## 📋 \*\*Detailed Step-by-Step Guide: GitHub Upload + Deployment\*\*

Let me walk you through this \*\*exactly\*\* step by step:

### \*\*PART 1: Upload to GitHub (15 minutes)\*\*

#### \*\*Step 1: Create GitHub Account & Repository\*\*

1. \*\*Open your web browser\*\* → Go to [github.com](https://github.com)

2. \*\*Sign up/Sign in:\*\*

- If new: Click \*\*"Sign up"\*\* → Enter email, password, username

- If existing: Click \*\*"Sign in"\*\* → Enter credentials

3. \*\*Create New Repository:\*\*

- Click the \*\*green "New"\*\* button (top left)

- OR click the \*\*"+"\*\* icon (top right) → \*\*"New repository"\*\*

4. \*\*Fill Repository Details:\*\*

```

Repository name: tpp-system

Description: Talent Pipeline Programme - Student Performance System

✅ Public (recommended for free deployment)

❌ DON'T check "Add a README file"

❌ DON'T check "Add .gitignore"

❌ DON'T check "Choose a license"

```

5. \*\*Click "Create repository"\*\* (green button at bottom)

6. \*\*IMPORTANT:\*\* Keep this page open - you'll need the commands shown

#### \*\*Step 2: Prepare Your Project Files\*\*

1. \*\*Open your project folder\*\* (where your TPP app is located)

2. \*\*Check you have these files:\*\*

- ✅ `package.json`

- ✅ `app/` folder

- ✅ `components/` folder

- ✅ `next.config.js`

- ✅ All your code files

3. \*\*Create `.gitignore` file\*\* (if not exists):

- Right-click in project folder → \*\*"New File"\*\*

- Name it: `.gitignore` (with the dot)

- Add this content:

```

node\_modules/

.next/

.env.local

.env

.vercel

```

#### \*\*Step 3: Upload Using Command Line\*\*

1. \*\*Open Terminal/Command Prompt:\*\*

- \*\*Windows:\*\* Press `Win + R` → type `cmd` → press Enter

- \*\*Mac:\*\* Press `Cmd + Space` → type `terminal` → press Enter

2. \*\*Navigate to your project folder:\*\*

```bash

cd "C:\path\to\your\tpp-project"

```

\*(Replace with your actual folder path)\*

3. \*\*Run these commands ONE BY ONE:\*\*

```bash

# Step 1: Initialize git

git init

```

\*Expected output: "Initialized empty Git repository..."\*

```bash

# Step 2: Add all files

git add .

```

\*Expected output: (no output is normal)\*

```bash

# Step 3: Make first commit

git commit -m "Initial commit - TPP System"

```

\*Expected output: Shows files added\*

```bash

# Step 4: Connect to GitHub (REPLACE with YOUR details)

git remote add origin https://github.com/YOUR\_USERNAME/tpp-system.git

```

\*Replace `YOUR\_USERNAME` with your GitHub username\*

```bash

# Step 5: Push to GitHub

git push -u origin main

```

\*You'll be asked for GitHub username and password\*

4. \*\*GitHub Authentication:\*\*

- \*\*Username:\*\* Your GitHub username

- \*\*Password:\*\* Your GitHub password (or Personal Access Token)

#### \*\*Step 4: Verify Upload\*\*

1. \*\*Go back to your GitHub repository page\*\*

2. \*\*Refresh the page\*\* (F5)

3. \*\*You should see:\*\*

- 📁 All your project folders

- 📄 Your code files

- ✅ Green checkmark showing files uploaded

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### \*\*PART 2: Deploy to Vercel (10 minutes)\*\*

#### \*\*Step 1: Create Vercel Account\*\*

1. \*\*Go to [vercel.com](https://vercel.com)\*\*

2. \*\*Click "Sign Up"\*\*

3. \*\*Choose "Continue with GitHub"\*\* (recommended)

4. \*\*Authorize Vercel\*\* to access your GitHub

#### \*\*Step 2: Import Your Project\*\*

1. \*\*Click "New Project"\*\* (big button on dashboard)

