

ULTRAA EVENTS - COMPLETE SETUP GUIDE

Step-by-Step Implementation for Beginners

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PHASE 1: PREREQUISITES (Day 1-2)

What You Need:

- Computer with internet
- Gmail account
- Business documents (for WhatsApp verification)
- Bank account (for Razorpay)
- Phone number (for WhatsApp Business)

Required Accounts (ALL FREE to create):

1. GitHub Account (Code Storage)

- Go to: <https://github.com>
- Click "Sign Up"
- Choose FREE plan
- **Why?** Store your code safely

2. MongoDB Atlas (Database)

- Go to: <https://www.mongodb.com/cloud/atlas>

- Sign up → Choose FREE tier (M0)
- Create a cluster (takes 5 mins)
- Click "Connect" → Get connection string
- **Save this string** - looks like: `mongodb+srv://username:password@cluster.mongodb.net`

3. Railway.app or Render.com (Backend Hosting)

- **Option A - Railway** (Recommended): <https://railway.app>
 - Sign up with GitHub
 - FREE: \$5 credit monthly (enough for testing)
- **Option B - Render**: <https://render.com>
 - Sign up
 - FREE tier available
- **Why?** Your backend code runs here 24/7

4. Gupshup (WhatsApp API)

- Go to: <https://www.gupshup.io>
- Sign up → Choose "WhatsApp Business API"
- Fill business details
- Submit documents (GST/Business registration)
- **Approval time:** 2-3 days
- **Cost:** Starting ₹1,500/month

5. Razorpay (Payments)

- Go to: <https://razorpay.com>
 - Sign up → Complete KYC
 - Get Test API Keys (start testing for FREE)
 - Get Live API Keys (after KYC approval)
 - **Cost:** 2% per transaction
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PHASE 2: BACKEND SETUP (Day 3-5)

Step 1: Install Development Tools

A. Install Node.js

1. Go to: <https://nodejs.org>
2. Download "LTS" version (Latest Stable)
3. Install (click Next, Next, Finish)
4. Verify: Open Terminal/Command Prompt

```
bash
```

```
node --version  
# Should show: v20.x.x or similar
```

B. Install VS Code (Code Editor)

1. Go to: <https://code.visualstudio.com>
2. Download & Install
3. Open VS Code

Step 2: Create Project

1. Create folder on Desktop:

- Name it: `ultraa-events-backend`

2. Open in VS Code:

- File → Open Folder → Select `ultraa-events-backend`

3. Open Terminal in VS Code:

- View → Terminal (or press Ctrl + `)

4. Initialize Project:

```
bash
```

```
npm init -y
```

5. Install Required Packages:

```
bash
```

```
npm install express mongoose dotenv razorpay axios cors
```

(This takes 2-3 minutes)

Step 3: Create Files

Create these files in your project folder:

File 1: `.env` (Environment Variables)

```
MONGODB_URI=mongodb+srv://YOUR_USERNAME:YOUR_PASSWORD@cluster.mongodb.net/ultraa-events  
RAZORPAY_KEY_ID=your_test_key_id  
RAZORPAY_KEY_SECRET=your_test_secret  
GUPSHUP_API_KEY=your_gupshup_key  
GUPSHUP_APP_NAME=your_app_name  
PORT=3000
```

Replace with your actual credentials!

File 2: `server.js`

Copy the complete backend code I provided in the artifact above.

File 3: `.gitignore`

```
node_modules/  
.env
```

Step 4: Test Locally

1. Run the server:

```
bash  
node server.js
```

2. You should see:

 MongoDB Connected
 Server running on port 3000

3. Test API:

- Open browser
- Go to: <http://localhost:3000/api/events>
- Should see: `{"success": true, "events": []}`

 Backend is working!

PHASE 3: DEPLOY BACKEND (Day 6)

Option A: Deploy to Railway.app

1. Push Code to GitHub:

```
bash  
  
git init  
git add .  
git commit -m "Initial commit"  
git branch -M main
```

- Create new repo on GitHub
- Follow GitHub's push instructions

2. Deploy on Railway:

- Go to Railway.app dashboard
- Click "New Project"
- Select "Deploy from GitHub"
- Choose your repository
- Railway auto-detects Node.js
- Click "Deploy"

3. Add Environment Variables:

- Go to project → Variables
- Add all variables from `.env` file
- Click "Deploy"

4. Get Your URL:

- Railway gives you a URL like: `https://your-app.railway.app`
- **Save this URL!**

Option B: Deploy to Render.com

1. Push code to GitHub (same as above)
2. Go to Render.com → New → Web Service
3. Connect GitHub → Select repo
4. Build Command: `npm install`

5. Start Command: `node server.js`

6. Add environment variables

7. Click "Create Web Service"

 **Backend is now live 24/7!**

PHASE 4: WHATSAPP INTEGRATION (Day 7-10)

Step 1: Gupshup Setup

1. Login to Gupshup dashboard

2. Go to App Settings:

- Note your API Key
- Note your App Name

3. Configure Webhook:

- Go to "Webhooks" section
- Add webhook URL: `https://your-app.railway.app/webhook/whatsapp`
- Save

4. Test WhatsApp:

- Use Gupshup's test environment
- Send a message to your number
- Check Railway logs to see if webhook received

Step 2: Create Message Templates

WhatsApp requires pre-approved templates for automated messages.

