Crowd Fund Project Deployment & Razorpay Live Setup Guide

1) Overview

- Project: Crowd Fund Project
- Frontend: React
- Backend: Spring Boot
- Database: PostgreSQL (production), MySQL (local development)
- Purpose: Step-by-step deployment guide for team

2) Server Assumption

- Company already provides server access
- Only credentials (IP, username, password/SSH key) needed
- Hosting Provider: [BigRock](#)
- Credentials:
    - ID: lisbon.ferrao@gmail.com
    - Password: Luna@1234
- No VPS purchase/setup required

3) Backend Environment Variables

Your backend environment variables for **production** should look like this:

```
# Spring Profiles & Server
SPRING_PROFILES_ACTIVE=production
SERVER_PORT=8080

# PostgreSQL Database
SPRING_DATASOURCE_URL=jdbc:postgresql://dpg-d20u18re5dus7388a0v0-a.oregon-
postgres.render.com/cloud_fund_db
SPRING_DATASOURCE_USERNAME=cloud_fund_user
SPRING_DATASOURCE_PASSWORD=mL6Xuc48KpPPubIEexv0FlIir2ORJ8M0
SPRING_DATASOURCE_DRIVER_CLASS_NAME=org.postgresql.Driver

# JWT Configuration
JWT_SECRET=kk3aFRZhghFRypZS4df7Wb5slZ1EOywq
JWT_EXPIRATION=86400

# Email Configuration
MAIL_HOST=mail.alphaseam.com
MAIL_PORT=587
MAIL_USERNAME=testing@alphaseam.com
MAIL_PASSWORD=Alphaseam@!#8520

# Razorpay Payment Gateway
RAZORPAY_KEY_ID=rzp_live_xxxxxxxx
RAZORPAY_KEY_SECRET=xxxxxxxxxxxxxxxxxxxxxxxx
```

```
# Application Configuration
ADMIN_EMAIL=testing@alphaseam.com
APP_BASE_URL=https://donorbox-backend.onrender.com

# File Upload Limits
IMAGE_MAX_SIZE=25MB
IMAGE_ALLOWED_TYPES=jpg,jpeg,png,gif,webp,bmp,tiff,svg
VIDEO_MAX_SIZE=100MB
VIDEO_ALLOWED_TYPES=mp4,avi,mov,wmv,flv,webm,mkv,m4v,3gp,ogv
DOCUMENT_MAX_SIZE=10MB
DOCUMENT_ALLOWED_TYPES=jpg,jpeg,png,gif,webp,pdf,doc,docx

# Logging Configuration
LOGGING_LEVEL_ROOT=WARN
LOGGING_LEVEL_COM_DONORBOX=INFO
LOGGING_LEVEL_ORG_SPRINGFRAMEWORK_SECURITY=WARN
LOGGING_LEVEL_ORG_SPRINGFRAMEWORK_WEB=WARN

# Development Tools
SPRINGDOC_SWAGGER_UI_ENABLED=false
SPRING_H2_CONSOLE_ENABLED=false
```

Changes / Notes:

- **Razorpay keys:** Replace test keys with **live keys** after deployment.
- **Database:** PostgreSQL used in production; MySQL for local development.
- **APP_BASE_URL:** Change to match deployed backend URL.

4) Database Deployment

Production (PostgreSQL)

Follow the steps in section 3 for PostgreSQL configuration.

Local Development (MySQL)

```
sudo apt install mysql-server -y
sudo mysql
CREATE DATABASE crowdfund_local;
CREATE USER 'localuser'@'localhost' IDENTIFIED BY 'LocalPass123';
GRANT ALL PRIVILEGES ON crowdfund_local.* TO 'localuser'@'localhost';
FLUSH PRIVILEGES;
EXIT;
```
- Backend `application-local.properties`:
```
spring.datasource.url=jdbc:mysql://localhost:3306/crowdfund_local
spring.datasource.username=localuser
spring.datasource.password=LocalPass123
spring.jpa.hibernate.ddl-auto=update
spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
```

5) Backend Deployment (Spring Boot)

1. Upload project to server
2. Build project: `mvn clean package`

3. Set environment variables (see section 3)
4. Run backend:

```
java -jar target/crowd_fund-0.0.1-SNAPSHOT.jar --
spring.profiles.active=prod
```

6) React Frontend Deployment

1. `.env.production` for React:

```
VITE_API_BASE_URL=https://yourdomain.com/api
VITE_RAZORPAY_KEY_ID=<your_live_key_id>
VITE_DONATION_API_USERNAME=admin
VITE_DONATION_API_PASSWORD=admin123
```

2. Build: `npm run build`
3. Copy `build/` to server
4. Configure Nginx + restart

7) Razorpay Live Mode Integration

- Deploy frontend and backend first
- Generate **Live Mode Key ID + Secret**
- Update backend env variables and redeploy backend once
- Optional: Setup webhook

8) SSL / HTTPS

- Install Let's Encrypt
- Auto-renewal included

9) Final Testing

- Frontend → backend → database flow
- Media upload/download
- Razorpay live payments
- Check backend logs

10) Code Links

- **Backend GitHub link**: https://github.com/vaibhavkadusAL/cloud_fund
- **Frontend GitHub link** - https://github.com/TejasMahakalAlpha/crowd_fund.git