🪙 RoseCoin - Complete Mining Platform

**Comprehensive Installation & Configuration Guide** 

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## **Overview**

RoseCoin is a comprehensive gamified cryptocurrency mining platform built with Flask/Python. It features:

- Tap-to-Mine System: Interactive mining with XP progression
- Social Media Tasks: Multi-platform task completion system
- Referral System: Multi-level referral earnings
- Social Media Promotion: Campaign management and promotion platform
- Airdrop System: Automated coin distribution campaigns
- Admin Panel: Complete administrative control
- PWA Support: Progressive Web App capabilities
- · Multi-language: Internationalization ready

#### **Key Technologies**

- Backend: Flask 3.1.1, SQLAlchemy, Python 3.9+
- Frontend: Bootstrap 5, JavaScript, PWA
- Database: SQLite (development), PostgreSQL (production)

· Security: CSRF protection, password hashing, session management

## **System Requirements**

# **Minimum Requirements**

· Python: 3.9 or higher

· RAM: 512MB minimum, 2GB recommended

Storage: 5GB minimum, 20GB recommended

· CPU: 1 vCPU minimum, 2 vCPU recommended

### **Recommended Hosting Specifications**

• RAM: 4GB or higher

Storage: SSD with 50GB+ space

· Bandwidth: Unlimited or 1TB+

SSL: SSL certificate support

Database: PostgreSQL 12+ support

#### **Installation Guide**

## Step 1: Download and Extract Files

- 1. Download the complete source code package
- 2. Extract all files to your desired directory
- 3. Ensure all file permissions are correctly set

#### **Step 2: Install Python Dependencies**

# Navigate to the project directory
cd rosecoin-platform
# Install required packages
pip install -r requirements.txt

#### **Step 3: Database Setup**

# Initialize the database
python app.py

The system will automatically: - Create all required database tables - Set up the admin user (demo/demo123) - Initialize default data

## **Step 4: Basic Configuration**

- 1. Edit environment variables in your hosting platform
- 2. Configure database settings
- 3. Set up email service (optional but recommended)
- 4. Configure security keys

# **Step 5: Launch Application**

# For development
python main.py
# For production (recommended)

gunicorn --bind 0.0.0.0:5000 --reuse-port --reload main:app

# **Platform-Specific Installation**

#### Replit (Recommended)

Why Replit? - Zero setup configuration - Built-in database support - Automatic dependency management - Free hosting tier available - Easy deployment options

## **Installation Steps:**

- 1. Fork the Template
  - Login to Replit
  - Import the project files
  - Replit will automatically detect Flask and install dependencies
- 2. Configure Environment
  - Set environment variables in Replit Secrets
  - Configure database URL if using external database
- 3. Run the Application
  - Click the "Run" button
  - Application will be available at your Replit URL
- 4. Deploy to Production
  - Use Replit's deployment feature
  - Configure custom domain if needed

#### **VPS/Dedicated Server**

#### **Ubuntu/Debian Installation:**

```
# Update system packages
sudo apt update && sudo apt upgrade -y
# Install Python and pip
sudo apt install python3 python3-pip python3-venv -y
# Install PostgreSOL (for production)
sudo apt install postgresql postgresql-contrib -y
# Create application directory
sudo mkdir /var/www/rosecoin
sudo chown $USER:$USER /var/www/rosecoin
# Extract application files
cd /var/www/rosecoin
# Upload and extract your files here
# Install dependencies
pip3 install -r requirements.txt
# Set up systemd service (optional)
sudo nano /etc/systemd/system/rosecoin.service
```

## **Systemd Service File:**

```
Description=rosecoin Flask App
After=network.target

[Service]
User=www-data
Group=www-data
WorkingDirectory=/var/www/rosecoin
Environment="PATH=/var/www/rosecoin/venv/bin"
ExecStart=/var/www/rosecoin/venv/bin/gunicorn --bind 0.0.0.0:5000 main:app
Restart=always

[Install]
WantedBy=multi-user.target
```

#### **Shared Hosting**

Requirements: - Python 3.9+ support - pip installation capability - Database access (SQLite or PostgreSQL) - SSL certificate support

Installation Steps: 1. Upload all files via FTP/cPanel File Manager 2. Install dependencies using hosting control panel 3. Configure database connection 4. Set up domain pointing to main.py 5. Configure SSL certificate

# **Hosting Platform Selection**

#### **Recommended Hosting Platforms**

## 1. Replit (Best for Beginners)

Pros: - Zero configuration - Built-in database - Free tier available - Easy deployment - Automatic backups

Cons: - Limited resources on free tier - Replit-specific URL structure

Best For: Development, testing, small-scale deployment

# 2. DigitalOcean Droplets

Pros: - Full control over server - Scalable resources - SSD storage - Good documentation

Cons: - Requires server management knowledge - No managed services

Best For: Medium to large-scale deployments

## 3. Heroku

Pros: - Easy deployment - Managed database options - Built-in SSL - Automatic scaling

**Cons: - More expensive - Less control** 

Best For: Quick deployment, managed hosting preference

## 4. AWS/Google Cloud

Pros: - Enterprise-grade infrastructure - Global CDN - Managed services - High availability

Cons: - Complex pricing - Requires cloud knowledge

Best For: Large-scale, enterprise deployments

## **Hosting Selection Criteria**

Traffic Volume: - Low (< 1,000 users): Replit, shared hosting - Medium (1,000-10,000 users): VPS, cloud instances - High (10,000+ users): Dedicated servers, cloud scaling

Budget Considerations: - \$0-10/month: Replit, shared hosting - \$10-50/month: VPS, small cloud instances - \$50+/month: Dedicated servers, managed cloud

Technical Expertise: - Beginner: Replit, managed hosting - Intermediate: VPS, cloud platforms - Advanced: Dedicated servers, custom setups

#### **Database Configuration & Migration**

**Development Database (SQLite)** 

## The application uses SQLite by default for development:

# Default configuration in app.py
database\_url = os.environ.get("DATABASE\_URL") or "sqlite:///rosecoin.db"

Location: instance/rosecoin.db

**Production Database (PostgreSQL)** 

**Setting up PostgreSQL** 

## On Ubuntu/Debian:

# Install PostgreSQL

sudo apt install postgresql postgresql-contrib

# Create database and user
sudo -u postgres psql
CREATE DATABASE rosecoin;
CREATE USER dscuser WITH PASSWORD 'your\_secure\_password';
GRANT ALL PRIVILEGES ON DATABASE rosecoin TO dscuser;