Template 1: Welcome Message

Hello {{1}}! Welcome to Ultraa Events 🎉

We're excited to help you book tickets for amazing events!

Reply with "EVENTS" to see upcoming events.

Template 2: Payment Confirmation



Your ticket for {{1}} is confirmed!

Order ID: {{2}}

Amount: ₹{{3}}

Show this QR code at venue: {{4}}

See you at the event!

Submit these for approval (takes 24 hours).

PHASE 5: RAZORPAY INTEGRATION (Day 11-12)

Step 1: Setup Test Mode

1. Login to Razorpay Dashboard

2. Go to Settings → API Keys

3. Generate Test Keys:

- Test Key ID: `rzp_test_xxxxx`
- Test Secret: `xxxxxxxxxx`

4. Add to your .env file

Step 2: Test Payment Flow

1. Use Razorpay test cards:

Card: 4111 1111 1111 1111

CVV: Any 3 digits

Expiry: Any future date

2. Test the complete flow:

- Create order
- Make payment
- Verify webhook

Step 3: Go Live

1. Complete KYC (takes 2-3 days)

2. Generate Live Keys

3. Replace test keys with live keys

4. Test with real ₹1 transaction

PHASE 6: ADMIN PANEL (Day 13-15)

Deploy Admin Panel

Option 1: Use Vercel (Easiest - FREE)

1. Prepare React App:

- Create new folder: `ultraa-admin`
- Copy the admin panel code I provided
- Initialize: `npx create-react-app .`
- Replace `src/App.js` with admin panel code

2. Install Vercel CLI:

```
bash
```

```
npm install -g vercel
```

3. Deploy:

```
bash
```

```
cd ultraa-admin  
vercel
```

- Login with GitHub
- Follow prompts
- Get URL: `https://your-admin.vercel.app`

Option 2: Use Netlify (Also FREE)

- Similar process to Vercel
 - Drag & drop build folder
-

PHASE 7: MOBILE QR SCANNER (Optional)

For entry scanning at venue, you need a mobile app.

Two Options:

Option 1: Progressive Web App (PWA)

- Build a web app that works on mobile
- Use device camera for QR scanning
- Cheaper & faster to build

Option 2: Native App

- Build Android/iOS app
- Better camera performance
- More expensive

Libraries for QR Scanning:

- `react-qr-reader` (web)
 - React Native with `react-native-camera`
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COMPLETE COST BREAKDOWN

One-Time Costs:

- Domain (optional): ₹800/year
- **Total:** ₹800

Monthly Costs:

Testing Phase (First Month):

- Railway/Render: FREE (within limits)
- MongoDB: FREE (M0 tier)
- Razorpay: ₹0 (only transaction fee)
- Gupshup: ₹1,500/month
- **Total: ₹1,500/month**

Production (After Launch):

- Backend Hosting: ₹500/month
- Database: ₹0 (FREE tier sufficient for 100 events)
- WhatsApp API: ₹1,500-3,000/month (depends on messages)
- Razorpay: 2% per transaction

- **Total: ₹2,000-3,500/month**

Transaction Costs:

- Razorpay: 2% per ticket
 - Example: ₹2,000 ticket = ₹40 fee
 - You can add this to ticket price
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TESTING CHECKLIST

Before going live, test:

Backend:

- Can create user
- Can fetch events
- Can create order
- Payment verification works
- QR code generation works
- Webhook receives messages

WhatsApp:

- Welcome message sends
- User can see events
- Payment link received
- Confirmation message works

Payment:

- Test card payment works
- Order status updates
- Email/WhatsApp sent after payment

Admin Panel:

- Can create events
 - Can view orders
 - Dashboard shows correct stats
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COMMON ISSUES & FIXES

1. "Cannot connect to MongoDB"

Fix: Check connection string in .env file

- Ensure IP whitelist includes `0.0.0.0/0` in MongoDB Atlas

2. "WhatsApp webhook not receiving"

Fix:

- Check webhook URL is correct
- Ensure Railway app is running
- Check Railway logs for errors

3. "Payment not completing"

Fix:

- Verify Razorpay keys are correct
- Check webhook signature verification
- Test with Razorpay test cards first

4. "QR code not working"

Fix:

- Ensure QR code contains correct order ID
 - Check if order exists in database
 - Verify scanner is hitting correct API endpoint
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SUPPORT RESOURCES

- **Railway Docs:** <https://docs.railway.app>
 - **MongoDB Docs:** <https://docs.mongodb.com>
 - **Razorpay Docs:** <https://razorpay.com/docs>
 - **Gupshup Docs:** <https://docs.gupshup.io>
 - **Node.js Docs:** <https://nodejs.org/docs>
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TIMELINE SUMMARY

- **Week 1:** Account setup + Backend development
- **Week 2:** Deploy + WhatsApp integration
- **Week 3:** Payment integration + Testing
- **Week 4:** Admin panel + Final testing

Total Time: 3-4 weeks (working part-time)

READY TO LAUNCH?

Once everything is tested:

1. Switch Razorpay to Live mode
 2. Get WhatsApp templates approved
 3. Create your first event
 4. Share WhatsApp link on Instagram
 5. Start selling tickets!
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Need help? Save this guide and follow step-by-step!