

# Git Setup Instructions

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## Quick Setup for GitHub Repository

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### 1. Initialize Git Repository (if not already done)

```
cd /home/ubuntu/ai_rfp_risk_scanner
git init
git branch -M main
```

### 2. Add All Files to Git

```
# Add all files (respecting .gitignore)
git add .

# Create initial commit
git commit -m "Initial commit: AI RFP Risk Scanner v2.0.0"

- Comprehensive risk analysis with 40+ categories
- Regulatory compliance mapping (GDPR, NIS2, DORA, EU AI Act, AI RMF, OWASP)
- Industry best practices integration
- Enhanced LLM analysis engine
- Modern Next.js 14 application with TypeScript
- PostgreSQL database with Prisma ORM
- User authentication with NextAuth.js
- Production-ready deployment configuration"
```

### 3. Connect to GitHub Repository

#### Option A: Create New Repository on GitHub

1. Go to <https://github.com/new>
2. Create repository named `ai-rfp-risk-scanner`
3. Don't initialize with README (we already have one)

#### Option B: Use Existing Repository

Replace `YOUR_USERNAME` and `YOUR_REPO_NAME` with your actual values:

```
# Add remote origin
git remote add origin https://github.com/YOUR_USERNAME/YOUR_REPO_NAME.git

# Push to GitHub
git push -u origin main
```

## 4. Verify Upload
















```
# Check remote status
git remote -v

# Check branch status
git branch -a

# View commit log
git log --oneline
```

## Repository Structure

Your GitHub repository will contain:

|  |  |                                     |
|--|--|-------------------------------------|
| ai-rfp-risk-scanner/   |  |                                     |
|  app/                       |   | # Next.js application               |
|  README.md                  |   | # Comprehensive documentation       |
|  DEPLOYMENT_GUIDE.md        |   | # Deployment instructions           |
|  CHANGELOG.md               |   | # Version history                   |
|  LICENSE                    |   | # MIT License                       |
|  .gitignore                 |   | # Git ignore rules                  |
|  .env.example               |   | # Environment template              |
|  package.json               |   | # Root <b>package</b> configuration |
|  GIT_SETUP_INSTRUCTIONS.md |  | # This file                         |

## Environment Setup for New Team Members

### Clone and Setup

```
# Clone repository
git clone https://github.com/YOUR_USERNAME/ai-rfp-risk-scanner.git
cd ai-rfp-risk-scanner

# Setup development environment
yarn setup

# Copy environment template
cp .env.example app/.env.local

# Edit environment variables (see README.md for details)
nano app/.env.local
```

### Required Environment Variables

```
DATABASE_URL="postgresql://username:password@localhost:5432/ai_rfp_scanner"
NEXTAUTH_URL="http://localhost:3000"
NEXTAUTH_SECRET="generate-with-openssl-rand-base64-32"
ABACUSAI_API_KEY="your-abacus-ai-api-key"
```

## Start Development

```
# Start development server
yarn dev

# Visit http://localhost:3000
```

## Branch Strategy

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### Recommended Git Flow

```
# Create feature branch
git checkout -b feature/your-feature-name

# Make changes and commit
git add .
git commit -m "Add: your feature description"

# Push feature branch
git push origin feature/your-feature-name

# Create Pull Request on GitHub
# After review and merge, delete feature branch
git checkout main
git pull origin main
git branch -d feature/your-feature-name
```

### Branch Naming Convention

- `feature/` - New features
- `bugfix/` - Bug fixes
- `hotfix/` - Critical production fixes
- `docs/` - Documentation updates
- `refactor/` - Code refactoring

## Deployment Integration

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### Vercel (Recommended)

1. Connect GitHub repository to Vercel
2. Set environment variables in Vercel dashboard
3. Deploy automatically on push to main

### Other Platforms

- **Netlify:** Connect repository and configure build settings
- **Railway:** Connect GitHub for automatic deployments
- **DigitalOcean App Platform:** Connect repository with build configuration

## Security Notes

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### Never Commit

-  `.env` files with real secrets

- ❌ `node_modules/` directories
- ❌ Build artifacts
- ❌ Database files
- ❌ API keys in code
- ❌ Personal uploads

## Always Use

- ✅ Environment variables for secrets
- ✅ `.env.example` for templates
- ✅ `.gitignore` for sensitive files
- ✅ Secure database connections
- ✅ HTTPS in production

## Collaboration Workflow

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### Code Review Process

1. Create feature branch
2. Implement changes with tests
3. Create Pull Request
4. Request review from team members
5. Address feedback
6. Merge after approval

### Issue Tracking

- Use GitHub Issues for bug reports
- Create issue templates for consistency
- Label issues by priority and type
- Link PRs to related issues

### Documentation Updates

- Update README.md for major changes
- Update CHANGELOG.md for all releases
- Update API documentation as needed
- Keep deployment guides current

## Maintenance Commands

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### Update Dependencies

```
cd app
yarn upgrade-interactive
```

## Database Maintenance

```
# Create migration
npx prisma migrate dev --name your_migration_name

# Reset database (development only)
npx prisma migrate reset

# Generate Prisma client
npx prisma generate
```

## Code Quality

```
# Lint code
yarn lint

# Type check
yarn tsc --noEmit

# Format code
yarn prettier --write .
```

## Troubleshooting

### Common Git Issues

#### Large File Upload

If you encounter large file errors:

```
# Remove large files from history
git filter-branch --force --index-filter 'git rm --cached --ignore-unmatch
PATH_TO_LARGE_FILE' --prune-empty --tag-name-filter cat -- --all

# Push force (dangerous - use carefully)
git push origin --force --all
```

### Authentication Issues

```
# Use personal access token instead of password
git config --global credential.helper store

# Or use SSH keys (recommended)
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
# Add public key to GitHub settings
```

### Merge Conflicts

```
# Pull latest changes
git pull origin main

# Resolve conflicts in editor
# Then commit resolution
git add .
git commit -m "Resolve merge conflicts"
```

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## Support

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For issues with Git setup or repository management:

1. Check GitHub documentation
2. Review this guide
3. Create issue in repository
4. Contact team lead

**Happy coding!** 🚀