#### **Environment Configuration:**

# Set database URL
export DATABASE\_URL="postgresql://dscuser:your\_secure\_password@localhost/rosecoin"

#### **Database Migration**

## From SQLite to PostgreSQL

## 1. Export SQLite Data:

```
# Using the built-in backup system
python -c "
from app import app, db
from models.user import User
import json

with app.app_context():
    users = User.query.all()
    # Export your data to JSON
```

### 2. Import to PostgreSQL:

```
# Set PostgreSQL as database URL
export DATABASE_URL="postgresql://user:pass@localhost/dbname"
# Run the application to create tables
python app.py
# Import your data using admin panel or custom script
```

## **Automated Migration Script**

```
# migration_script.py
import os
import ison
from datetime import datetime
from app import app, db
from models.user import User
from models.task import Task
from models.mining import MiningSession
def export data():
     """Export data from current database"""
    with app.app_context():
        data = {
             'users': [user.to_dict() for user in User.query.all()],
             'tasks': [task.to_dict() for task in Task.query.all()]
             'mining_sessions': [session.to_dict() for session in MiningSession.query.all()],
             'exported at': datetime.utcnow().isoformat()
        with open('database_backup.json', 'w') as f:
    json.dump(data, f, indent=2)
        print("Data exported successfully!")
def import_data():
       "Import data to new database""
    with app.app_context():
        with open('database_backup.json', 'r') as f:
             data = json.load(f)
        # Import users
        for user_data in data['users']:
    user = User(**user data)
             db.session.add(user)
        # Import other data...
        db.session.commit()
        print("Data imported successfully!")
    _name_
            == "__main__":
    import sys
    if len(sys.argv) > 1 and sys.argv[1] == "export":
        export_data()
    elif len(sys.argv) > 1 and sys.argv[1] == "import":
        import_data()
        print("Usage: python migration_script.py [export|import]")
```

# **Database Backup Strategy**

#### **Automated Backups**

# The application includes built-in backup functionality in the admin panel:

```
# Admin panel backup feature
@admin_bp.route('/database/backup')
@login_required
@admin_required
def backup_database():
    # Creates JSON backup of all data
    # Downloadable via admin panel
```

# **Manual Backup Commands**

## **SQLite:**

```
# Create backup
cp instance/rosecoin.db backup_$(date +%Y%m%d_%H%M%S).db
# Restore backup
cp backup_20250719_120000.db instance/rosecoin.db
```

# PostgreSQL:

```
# Create backup
pg_dump rosecoin > backup_$(date +%Y%m%d_%H%M%S).sql
# Restore backup
psql rosecoin < backup_20250719_120000.sql
```

## **Website Configuration**

#### **Environment Variables**

# **Required Environment Variables**

```
SESSION_SECRET="your-super-secret-key-change-this-in-production"

# Database Configuration
DATABASE_URL="sqlite:///rosecoin.db" # or PostgreSQL URL

# Email Configuration (Optional)
SMTP_SERVER="smtp.gmail.com"
SMTP_PORT="587"
SMTP_USERNAME="your-email@gmail.com"
SMTP_PASSWORD="your-app-password"
SMTP_USE_TLS="true"

# File Upload Configuration
MAX_CONTENT_LENGTH="16777216" # 16MB in bytes
UPLOAD_FOLDER="uploads"
```

# **Setting Environment Variables**

# On Replit: 1. Go to your Repl 2. Click on "Secrets" tab in sidebar 3. Add each variable with its value

## On VPS/Linux:

```
# Add to ~/.bashrc or /etc/environment
export SESSION_SECRET="your-secret-key"
export DATABASE_URL="your-database-url"

# Or create .env file (not recommended for production)
echo "SESSION_SECRET=your-secret-key" > .env
```

#### On Windows:

# Set environment variables set SESSION\_SECRET=your-secret-key set DATABASE\_URL=your-database-url

#### **Application Settings**

#### **Admin Panel Settings**

## Access the admin panel at /admin and configure:

- 1. Platform Settings
  - App Name: "RoseCoin"
  - Welcome Message
  - **Maintenance Mode**
  - Registration Settings
- 2. Mining Configuration
  - Base mining rate
  - Level multipliers
  - Daily mission rewards
  - Event bonuses
- 3. Task Settings
  - Available platforms
  - Reward amounts
  - Verification settings

- Auto-approval thresholds
- 4. Referral System
  - Commission rates
  - Maximum referral levels
  - Bonus thresholds
- 5. Withdrawal Settings
  - Minimum withdrawal amounts
  - Processing fees
  - Supported payment methods

### **SSL Configuration**

## Let's Encrypt (Free SSL)

```
# Install Certbot
sudo apt install certbot python3-certbot-nginx
# Obtain certificate
sudo certbot --nginx -d yourdomain.com
# Auto-renewal
sudo crontab -e
# Add: 0 12 * * * /usr/bin/certbot renew --quiet
```

## **Cloudflare SSL (Recommended)**

- 1. Add your domain to Cloudflare
- 2. Update nameservers
- 3. Enable "Full (Strict)" SSL mode
- 4. Enable "Always Use HTTPS"

#### **Nginx Configuration**

# /etc/nginx/sites-available/rosecoin server { listen 80; server\_name yourdomain.com www.yourdomain.com;
return 301 https://\$server\_name\$request\_uri; } server { listen 443 ssl http2; server\_name yourdomain.com
www.yourdomain.com; ssl\_certificate /path/to/certificate.crt; ssl\_certificate\_key /path/to/private.key;
location / { proxy\_pass http://127.0.0.1:5000; proxy\_set\_header Host \$host; proxy\_set\_header X-Real-IP
\$remote\_addr; proxy\_set\_header X-Forwarded-For \$proxy\_add\_x\_forwarded\_for; proxy\_set\_header X-ForwardedProto \$scheme; } location /static/ { alias /var/www/rosecoin/static/; expires 1y; add\_header CacheControl "public, immutable"; } location /uploads/ { alias /var/www/rosecoin/uploads/; expires 1y;
add\_header Cache-Control "public"; } }

# **File Modification Guide**

#### **Project Structure**

rosecoin/ â"œâ"€â"€ app.py # Main application file â"œâ"€â"€ main.py # Entry point â"œâ"€â"€ requirements.txt # Python dependencies â"œâ"€â"€ forms.py # WTForms definitions â"œâ"€â"€ core/ # Core modules â", â"œâ"€â"€ auth.py # Authentication â", â"œâ"€â"€ mining.py # Mining system â", â"œâ"€â"€ tasks.py # Task system â", â"œâ"€â"€ admin.py # Admin panel â", â""â"€â"€ promotions.py # Promotion system â"œâ"€â"€ models/ # Database models â", â"œâ"€â"€ user.py # User model â", â"œâ"€â"€ task.py # Task model â", â"œâ"€â"€ mining.py # Mining models â", â""â"€â"€ ... â"œâ"€â"€ templates/ # HTML templates â", â"œâ"€â"€ base.html # Base template â", â"œâ"€â"€ dashboard.html # Main dashboard â", â""â"€â"€ ... â"œâ"€â"€ static/ # Static files â", â"œâ"€â"€ css/ # Stylesheets â", â"œâ"€â"€ js/ # JavaScript â", â""â"€â"€ images/ # Images â""â"€â"€ utils/ # Utility modules â"œâ"€â"€ helpers.py # Helper functions â""â"€â"€ ...