2. \*\*Find your repository:\*\*

- Look for `tpp-system` in the list

- Click \*\*"Import"\*\* next to it

3. \*\*Configure Project:\*\*

```

Project Name: tpp-system (auto-filled)

Framework Preset: Next.js (auto-detected)

Root Directory: ./ (default)

```

4. \*\*Add Environment Variables:\*\*

- Click \*\*"Environment Variables"\*\* section

- Add these \*\*EXACTLY:\*\*

```

Name: NEXT\_PUBLIC\_SUPABASE\_URL

Value: [Your Supabase URL - get from your Supabase dashboard]

Name: NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY

Value: [Your Supabase Anon Key - get from your Supabase dashboard]

```

5. \*\*Click "Deploy"\*\* (blue button)

#### \*\*Step 3: Get Your Supabase Details\*\*

1. \*\*Open [supabase.com](https://supabase.com)\*\*

2. \*\*Sign in\*\* → Go to your project

3. \*\*Click "Settings"\*\* (gear icon on left)

4. \*\*Click "API"\*\*

5. \*\*Copy these values:\*\*

- \*\*Project URL\*\* → Use for `NEXT\_PUBLIC\_SUPABASE\_URL`

- \*\*Project API Key (anon public)\*\* → Use for `NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY`

#### \*\*Step 4: Wait for Deployment\*\*

1. \*\*Vercel will show building progress\*\*

2. \*\*Wait 2-5 minutes\*\* for build to complete

3. \*\*You'll see "Congratulations!"\*\* when done

4. \*\*Click "Visit"\*\* to see your live site

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### \*\*PART 3: Configure Supabase for Production\*\*

#### \*\*Step 1: Update Supabase Settings\*\*

1. \*\*In Supabase Dashboard:\*\*

- Go to \*\*Authentication\*\* → \*\*URL Configuration\*\*

2. \*\*Add Your Vercel URL:\*\*

```

Site URL: https://your-project-name.vercel.app

Redirect URLs: https://your-project-name.vercel.app/auth/callback

```

\*(Replace with your actual Vercel URL)\*

3. \*\*Click "Save"\*\*

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### \*\*🎯 TESTING YOUR LIVE SITE\*\*

\*\*Test these features on your live site:\*\*

1. ✅ \*\*Registration:\*\* Create new student account

2. ✅ \*\*Login:\*\* Sign in with credentials

3. ✅ \*\*Profile:\*\* Fill out student profile

4. ✅ \*\*Grades:\*\* Add subjects and grades

5. ✅ \*\*Coordinator:\*\* Test coordinator login

6. ✅ \*\*Mobile:\*\* Test on your phone

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### \*\*📱 What You'll Get\*\*

\*\*Your live URLs will be:\*\*

- \*\*Main site:\*\* `https://tpp-system.vercel.app`

- \*\*Student portal:\*\* `https://tpp-system.vercel.app/student`

- \*\*Coordinator portal:\*\* `https://tpp-system.vercel.app/coordinator`

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### \*\*🚨 Common Issues & Solutions\*\*

#### \*\*"Git is not recognized"\*\*

```bash

# Download and install Git first:

# https://git-scm.com/downloads

# Then restart command prompt and try again

```

#### \*\*"Authentication failed"\*\*

```bash

# Use GitHub Personal Access Token instead of password:

# GitHub → Settings → Developer settings → Personal access tokens

```

#### \*\*"Build failed on Vercel"\*\*

- Check environment variables are correct

- Verify Supabase URLs are working

- Check build logs for specific errors

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### \*\*🔄 Future Updates\*\*

\*\*When you make changes to your code:\*\*

1. \*\*Save your changes\*\*

2. \*\*Run these commands:\*\*

```bash

git add .

git commit -m "Updated features"

git push

```

3. \*\*Vercel auto-deploys\*\* your changes!

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\*\*Ready to start? Which step would you like me to help you with first?\*\* 🚀

I can walk you through each part in detail as you do it!

