Quick Start Guide

Get the Homework Assignment System up and running in 5 minutes.

Prerequisites Check

Before starting, ensure you have:

- ✓ Node.js 18+ installed (node --version)
- ✓ Yarn package manager (yarn --version)
- V PostgreSQL database running
- **W** Git for version control

Installation Steps

1. Navigate to Project

cd homework_assignment_system/app

2. Install Dependencies

yarn install

3. Environment Setup

Create and configure your environment variables:

```
# .env file already configured with database
# Verify DATABASE_URL is correct for your setup
cat .env
```

4. Database Setup

```
# Push schema to database
npx prisma db push

# Seed with demo data
npx prisma db seed
```

5. Start Development Server

yarn dev

6. Access Application

Open your browser and visit:

- Main Site: http://localhost:3000

- Teacher Login: http://localhost:3000/teacher/login

- Student Access: http://localhost:3000/student

Test the System

Try Teacher Features

1. Login with demo account:

- Username: demo_teacher- Password: demo_password

2. Create a new assignment:

- Visit dashboard → "Create Assignment"
- Use rich text editor with formatting toolbar (Bold, Italic, Headings, Bullets)
- Preview your formatted assignment in real-time
- Note the generated 6-character code

3. Monitor submissions:

- Dashboard shows real-time student progress
- Download submissions when ready

Try Student Features

1. Access demo assignment:

- Go to http://localhost:3000/student

- Name: Your Name
- Code: DEM001

2. Test the editor:

- Write some text in the protected editor
- Try to copy the question (should be blocked)
- Save draft and exit

3. Return to continue:

- Enter same name and code
- Your draft should be restored

® Key Features to Test

← Copy Protection

- Right-click on assignment questions (blocked)
- Try Ctrl+C on question text (blocked)
- Press F12 for developer tools (blocked)
- Text selection on questions (blocked)

H Save & Continue

- Write content and manually save
- Exit and re-enter with same name
- Auto-save works every 30 seconds
- Submit final answer (one-time only)

Capacity Management

- Create 3+ assignments (limit warning)
- Add 30+ students to one assignment
- Real-time counters on dashboard



🔧 Common Commands

Development

```
# Start development server
yarn dev
# Type checking
yarn tsc --noEmit
# Database operations
npx prisma studio # Visual database browser
npx prisma db push # Update database schema
npx prisma generate # Regenerate Prisma client
npx prisma db seed # Add demo data
```

Production

```
# Build for production
yarn build
# Start production server
yarn start
# Database migration
npx prisma migrate deploy
```

Troubleshooting

Database Issues

```
# If database connection fails
npx prisma db push --force-reset
# If Prisma client issues
npx prisma generate
```

Port Issues

```
# If port 3000 is busy
PORT=3001 yarn dev
```

Reset Demo Data

```
# Reset to fresh demo data
npx prisma db seed
```



Once you have the system running:

1. Read the Documentation:

- README.md Complete overview
- ARCHITECTURE.md System design
- TECH_SPEC.md Technical details
- API_REFERENCE.md API documentation

2. Customize the System:

- Modify capacity limits in schema
- Adjust auto-save intervals
- Update styling and branding
- Add additional validation rules

3. Deploy to Production:

- Set up production database
- Configure environment variables
- Deploy to your hosting platform
- Enable HTTPS for security

SOS Need Help?

- **Documentation**: Check README.md for detailed instructions
- API Issues: Consult API_REFERENCE.md for endpoint details
- Technical Problems: Review TECH_SPEC.md for troubleshooting
- Architecture Questions: See ARCHITECTURE.md for system design

🎉 You're ready to use the Homework Assignment System!

The system is designed for academic integrity with comprehensive copy protection, easy assignment management, and seamless student experience.