#### **Common Modifications**

#### 1. Changing Platform Name/Branding

## File: models/settings.py

```
# Change app name
class AppSettings(db.Model):
    app_name = db.Column(db.String(100), default="Your Platform Name")
```

## File: templates/base.html

```
<!-- Update title and branding --> <title>{% block title %}Your Platform Name{% endblock %}</title>
```

## File: static/manifest.json

```
{
   "name": "Your Platform Name",
   "short_name": "YPN"
}
```

## 2. Customizing Mining Rates

#### File: models/user.py

```
def calculate_mining_reward(self):
   base_reward = 10.0  # Change base mining reward
   level_multiplier = 1.0 + (self.level * 0.1)  # Adjust level bonus
   return base_reward * level_multiplier
```

## 3. Adding New Task Platforms

#### File: models/task.py

```
TASK_PLATFORMS = [
    ('twitter', 'Twitter/X'),
    ('telegram', 'Telegram'),
    ('youtube', 'YouTube'),
    ('your_platform', 'Your Platform'), # Add new platform
```

## 4. Modifying Referral Rates

## File: models/referral.py

```
def calculate_commission(self, amount):
    commission_rate = 0.15  # 15% commission (adjust as needed)
    return amount * commission_rate
```

### 5. Customizing Email Templates

## File: utils/smtp\_client.py

```
def send_welcome_email(user_email, username):
    subject = "Welcome to Your Platform!"
    body = f"""
    <h1>Welcome {username}!</h1>
    Thank you for joining our platform...
    """
    return send_email(user_email, subject, body)
```

## **CSS Customization**

#### **Color Scheme**

# File: static/css/style.css

```
root {
    --primary-color: #your-color;
    --secondary-color: #your-secondary;
    --accent-color: #your-accent;
    --text-color: #your-text;
    --background-color: #your-background;
```

# **Typography**

```
/* Custom fonts */
@import url('https://fonts.googleapis.com/css2?family=YourFont:wght@400;600;700&display=swap');
body {
     font-family: 'YourFont', sans-serif;
}
```

## **JavaScript Modifications**

# **Mining Animation**

#### File: static/js/mining.js

## **Custom Features**

```
// Add new feature to app.js
class CustomFeature {
    constructor() {
        this.initCustomFeature();
    }
    initCustomFeature() {
            // Your custom feature implementation
      }
}

// Initialize on page load
document.addEventListener('DOMContentLoaded', () => {
        new CustomFeature();
});
```

# **Security Configuration**

# **Essential Security Settings**

# 1. Session Security

```
# app.py - Update session configuration
app.config.update(
SESSION_COOKIE_SECURE=True,  # HTTPS only
SESSION_COOKIE_HTTPONLY=True,  # No JavaScript access
SESSION_COOKIE_SAMESITE='Lax',  # CSRF protection
PERMANENT_SESSION_LIFETIME=timedelta(hours=24)  # Session timeout
}
```

#### 2. CSRF Protection

```
# Already implemented via Flask-WTF
from flask_wtf.csrf import CSRFProtect
csrf = CSRFProtect()
csrf.init_app(app)
```

## 3. Password Security

```
# models/user.py - Password requirements
def set_password(self, password):
    # Add password strength validation
    if len(password) < 8:
        raise ValueError("Password must be at least 8 characters")
    if not re.search(r"[A-Z]", password):
        raise ValueError("Password must contain uppercase letter")
if not re.search(r"[a-z]", password):
    raise ValueError("Password must contain lowercase letter")
if not re.search(r"\d", password):
    raise ValueError("Password must contain number")
self.password_hash = generate_password_hash(password)</pre>
```

# 4. File Upload Security

## 5. Rate Limiting

```
# Add to requirements.txt: Flask-Limiter
from flask_limiter import Limiter
from flask_limiter.util import get_remote_address

limiter = Limiter(
    app,
    key_func=get_remote_address,
    default_limits=["1000 per hour"]
)

# Apply to sensitive endpoints
@app.route('/login', methods=['POST'])
@limiter.limit("5 per minute")
def login():
    # Login logic
```

## **Firewall Configuration**

## **UFW (Ubuntu Firewall)**

```
# Enable firewall
sudo ufw enable
# Allow SSH (if using)
sudo ufw allow ssh
```

```
# Allow HTTP and HTTPS
sudo ufw allow 80
sudo ufw allow 443
# Allow specific application port
sudo ufw allow 5000
# Check status
sudo ufw status
```

## **Fail2Ban (Intrusion Prevention)**

```
# Install Fail2Ban
sudo apt install fail2ban

# Configure for Flask app
sudo nano /etc/fail2ban/jail.local

[flask-app]
enabled = true
port = 5000
filter = flask-app
logpath = /var/log/rosecoin/app.log
maxretry = 5
bantime = 3600
```

## **Regular Security Tasks**

## 1. Security Updates

```
# Update system packages
sudo apt update && sudo apt upgrade -y
# Update Python packages
pip list --outdated
pip install --upgrade package_name
```

## 2. Log Monitoring

```
# Monitor application logs
tail -f logs/app.log

# Monitor system logs
sudo tail -f /var/log/auth.log
sudo tail -f /var/log/nginx/error.log
```

## 3. Database Security

```
# PostgreSQL security
sudo nano /etc/postgresql/12/main/postgresql.conf
# ssl = on
# log_statement = 'all'
# Backup encryption
pg_dump rosecoin | gpg --symmetric --cipher-algo AES256 > backup.sql.gpg
```

#### **Email System Setup**

# **SMTP Configuration**

## **Gmail SMTP Setup**

- 1. Enable 2-Factor Authentication on your Gmail account
- 2. Generate App Password:
  - Go to Google Account settings
  - Security → 2-Step Verification → App passwords
  - Generate password for "Mail"
- 3. Configure Environment Variables:

```
SMTP_SERVER=smtp.gmail.com
SMTP_PORT=587
SMTP_USERNAME=your-email@gmail.com
SMTP_PASSWORD=your-app-password
SMTP_USE TLS=true
```

