password=hash;
      next();
    });
  });
});
UserSchema.methods.comparePassword=function (password) {
  return bcrypt.compareSync(password,this.password);
}

```

routes/users.js

```

const express=require('express');
const User=require('../models/user');
const router=express.Router();
router.post('/signup',async function (req,res) {
  let user=new User(req.body);
  try {
    await user.save();
    res.json({
      code: 0,
      data: {
        id: user._id,
        username:user.username
      }
    });
  } catch (error) {
    res.json({
      code: 1,
      error
    });
  }
});
router.post('/signin',async (req,res) => {
  const {username,password}=req.body;
  try {
    const user=await User.findOne({username});
    if (user && user.comparePassword(password)) {
      res.json({
        code: 0,
        data: {
          id: user._id,
          username:user.username
        }
      });
    } else {
      res.status(403).json({
        code: 1,
        error:'用户名或密码错误'
      });
    }
  } catch (error) {
    res.status(403).json({
      code: 1,
      error
    });
  }
});
module.exports=router;

```

5.JWT认证

```

module.exports={
  PORT: 3000,
  DB_URL: "mongodb://localhost:27017/userSystem",
  SECRET:"zfxp"
}

```

```

let connection=mongoose.createConnection(DB_URL,{ useNewUrlParser: true })

```

```

const {sign,verify}=require('../utils/jwt');
router.post('/signin',async (req,res) => {
  const {username,password}=req.body;
  try {
    const user=await User.findOne({username});
    if (user && user.comparePassword(password)) {
      res.json({
        code: 0,
        data: {
          token:sign({username:user.username})
        }
      });
    } else {
      res.status(403).json({
        code: 1,
        error:'用户名或密码错误'
      });
    }
  } catch (error) {
    res.status(403).json({
      code: 1,
      error
    });
  }
})
router.get('/signout',verify,(req,res) => {
  res.json({
    code: 0,
    data:'退出登录成功!'
  });
});
});

```

```

const jwt=require('jsonwebtoken');
const {SECRET}=require('../config');
const sign=user => {
  return jwt.sign(user,SECRET,{
    expiresIn:10
  });
}
const verify=(req,res,next) => {
  const token=req.headers.authorization;
  if (token) {
    jwt.verify(token,SECRET,(err,data)=>{
      if (err) {
        if (err.name == 'TokenExpiredError') {
          return res.status(401).json({
            code: 1,
            error:'token已经过期!'
          });
        } else {
          return res.status(401).json({
            code: 1,
            error:'token认证失败!'
          });
        }
      }
      next();
    })
  } else {
    return res.status(401).json({
      code: 1,
      error:'请提供token'
    });
  }
}
module.exports={
  sign,
  verify
}

```

6.管理员发表文章管理

```

const articlesRouter=require('../routes/articles');
app.use('/articles',articlesRouter);

```

```

const mongoose=require('mongoose');
const connection=require('../index');
const Schema=mongoose.Schema;
const ArticleSchema=new Schema({
  title: {type: String},
  content: {type: String}
},{timestamps: true});
const Article=connection.model('Article',ArticleSchema);
module.exports=Article;

```

```

const Schema=mongoose.Schema;
const UserSchema=new Schema({
  username: {type: String,unique: true},
  password:{type:String}
+   password: {type: String},
+   admin:{type:Boolean,default:false}
},{timestamps: true});
UserSchema.pre('save',function (next) {
  bcrypt.genSalt(10,(err,salt)=>{

```

```

const express=require('express');
const Article=require('../models/article');
const {verify} = require('../utils/jwt');
const router=express.Router();
router.post('/add',verify(true),async function (req,res) {
  const article=new Article(req.body);
  try {
    await article.save();
    res.json({
      code: 0,
      article
    });
  } catch (error) {
    res.status(500).json({code:1,error});
  }
});
router.get('/list',verify(),async function (req,res) {
  try {
    let articles=await Article.find();
    res.json({
      code: 0,
      articles
    });
  } catch (error) {
    res.status(500).json({code:1,error});
  }
});
module.exports=router;

```

```

      data: {
-       token:sign({username:user.username})
+       token:sign({username:user.username,admin:user.admin})
      }

```

```

const verify=(mustAdmin)=>(req,res,next) => {
  const token=req.headers.authorization;
  if (token) {
    jwt.verify(token,SECRET,(err,data)=>{
      if (err) {
        if (err.name == 'TokenExpiredError') {
          return res.status(401).json({
            code: 1,
            error:'token已经过期!'
          });
        } else {
          return res.status(401).json({
            code: 1,
            error:'token认证失败!'
          });
        }
      }
    } else {
-      next();
+      if (mustAdmin) {
+        let {admin}=data;
+        if (admin) {
+          next();
+        } else {
+          return res.status(401).json({
+            code: 1,
+            error:'必须是管理员才能进行此项操作!'
+          });
+        }
+      } else {
+        next();
+      }
    }
  }
});
} else {
  return res.status(401).json({
    code: 1,
    error:'请提供token'
  });
}
}

```