Commands Used in Tasks

1. **Next.js Setup and Deployment**

```
mkdir my-nextjs-app
cd my-nextjs-app
npx create-next-app@latest .
```

Configure Environment Variables:

```
NEXT_PUBLIC_API_URL=http://example.com/api
```

Build and Start the Next.js Application:

```
npm run build
npm start
```

Django Setup and Deployment

Create a New Django Project:

```
mkdir my-django-app
cd my-django-app
python3 -m venv venv
source venv/bin/activate
```

```
pip install django
django-admin startproject myproject .
```

Install Additional Dependencies:

```
pip install djangorestframework
```

Configure Environment Variables and Database Settings:

```
SECRET_KEY=your_secret_key
DATABASE_URL=postgres://user:password@localhost:5432/mydatabase
```

Apply Migrations and Create Superuser:

```
python manage.py migrate
python manage.py createsuperuser
```

Run the Django Application:

```
python manage.py runserver 0.0.0.0:8000
```

Deploy with Gunicorn and Nginx (Optional for Production):
- Install Gunicorn

```
pip install gunicorn
```

Run Gunicorn

```
gunicorn --workers 3 myproject.wsgi:application --bind 0.0.0.0:8000
```