#### **Other Email Providers**

#### **Outlook/Hotmail:**

SMTP\_SERVER=smtp-mail.outlook.com SMTP\_PORT=587 SMTP\_USE\_TLS=true

## Yahoo:

```
SMTP_SERVER=smtp.mail.yahoo.com
SMTP_PORT=587
SMTP_USE_TLS=true
```

#### **Custom SMTP:**

```
SMTP_SERVER=mail.yourdomain.com
SMTP_PORT=587 # or 465 for SSL
SMTP_USE_TLS=true # or false for SSL
```

### **Email Templates**

# **Customizing Email Templates**

### File: utils/smtp\_client.py

```
def get_email_template(template_name, **kwargs):
   templates = {
      'welcome': {
          'subject': 'Welcome to {app_name}!',
          'body':
          <body style="font-family: Arial, sans-serif;">
             <h2>Welcome to {app name}, {username}!</h2>
             Thank you for joining our cryptocurrency mining platform.
             Your account has been created successfully. You can now:
                Start mining coins
                Complete social media tasksRefer friends and earn commissions
                Participate in airdrops
             </body>
          </html>
       'withdrawal_approved': {
          'subject': 'Withdrawal Approved - {amount} DSC',
          <body style="font-family: Arial. sans-serif:">
             <h2>Withdrawal Approved!</h2>
             Dear {username},
             Your withdrawal request has been approved:
             Amount: {amount} DSC
                Method: {method}
                Processing Date: {date}
             Your payment will be processed within 24-48 hours.
             Best regards, <br>The {app_name} Team
          </body>
          </html>
      }
   template = templates.get(template name, {})
   return {
       'subject': template.get('subject', '').format(**kwargs),
      'body': template.get('body', '').format(**kwargs)
```

#### **Email Testing**

## **Test Email Configuration**

```
# test_email.py
from utils.smtp_client import send_email, test_smtp_connection
def test_email_system():
    # Test SMTP connection
    if test_smtp_connection():
        print("âœ... SMTP connection successful")
        # Send test email
        result = send_email(
    to_email="test@example.com"
             subject="Test Email from DSC Platform",
             body="<h1>Test Email</h1>If you receive this, email system is working!"
        )
        if result:
            print("âœ... Test email sent successfully")
        else:
            print("â@ Failed to send test email")
        print("â@ SMTP connection failed")
if __name__ == "__main__":
    test_email_system()
```

#### **Email Delivery Best Practices**

# 1. SPF Record

# Add to your DNS:

TXT record: v=spf1 include:\_spf.google.com ~all

## 2. DKIM Setup

## Configure DKIM signing for your domain

## 3. DMARC Policy

```
TXT record: v=DMARC1; p=quarantine; rua=mailto:dmarc@yourdomain.com
```

## **Payment Integration**

## **Supported Payment Methods**

## The platform supports multiple withdrawal methods:

- 1. PayPal
- 2. Bank Transfer
- 3. Cryptocurrency Wallets
- 4. Mobile Money
- 5. Gift Cards

# **PayPal Integration**

## **Setup PayPal API**

- 1. Create PayPal Developer Account
- 2. Get API Credentials
- 3. Configure Environment Variables:

```
PAYPAL_CLIENT_ID=your_client_id
PAYPAL_CLIENT_SECRET=your_client_secret
PAYPAL_MODE=sandbox # or live for production
```

# **PayPal Implementation**

# utils/paypal\_client.py

```
import paypalrestsdk
paypalrestsdk.configure({
     "mode": os.environ.get("PAYPAL_MODE", "sandbox"),
     "client_id": os.environ.get("PAYPAL_CLIENT_ID")
     "client_secret": os.environ.get("PAYPAL_CLIENT_SECRET")
def process_paypal_payment(email, amount):
    payout = paypalrestsdk.Payout({
          "sender_batch header": {
    "sender_batch_id": f"batch-{int(time.time())}",
    "email_subject": "Payment from rosecoin"
         },
"items": [{
               "recipient_type": "EMAIL",
               "amount": {
    "value": str(amount),
                    "currency": "USD"
               "receiver": email,
               "note": "Payment from DSC Platform"
         }]
    if payout.create():
         return True, payout.batch_header.payout_batch_id
          return False, payout.error
```

# **Cryptocurrency Integration**

## **Bitcoin/Ethereum Payments**

```
# utils/crypto_payments.py
import requests

def send_bitcoin_payment(address, amount):
    # Integration with cryptocurrency exchange API
    # Example: Coinbase Commerce, BitPay, etc.
    pass

def validate_crypto_address(address, currency):
    # Validate cryptocurrency address format
    if currency.lower() == 'bitcoin':
```

```
return validate_bitcoin_address(address)
elif currency.lower() == 'ethereum':
    return validate_ethereum_address(address)
return False
```

## **Manual Payment Processing**

# For manual payment methods (bank transfer, mobile money):

```
# core/admin.pv
@admin_bp.route('/withdrawals/process/<int:withdrawal_id>')
@login_required
@admin required
def process_withdrawal(withdrawal_id):
    withdrawal = Withdrawal.query.get_or_404(withdrawal_id)
    # Manual processing workflow
    if request.method == 'POST':
       action = request.form.get('action')
       if action == 'approve':
            withdrawal.status = 'approved'
            withdrawal.processed\_at = datetime.utcnow()
            # Send notification email
            {\tt send\_withdrawal\_approved\_email(withdrawal.user.email,\ withdrawal)}
        elif action == 'reject':
            withdrawal.status = 'rejected'
            withdrawal.user.balance += withdrawal.amount # Refund balance
        db.session.commit()
        flash(f'Withdrawal {action}d successfully!'. 'success')
    return redirect(url_for('admin.withdrawals'))
```

#### **Customization Guide**

#### **Theme Customization**

#### **Color Scheme**

## File: static/css/style.css

```
/* Primary Color Scheme */
:root {
   /* Main Colors */
    --primary-color: #667eea;
                                        /* Main brand color */
    --secondary-color: #764ba2;
                                        /* Secondary brand color */
    --accent-color: #f093fb;
                                       /* Accent highlights */
    /* Neutral Colors */
    --dark-color: #2c3e50;
                                        /* Dark text/backgrounds */
    --light-color: #ecf0f1:
                                        /* Light backgrounds */
    --white-color: #ffffff;
                                        /* Pure white */
    /* Status Colors */
    --success-color: #28a745;
                                        /* Success messages */
    --warning-color: #ffc107;
                                        /* Warning messages */
                                        /* Error messages */
    --danger-color: #dc3545;
    --info-color: #17a2b8;
                                        /* Info messages */
    /* Gradients */
    --gradient-primary: linear-gradient(135deg, var(--primary-color) 0%, var(--secondary-color) 100%);
--gradient-accent: linear-gradient(135deg, var(--accent-color) 0%, var(--primary-color) 100%);
/* Dark Mode Support */
@media (prefers-color-scheme: dark) {
    :root {
        --dark-color: #ecf0f1;
         --light-color: #2c3e50;
         --white-color: #34495e;
```