## 📂 \*\*Yes! You need to upload your entire application to GitHub first\*\*

Here's how to get your TPP application on GitHub for deployment:

### \*\*Step 1: Create a GitHub Repository\*\*

1. Go to [github.com](https://github.com)

2. Sign in or create an account

3. Click the \*\*"+"\*\* button → \*\*"New repository"\*\*

4. Name it: `tpp-system` (or any name you prefer)

5. Make it \*\*Public\*\* or \*\*Private\*\* (your choice)

6. \*\*Don't\*\* initialize with README (since you already have code)

7. Click \*\*"Create repository"\*\*

### \*\*Step 2: Prepare Your Local Project\*\*

Open terminal/command prompt in your project folder and run:

```bash

# Initialize git (if not already done)

git init

# Add all files to git

git add .

# Make your first commit

git commit -m "Initial commit - TPP System ready for deployment"

# Connect to your GitHub repository (replace with your username and repo name)

git remote add origin https://github.com/YOUR\_USERNAME/tpp-system.git

# Push everything to GitHub

git push -u origin main

```

### \*\*Step 3: What Gets Uploaded\*\*

\*\*Everything goes to GitHub:\*\*

- ✅ All your code files (`app/`, `components/`, etc.)

- ✅ Configuration files (`package.json`, `next.config.js`, etc.)

- ✅ Dependencies list (so platforms can install them)

- ✅ Public assets (images, logos, etc.)

\*\*What DON'T upload:\*\*

- ❌ `node\_modules/` folder (too large, auto-generated)

- ❌ `.env.local` file (contains secrets)

- ❌ `.next/` build folder (auto-generated)

\*(These are already in your `.gitignore` file)\*

### \*\*Step 4: Verify Upload\*\*

After pushing, check your GitHub repository page - you should see:

- 📁 All your project folders

- 📄 Your code files

- 📝 Package.json and other config files

### \*\*🔧 If You Get Errors\*\*

\*\*Common Issues & Solutions:\*\*

#### \*\*"Git not recognized"\*\*

```bash

# Install Git first: https://git-scm.com/downloads

# Then try the commands again

```

#### \*\*"Repository already exists"\*\*

```bash

# Use a different repository name, or

# Delete the existing one on GitHub and recreate it

```

#### \*\*"Permission denied"\*\*

```bash

# Use personal access token instead of password

# Or set up SSH keys in GitHub settings

```

### \*\*Step 5: Ready for Deployment!\*\*

Once your code is on GitHub:

1. ✅ \*\*Vercel\*\* can access it for deployment

2. ✅ \*\*Netlify\*\* can access it for deployment

3. ✅ You have version control and backup

4. ✅ You can make updates and redeploy easily

### \*\*Quick Commands Summary:\*\*

```bash

# One-time setup

git init

git add .

git commit -m "Initial commit - TPP System"

git remote add origin https://github.com/YOUR\_USERNAME/tpp-system.git

git push -u origin main

# Future updates

git add .

git commit -m "Updated features"

git push

```

### \*\*🎯 After GitHub Upload\*\*

Then you can:

1. Go to \*\*Vercel.com\*\*

2. Click \*\*"Import Git Repository"\*\*

3. Select your `tpp-system` repository

4. Deploy with one click!

\*\*Need help with any of these steps?\*\* Let me know which part you'd like me to explain in more detail! 🚀

## 🚀 \*\*Deployment Guide for Your TPP System\*\*

Here's a step-by-step guide to deploy your application to production:

### \*\*Option 1: Vercel (Recommended) - Free & Easy\*\*

\*\*Why Vercel?\*\*

- ✅ Built specifically for Next.js applications

- ✅ Free tier with generous limits

- ✅ Automatic deployments from GitHub

- ✅ Built-in SSL certificates

- ✅ Global CDN for fast loading

\*\*Step-by-Step Deployment:\*\*

#### \*\*1. Prepare Your Code\*\*

```bash

# Make sure everything is committed

git add .

git commit -m "Ready for deployment"

git push origin main

```

#### \*\*2. Deploy to Vercel\*\*

1. Go to [vercel.com](https://vercel.com)

2. Sign up with your GitHub account

3. Click \*\*"New Project"\*\*

4. \*\*Import your GitHub repository\*\*

5. Vercel will auto-detect it's a Next.js app

6. Click \*\*"Deploy"\*\*

#### \*\*3. Configure Environment Variables\*\*

In your Vercel dashboard:

1. Go to \*\*Project Settings → Environment Variables\*\*

2. Add these variables:

```

NEXT\_PUBLIC\_SUPABASE\_URL=your\_supabase\_url

NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY=your\_supabase\_anon\_key

```

#### \*\*4. Update Supabase Settings\*\*

In your Supabase dashboard:

1. Go to \*\*Authentication → URL Configuration\*\*

2. Add your Vercel domain to \*\*Site URL\*\*: `https://your-app.vercel.app`

3. Add to \*\*Redirect URLs\*\*: `https://your-app.vercel.app/auth/callback`

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### \*\*Option 2: Netlify (Alternative)\*\*

#### \*\*Steps:\*\*

1. Go to [netlify.com](https://netlify.com)

2. Connect your GitHub repository

3. Build settings:

- \*\*Build command\*\*: `npm run build`

- \*\*Publish directory\*\*: `.next`

4. Add environment variables in Netlify dashboard

5. Deploy!

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### \*\*Option 3: Railway (Database + App Hosting)\*\*

#### \*\*Steps:\*\*

1. Go to [railway.app](https://railway.app)

2. Connect GitHub repository

3. Railway auto-detects Next.js

4. Add environment variables

5. Deploy!

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### \*\*🔧 Pre-Deployment Checklist\*\*

#### \*\*1. Environment Variables Ready\*\*

Make sure you have:

```env

NEXT\_PUBLIC\_SUPABASE\_URL=https://your-project.supabase.co

NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY=your-anon-key

```

#### \*\*2. Supabase Production Setup\*\*

- ✅ Database tables created

- ✅ Row Level Security (RLS) policies set

- ✅ Authentication providers configured

- ✅ Storage buckets for file uploads

#### \*\*3. Test Your Build Locally\*\*

```bash

npm run build

npm start

```

#### \*\*4. Update Any Hardcoded URLs\*\*

Make sure no localhost URLs remain in your code.

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### \*\*🎯 Recommended Deployment Flow\*\*

\*\*For Your TPP System, I recommend this order:\*\*

1. \*\*Vercel\*\* for the frontend application (free, fast, reliable)

2. \*\*Supabase\*\* for database and authentication (already set up)

3. \*\*Custom domain\*\* (optional, can add later)

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### \*\*📋 Quick Deployment Commands\*\*

If you want to use Vercel CLI:

```bash

# Install Vercel CLI

npm i -g vercel

# Deploy from your project directory

vercel

# Follow the prompts

# Set environment variables when prompted

```

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### \*\*🔒 Security for Production\*\*

#### \*\*Environment Variables to Set:\*\*

```env

NEXT\_PUBLIC\_SUPABASE\_URL=your\_production\_supabase\_url

NEXT\_PUBLIC\_SUPABASE\_ANON\_KEY=your\_production\_anon\_key

```

#### \*\*Supabase Security Checklist:\*\*

- ✅ Enable Row Level Security on all tables

- ✅ Set up proper authentication policies

- ✅ Configure CORS for your domain

- ✅ Set up backup policies

---

### \*\*🎉 After Deployment\*\*

#### \*\*Test These Features:\*\*

1. ✅ User registration and login

2. ✅ Student profile creation

3. ✅ Grade input and saving

4. ✅ Coordinator dashboard access

5. ✅ PDF report generation

6. ✅ Mobile responsiveness

#### \*\*Share Your App:\*\*

Once deployed, you'll get a URL like:

`https://tpp-system.vercel.app`

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### \*\*💡 Next Steps After Going Live\*\*

1. \*\*Custom Domain\*\* (optional): `yourdomain.com`

2. \*\*Analytics\*\*: Add Google Analytics or Vercel Analytics

3. \*\*Monitoring\*\*: Set up error tracking (Sentry)

4. \*\*Backups\*\*: Schedule database backups in Supabase

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\*\*Want me to walk you through any specific deployment option?\*\* Vercel is the easiest for Next.js apps - would you like me to guide you through that process step by step? 🚀