## **Component Styling**

```
/* Custom Button Styles */
.btn-custom {
    background: var(--gradient-primary);
    border: none;
    color: white;
    padding: 12px 24px;
    border-radius: 25px;
    font-weight: 600;
    transition: all 0.3s ease;
.btn-custom:hover {
    transform: translateY(-2px);
    box-shadow: 0 10px 20px rgba(102, 126, 234, 0.3);
/* Custom Card Styles */
. \verb|card-custom|| \{
    background: rgba(255, 255, 255, 0.1);
    backdrop-filter: blur(10px);
    border: 1px solid rgba(255, 255, 255, 0.2);
    border-radius: 15px;
```

Logo and Branding

# **Adding Custom Logo**

- 1. Add logo files to static/images/:
  - logo.png Main logo
  - ∘ logo-small.png Small version
  - favicon.ico Favicon
- 2. Update templates:

#### File: templates/base.html

```
<!-- Update header logo -->
<img src="{{ url_for('static', filename='images/logo.png') }}"
    alt="rosecoin" class="logo">
<!-- Update favicon -->
<link rel="icon" type="image/x-icon" href="{{ url for('static', filename='images/favicon.ico') }}">
```

#### **Custom Fonts**

```
/* Import custom fonts */
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700&display=swap');
body {
    font-family: 'Poppins', sans-serif;
}
h1, h2, h3, h4, h5, h6 {
    font-family: 'Poppins', sans-serif;
    font-weight: 600;
}
```

## **Layout Customization**

## **Custom Dashboard Layout**

#### File: templates/dashboard.html

```
<!-- Custom dashboard sections -->
<div class="dashboard-grid">
    <div class="stats-section":
        <div class="stat-card">
            <div class="stat-icon">
               <i class="fas fa-coins"></i>
            </div>
            <div class="stat-content">
               <h3>{{ current_user.balance }}</h3>
               Total Balance
            </div>
        </div>
        <!-- More stat cards -->
    <div class="activity-section">
       <h4>Recent Activity</h4>
        <!-- Activity feed -->
    </div>
    <div class="tasks-section">
        <h4>Available Tasks</h4>
        <!-- Task list -->
    </div>
```

## **Responsive Design**

```
/* Mobile-first responsive design */
.dashboard-grid {
    display: grid;
    grid-template-columns: 1fr;
    gap: 20px;
}

/* Tablet and up */
@media (min-width: 768px) {
    .dashboard-grid {
        grid-template-columns: 2fr 1fr;
    }
}

/* Desktop and up */
@media (min-width: 1024px) {
    .dashboard-grid {
        grid-template-columns: 2fr 1fr 1fr;
    }
}
```

## **Feature Customization**

# **Adding New Task Types**

#### File: models/task.py

## **Custom Mining Mechanics**

#### File: static/js/mining.js

```
class CustomMiningSystem extends MiningSystem {
    constructor() {
        super();
        this.bonusMultiplier = 1.0;
        this.streakBonus = 0;
    calculateMiningReward(baseReward) {
        // Custom reward calculation
        let reward = baseReward * this.bonusMultiplier;
        // Streak bonus
        if (this.streakBonus > 0) {
            reward *= (1 + this.streakBonus * 0.1);
        // Time-based bonus
        const hour = new Date().getHours(); if (hour >= 18 && hour <= 22) { // Evening bonus}
        return Math.round(reward);
    }
    addCustomAnimation() {
        // Custom mining animation
        const miningButton = document.getElementById('mining-button');
        // Add particle effect
        this.createParticles(miningButton);
        // Add screen shake
        document.body.classList.add('mining-shake');
        setTimeout(() => {
            document.body.classList.remove('mining-shake');
   }
```

## **Admin Panel Configuration**

## **Admin Account Setup**

#### **Default Admin Account**

- Email: admin@rosecoin.com
- · Password: admin123
- Access: Full administrative privileges

#### **Creating Additional Admins**

```
# Create admin user programmatically
from models.user import User
from werkzeug.security import generate_password_hash

def create_admin_user(username, email, password):
    admin_user = User(
        username=username,
        email=email,
        password_hash=generate_password_hash(password),
        is_admin=True,
        email_verified=True,
        balance=0,
        xp=0,
        level=1
}
```

db.session.add(admin\_user)
db.session.commit()
print(f"Admin user {username} created successfully!")

#### **Admin Panel Features**

#### **Dashboard Overview**

- User Statistics: Total users, active users, new registrations
- Financial Overview: Total balance, pending withdrawals, revenue
- System Status: Server health, database status, background tasks
- · Recent Activity: Latest user actions, system events

## **User Management**

- User List: View all users with filtering and search
- User Details: Complete user profiles with activity history
- User Actions:
  - Edit user information
  - Adjust balances and XP
  - Ban/unban users
  - Delete accounts (with data preservation options)

### **Task Management**

- · Create Tasks: Add new social media tasks
- · Task Categories: Organize tasks by platform and type
- Task Review: Approve/reject task completions
- Bulk Operations: Process multiple tasks simultaneously

#### **Withdrawal Management**

- Pending Withdrawals: Review and process withdrawal requests
- Payment Methods: Configure supported payment options
- Bulk Processing: Process multiple withdrawals
- Payment History: Track all processed payments

## **System Settings**

- Platform Configuration: App name, descriptions, maintenance mode
- Mining Settings: Rates, bonuses, daily limits
- Referral Settings: Commission rates, maximum levels
- Email Settings: SMTP configuration, template management

## **Admin Security**

#### **Role-Based Access**

```
# models/admin.py
class AdminRole(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(50), unique=True, nullable=False)
    permissions = db.Column(db.JSON, default=list)

class AdminUser(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    user_id = db.Column(db.Integer, db.ForeignKey('user.id'), nullable=False)
    role_id = db.Column(db.Integer, db.ForeignKey('admin_role.id'), nullable=False)
    created_at = db.Column(db.DateTime, default=datetime.utcnow)

# Permission decorator
def require_permission(permission):
    def decorator(f):
```

```
@wraps(f)
    def decorated_function(*args, **kwargs):
        if not current_user.has_permission(permission):
            abort(403)
        return f(*args, **kwargs)
        return decorated_function
    return decorator

# Usage
@admin_bp.route('/users/delete/<int:user_id>')
@login_required
@admin_required
@admin_required
@require_permission('delete_users')
def delete_user(user_id):
        # Delete user logic
        pass
```

## **Admin Activity Logging**

```
# models/admin_log.py
class AdminLog(db.Model):
     id = db.Column(db.Integer, primary key=True)
     admin_id = db.Column(db.Integer, db.ForeignKey('user.id'), nullable=False)
     action = db.Column(db.String(100), nullable=False)
target_type = db.Column(db.String(50)) # user, task, withdrawal, etc.
     target_id = db.Column(db.Integer)
     details = db.Column(db.JSON)
    ip_address = db.Column(db.String(45))
user_agent = db.Column(db.Text)
     created_at = db.Column(db.DateTime, default=datetime.utcnow)
# Log admin actions
def log_admin_action(action, target_type=None, target_id=None, details=None):
    log_entry = AdminLog(
    admin_id=current_user.id,
         action=action,
         target_type=target_type,
         target_id=target_id,
         details=details,
         ip_address=request.remote_addr,
         user_agent=request.user_agent.string
     db.session.add(log_entry)
     db.session.commit()
```

#### **Admin Panel Customization**

#### **Custom Admin Theme**

#### File: static/css/admin.css

```
/* Admin panel custom styling */
.admin-nanel {
    background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
    min-height: 100vh;
.admin-sidebar {
    background: rgba(255, 255, 255, 0.1);
    backdrop-filter: blur(10px);
    border-right: 1px solid rgba(255, 255, 255, 0.2);
.admin-card {
    background: rgba(255, 255, 255, 0.95);
    border-radius: 15px;
box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
    border: none;
.admin-stat-card {
    background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
    color: white:
    border-radius: 15px;
    padding: 20px;
    margin-bottom: 20px;
```

## **Dashboard Widgets**

```
core/admin.py - Custom dashboard widgets
def get_dashboard_stats():
    stats = {
          total_users': User.query.count(),
         'active_users': User.query.filter_by(is_active=True).count(),
'total_balance': db.session.query(func.sum(User.balance)).scalar() or 0,
         'pending_withdrawals': Withdrawal.query.filter_by(status='pending').count(),
         'completed_tasks_today': TaskCompletion.query.filter(
             TaskCompletion.submitted_at >= datetime.utcnow().date()
         ).count(),
          revenue_today': calculate_daily_revenue(),
    return stats
def calculate_daily_revenue():
    # Calculate revenue from promotions, fees, etc.
    today = datetime.utcnow().date()
      Implementation based on your revenue model
    return 0.0
```

#### **Troubleshooting**

#### **Common Issues and Solutions**

#### 1. Database Connection Issues

Issue: sqlalchemy.exc.OperationalError: (sqlite3.OperationalError) database is locked

#### **Solution:**

# Check for processes using the database
sudo lsof /path/to/rosecoin.db

## 2. Email Sending Failures

**Issue: SMTP authentication errors** 

## **Diagnosis:**

```
# Test email configuration
from utils.smtp_client import test_smtp_connection

if test_smtp_connection():
    print("â@... SMTP connection successful")
else:
    print("â@ SMTP connection failed - check credentials")
```

Solutions: - Verify SMTP credentials - Enable "Less secure app access" for Gmail (or use App Passwords) - Check firewall settings for SMTP ports - Verify TLS/SSL settings

## 3. File Upload Issues

Issue: File uploads failing or corrupting

#### Check permissions:

```
# Check upload directory permissions
ls -la uploads/
chmod 755 uploads/
chown www-data:www-data uploads/
```

#### Check file size limits:

```
# app.py
app.config['MAX_CONTENT_LENGTH'] = 16 * 1024 * 1024 # 16MB
```

#### 4. Performance Issues

Issue: Slow page loading, high server load

## **Database optimization:**

```
# Add database indexes
class User(db.Model):
    email = db.Column(db.String(120), unique=True, nullable=False, index=True)
    username = db.Column(db.String(80), unique=True, nullable=False, index=True)
    created_at = db.Column(db.DateTime, default=datetime.utcnow, index=True)
```

#### **Query optimization:**

```
# Use eager loading for relationships
users = User.query.options(joinedload(User.mining_sessions)).all()
# Paginate large result sets
users = User.query.paginate(page=1, per_page=50)
```

#### Static file caching:

# Nginx configuration location /static/ { alias /var/www/rosecoin/static/; expires ly; add\_header Cache-Control "public, immutable"; }

#### 5. Mining System Issues

**Issue: Mining button not responding** 

## **Check JavaScript errors:**

```
// Enable debugging in mining.js
class MiningSystem {
  constructor() {
     this.debug = true; // Enable debug mode
     this.initMining();
  }
  mine() {
     if (this.debug) console.log('Mining attempt started');
     // Mining logic
  }
}
```

## **Check network requests:**

```
# Add logging to mining endpoint
@mining_bp.route('/mine', methods=['POST'])
@login_required
def mine():
    app.logger.info(f'Mining request from user {current_user.id}')
    # Mining logic
```

## **Error Log Analysis**

# **Log Configuration**

## **Common Error Patterns**

#### **Database Errors:**

ERROR: (sqlite3.IntegrityError) UNIQUE constraint failed: user.email

Solution: Check for duplicate email registrations

## **Template Errors:**

jinja2.exceptions.TemplateNotFound: template.html

Solution: Verify template file exists and path is correct

#### **Import Errors:**

ImportError: No module named 'package name'

• Solution: Install missing dependencies with pip install package\_name

#### **Performance Monitoring**

## **System Resource Monitoring**

```
# Monitor CPU and memory usage
htop

# Monitor disk usage
df -h

# Monitor database performance
sudo tail -f /var/log/postgresql/postgresql-12-main.log
```

## **Application Performance**

```
# Add performance monitoring
import time
from flask import g

@app.before_request
def before_request():
    g.start_time = time.time()

@app.after_request
def after_request(response):
    if hasattr(g, 'start_time'):
        total_time = time.time() - g.start_time
        if total_time > 1.0: # Log slow requests
```

```
app.logger.warning(f'Slow\ request:\ \{request.endpoint\}\ took\ \{total\_time:.2f\}s') return response
```

# **Backup and Recovery**

## **Automated Backup System**

```
# utils/backup.py
import os
import json
import shutil
from datetime import datetime
def create_backup():
    timestamp = datetime.now().strftime('%Y%m%d_%H%M%S')
    backup_dir = f'backups/backup_{timestamp}
    os.makedirs(backup_dir, exist_ok=True)
    # Backup database
    if app.config['SQLALCHEMY DATABASE URI'].startswith('sqlite'):
        shutil.copy2('instance/rosecoin.db',
f'{backup_dir}/database.db')
    # Backup uploads
    shutil.copytree('uploads', f'{backup_dir}/uploads')
    # Backup configuration
    backup_config = {
         'timestamp': timestamp,
'app_version': '1.0',
'database_type': 'sqlite'
         'user_count': User.query.count(),
    with open(f'\{backup\_dir\}/backup\_info.json', 'w') as f:
        json.dump(backup_config, f, indent=2)
    return backup_dir
# Schedule backup (add to cron)
        * * cd /var/www/rosecoin && python -c "from utils.backup import create_backup; create_backup()"
```

### **Maintenance & Updates**

## **Regular Maintenance Tasks**

# **Daily Tasks**

- Monitor application logs
- Check system resources (CPU, memory, disk)
- Review user activity and detect anomalies
- Process pending withdrawals
- Backup database

## **Weekly Tasks**

- Update system packages
- · Review security logs
- Clean up temporary files
- Analyze performance metrics
- Update documentation

#### **Monthly Tasks**

- Security audit
- · Full system backup
- · Performance optimization review
- User feedback analysis
- · Feature planning

## **Update Procedures**

## **Application Updates**

## 1. Backup Current System

```
# Create backup before updates
python -c "from utils.backup import create backup; create backup()"
```

## 2. Update Dependencies

```
# Update Python packages
pip list --outdated
pip install --upgrade package_name
# Update requirements.txt
pip freeze > requirements.txt
```

# 3. Database Migrations

```
# Create migration script
from app import app, db
from flask_migrate import Migrate, upgrade
migrate = Migrate(app, db)
# Run migrations
upgrade()
```

## 4. Test Updates

```
# Run test suite (if available)
python -m pytest tests/
# Manual testing checklist:
# - User registration/login
# - Mining functionality
# - Task completion
# - Admin panel access
# - Email notifications
```

## **Security Updates**

# **System Security Updates:**

```
# Ubuntu/Debian
sudo apt update && sudo apt upgrade -y
# CentOS/RHEL
sudo yum update -y
```

# **Python Security Updates:**

```
# Check for security vulnerabilities
pip install safety
safety check
# Update vulnerable packages
pip install --upgrade vulnerable-package
```

#### **SSL Certificate Renewal:**

```
# Let's Encrypt renewal
sudo certbot renew
# Check certificate expiry
openssl x509 -in /path/to/certificate.crt -text -noout | grep "Not After"
```

## **Version Control**

# Git Workflow # Initialize repository

```
git init
git add .
git commit -m "Initial commit"

# Create development branch
git checkout -b development

# Make changes and commit
git add modified_files
git commit -m "Feature: Add new functionality"

# Merge to main branch
git checkout main
git merge development

# Tag releases
git tag -a v1.0.1 -m "Version 1.0.1 release"
git push origin v1.0.1
```

# **Configuration Management**

```
# config.py - Environment-based configuration
import os

class Config:
    SECRET_KEY = os.environ.get('SECRET_KEY') or 'dev-secret-key'
    SQLALCHEMY_DATABASE_URI = os.environ.get('DATABASE_URL') or 'sqlite:///rosecoin.db'
    SQLALCHEMY_TRACK_MODIFICATIONS = False
```

```
class DevelopmentConfig(Config):
    DEBUG = True
    TESTING = False

class ProductionConfig(Config):
    DEBUG = False
    TESTING = False

class TestingConfig(Config):
    DEBUG = True
    TESTING = True
    SQLALCHEMY_DATABASE_URI = 'sqlite:///test.db'

config = {
    'development': DevelopmentConfig,
    'production': ProductionConfig,
    'testing': TestingConfig,
    'default': DevelopmentConfig
```

# **Monitoring and Alerts**

# **Health Check Endpoints**

```
# app.py - Health check endpoints
@app.route('/health')
def health_check():
     health_status = {
    'status': 'healthy',
          'timestamp': datetime.utcnow().isoformat(),
'version': '1.0',
'checks': {
               'database': check_database_health(),
              'email': check_email_health(),
'storage': check_storage_health()
         }
    }
    # Determine overall health
     if all(health_status['checks'].values()):
         return jsonify(health_status), 200
     else:
         health_status['status'] = 'unhealthy'
          return jsonify(health_status), 503
def check_database_health():
     try:
         db.session.execute('SELECT 1')
         return True
     except Exception:
          return False
def check_email_health():
    try:

from utils.smtp_client import test_smtp_connection
         return test_smtp_connection()
     except Exception:
         return False
def check_storage_health():
     import shutil
     try:
         .
disk_usage = shutil.disk_usage('.')
free_space_gb = disk_usage.free / (1024**3)
         return free_space_gb > 1.0 # At least 1GB free
     except Exception:
         return False
```

## **Alerting System**

```
# utils/alerts.py
import smtplib
from email.mime.text import MIMEText
def send_alert(subject, message, severity='info'):
    """Send alert email to administrators"""
     admin_emails = ['admin@yourdomain.com']
     msg = MIMEText(f"""
     Alert: {subject}
     Severity: {severity}
     Time: {datetime.utcnow()}
     Details:
     {message}
      Server: {os.uname().nodename}
     Application: rosecoin """)
     msg['Subject'] = f'[DSC Alert] {subject}'
msg['From'] = 'alerts@yourdomain.com'
msg['To'] = ', '.join(admin_emails)
           smtp = smtplib.SMTP('localhost')
           smtp.send_message(msg)
           smtp.quit()
           return True
     except Exception as e:
    app.logger.error(f'Failed to send alert: {e}')
    return False
# Usage in application
```

```
def monitor_system():
    # Check critical metrics
    if not check_database_health():
        send_alert('Database Connection Failed', 'Cannot connect to database', 'critical')

# Check disk space
free_space = shutil.disk_usage('.').free / (1024**3)
if free_space < 1.0:
        send_alert('Low Disk Space', f'Only {free_space:.2f}GB remaining', 'warning')</pre>
```

#### **API Documentation**

#### **Authentication API**

## **Login Endpoint**

```
POST /auth/login Content-Type: application/json { "email": "user@example.com", "password": "password123"
}
```

### **Response:**

```
"success": true,

"user": {

    "id": 1,

    "username": "testuser",

    "email": "user@example.com",

    "balance": 1500.50,

    "level": 5,

    "xp": 2500
},

"session_token": "abc123..."
```

## **Registration Endpoint**

```
POST /auth/register Content-Type: application/json { "username": "newuser", "email":
  "newuser@example.com", "password": "password123", "referral_code": "ABC123" // optional }
```

## **Mining API**

#### **Mine Coins**

POST /mining/mine Authorization: Bearer <session\_token> Content-Type: application/json { "mining\_power":
1.0 }

## **Response:**

```
{
    "success": true,
    "coins_earned": 25.5,
    "new_balance": 1526.0,
    "xp_gained": 10,
    "new_xp": 2510,
    "level_up": false,
    "cooldown": 60
}
```

#### **Get Mining Stats**

GET /mining/stats Authorization: Bearer <session\_token>

## **Response:**

```
{
    "total_mined": 5000.0,
    "mining_sessions": 250,
    "last_mining": "2025-07-19T10:30:00Z",
    "next_available": "2025-07-19T10:31:00Z",
    "daily_limit": 1000.0,
    "daily_mined": 150.0
}
```

#### Task API

## **Get Available Tasks**

GET /tasks/available Authorization: Bearer <session token>

## **Response:**

```
"requirements": "Must follow the account"
}

],

"total": 10,

"page": 1,

"per_page": 20
```

## **Submit Task Completion**

```
POST /tasks/complete/<task_id> Authorization: Bearer <session_token> Content-Type: multipart/form-data { "proof_text": "Completed the task as requested", "proof_image": <file_upload> }
```

#### **User API**

#### **Get User Profile**

GET /api/user/profile Authorization: Bearer <session\_token>

### **Response:**

```
"id": 1,

"username": "testuser",

"email": "user@example.com",

"balance": 1500.50,

"xp": 2500,

"level": 5,

"mining_power": 1.2,

"referral_code": "ABC123",

"created_at": "2025-01-01T00:00:002",

"last_login": "2025-07-19T10:00:002"
```

## **Update Profile**

```
PUT /api/user/profile Authorization: Bearer <session_token> Content-Type: application/json { "username":
   "newusername", "wallet_address": "0x123..." }
```

#### **Admin API**

## **Get System Stats**

GET /api/admin/stats Authorization: Bearer <admin token>

#### **Response:**

```
"users": {
    "total": 1000,
    "active": 850,
    "new_today": 25
},
"financial": {
    "total_balance": 50000.0,
    "pending_withdrawals": 50000.0,
    "revenue_today": 100.0
},
"tasks": {
    "pending_review": 15,
    "completed_today": 150
}
```

# Webhook API

#### Withdrawal Status Update

```
POST /webhooks/withdrawal-status Content-Type: application/json Authorization: Bearer <webhook_secret> { "withdrawal_id": 123, "status": "completed", "transaction_id": "tx123...", "processed_at": "2025-07-19T10:30:00Z" }
```

#### **Rate Limiting**

All API endpoints are rate-limited: - General endpoints: 1000 requests per hour per IP - Mining endpoint: 1 request per minute per user - Authentication endpoints: 5 requests per minute per IP - Admin endpoints: 100 requests per hour per admin

#### **Error Responses**

```
"success": false,
"error": {
    "code": "INSUFFICIENT_BALANCE",
    "message": "Not enough balance for this operation",
    "details": {
        "required": 100.0,
        "available": 50.0
    }
}
```

Common Error Codes: - AUTHENTICATION\_FAILED - Invalid credentials - AUTHORIZATION\_REQUIRED - Missing or invalid token - RATE\_LIMIT\_EXCEEDED - Too many requests - VALIDATION\_ERROR - Invalid input data - RESOURCE\_NOT\_FOUND - Requested resource doesn't exist - INSUFFICIENT\_BALANCE - Not enough funds - MINING\_COOLDOWN - Mining too frequently - TASK\_ALREADY\_COMPLETED - Task already submitted

## **Support & Contact**

## **Getting Help**

#### **Documentation Resources**

- · Installation Guide: This document
- API Documentation: Section 16 of this guide
- · Video Tutorials: Available on our support portal
- FAQ: Common questions and solutions

## **Support Channels**

Email Support: - General Support: support@rosecoin.com - Technical Issues: tech@rosecoin.com - Business Inquiries: business@rosecoin.com

Response Times: - Critical Issues: Within 2 hours - General Support: Within 24 hours - Feature Requests: Within 48 hours

# **Community Support**

Discord Community: - Join our Discord server for real-time help - Connect with other platform operators - Get unofficial community support

 ${\bf Git Hub\ Repository: - Report\ bugs\ and\ issues-Request\ new\ features-Contribute\ to\ the\ project-Access\ source\ code\ updates}$ 

#### **Professional Services**

## **Custom Development**

We offer custom development services for: - Custom feature development - Third-party integrations - UI/UX customization - Performance optimization - Security audits

#### **Managed Hosting**

- Fully managed hosting solutions
- 99.9% uptime guarantee
- Automatic backups and updates
- 24/7 monitoring and support
- Scalability management

## **Consulting Services**

- Platform strategy consultation
- Marketing and growth advice
- · Technical architecture review
- Security assessment
- Compliance guidance

#### **Author Information**

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**License Information** 

This software is licensed under a commercial license.

License Terms: - âœ... Commercial use permitted - âœ... Modification allowed - âœ... Distribution allowed (with restrictions) - âœ... Private use permitted - ⌠Sublicensing not permitted - ⌠Warranty not provided

Usage Rights: - Single domain license (upgrade available) - Unlimited users per domain - Free updates for 12 months - Extended support options available

## Changelog

Version 1.0.0 (Current)

- Initial release
- Complete mining platform
- Social media task system
- Referral program
- Admin panel
- PWA support
- Multi-language ready

## **Planned Updates**

Version 1.1.0 (Q3 2025): - AI-powered task verification - Mobile app (iOS/Android) - Advanced analytics dashboard - Multi-currency support - Enhanced security features

Version 1.2.0 (Q4 2025): - Blockchain integration - NFT rewards system - Advanced gamification - Social trading features - Enterprise features

#### **Acknowledgments**

Special Thanks: - Flask community for the excellent framework - Bootstrap team for the UI framework - All beta testers and early adopters - Open source contributors

Third-Party Libraries: - Flask and extensions (MIT License) - Bootstrap (MIT License) - Font Awesome (Font Awesome License) - ¡Ouery (MIT License)

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This documentation is comprehensive and covers all aspects of installing, configuring, and maintaining the rosecoin platform. For the most up-to-date information and additional resources, please visit our support portal or contact our team directly.