

# Event Registration & Email Management System

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## New Features Implementation Guide

**Date:** 27 January 2026

**Version:** 1.0

**Status:**  Implemented and Tested

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### Overview

This document describes the new event registration system and enhanced email management features that have been added to the MakePlus platform based on the requirements in [new\\_instructions.md](#).

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### Features Implemented

1.  Public Event Registration System

#### 1.1 Event Registration Form

**URL:** [/api/events/{event\\_id}/register/](/api/events/{event_id}/register/)

**Features:**

- Customizable registration form per event
- Beautiful responsive design with countdown timer
- Workshop selection grouped by day
- All required fields in logical order (as specified)
- Anti-spam protection
- Email confirmation system

#### Registration Fields (In Order):

1. Nom (Last name)
2. Prénom (First name)
3. Email
4. Numéro de téléphone (Phone number)
5. Pays (Country)
6. Wilaya (State/Province)
7. Secteur (Sector: Private/Public)
8. Établissement (Institution)
9. Spécialité (Specialty)
10. Ateliers (Workshop selection per day)

#### 1.2 Event Configuration

## New Event Model Fields:

- registration\_enabled (Boolean): Enable/disable public registration
- registration\_description (Text): Custom description **for** registration page
- registration\_fields\_config (JSON): Configure which fields are enabled/required

## Admin Configuration:

- Enable/disable registration per event
  - Customize registration page description
  - Override event description for registration page
- 

## 2. Enhanced Email Template System with Unlayer

### 2.1 Visual Email Builder (Unlayer Integration)

#### New Modern Email Editor:

- **Unlayer Email Editor** - Professional drag-and-drop email builder
- **Real-time Preview** - See exactly how emails will look
- **Responsive Design** - Mobile-friendly email templates
- **Rich Components** - Text, images, buttons, columns, dividers, and more
- **Built-in Merge Tags** - Easy variable insertion
- **Save & Export** - Save designs as JSON, export as HTML

#### New EmailTemplate Fields:

- body\_html (Text): Unlayer-generated HTML output
- builder\_config (JSON): Unlayer design JSON **for** re-editing
- template\_type (Choice): Type of email (invitation, confirmation, etc.)
- is\_active (Boolean): Enable/disable template

#### Template Types:

- Invitation
- Confirmation
- Reminder
- Follow-up
- Announcement
- Registration Confirmation
- Custom

### 2.2 Template Management Features

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### **Create New Templates with Unlayer:**

- Drag-and-drop email design interface
- Professional pre-built components
- Real-time visual editing
- Settings panel for template metadata
- Built-in merge tag support
- One-click preview
- Auto-save design configuration

### **Edit Templates:**

- Re-open saved designs in Unlayer
- Modify any element visually
- Update subject and settings
- Preview before saving
- Export HTML automatically

### **Advanced Features:**

- **Merge Tags Panel** - All available variables in one place
- **Click to Copy** - One-click variable copying
- **Full-Screen Editor** - Distraction-free design mode
- **Responsive Preview** - Test on different devices
- **Design Export** - Unlayer JSON saved for future editing
- **HTML Export** - Clean, email-client-compatible HTML

### **Template Variables:**

Available variables for personalization:

- {{event\_name}} - Event name
- {{event\_location}} - Event location
- {{event\_start\_date}} - Start date
- {{event\_end\_date}} - End date
- {{first\_name}} - Recipient first name
- {{last\_name}} - Recipient last name
- {{participant\_name}} - Full name
- {{email}} - Email address
- {{telephone}} - Phone number
- {{établissement}} - Institution
- {{badge\_id}} - Badge ID (for participants)
- {{qr\_code\_url}} - QR code URL (for participants)

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## 3. Send Emails to Event Registrants

### **3.1 Email to Registrants**

**URL:** /dashboard/events/{event\_id}/email-templates/{template\_id}/send-to-registrants/

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### **Target Groups:**

- All Registrants (non-spam)
- Confirmed Registrants (email confirmed)
- Not Confirmed (pending confirmation)
- No User Account Yet (registered but no system account)

### **Features:**

- Select target group
- Preview email before sending
- Variable replacement for personalization
- Bulk sending with error tracking
- Success/failure reporting

## **3.2 Email to Participants**

**URL:** [/dashboard/events/{event\\_id}/email-templates/{template\\_id}/send/](/dashboard/events/{event_id}/email-templates/{template_id}/send/)

### **Target Groups:**

- All Event Participants
  - Participants Who Attended
  - Participants Who Did Not Attend
  - Participants Who Paid
  - Participants Who Did Not Pay
  - Custom Selection
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## 4. Registration Management Dashboard

### **4.1 View Registrations**

**URL:** [/dashboard/events/{event\\_id}/registrations/](/dashboard/events/{event_id}/registrations/)

### **Features:**

- View all event registrations
- Filter by status (confirmed, pending, spam, with/without account)
- Search by name, email, phone, institution
- Statistics cards showing counts
- Detailed view modal for each registration

### **Statistics Displayed:**

- Total registrations
  - Confirmed registrations
  - Not confirmed
  - With user account
  - Without user account
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- Spam registrations

## 4.2 Registration Actions

### Approve Registration:

- Creates user account automatically
- Generates QR code via UserProfile
- Creates Participant record
- Creates UserEventAssignment (role: participant)
- Links registration to user and participant

### Delete Registration:

- Remove spam registrations
- Remove duplicate registrations
- Clean up invalid data

### View Details:

- Full registration information
  - Selected workshops
  - IP address and user agent
  - Spam score
  - Creation date
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## 5. Anti-Spam Protection

### 5.1 Spam Detection

#### Spam Score Calculation:

- Special characters in email: +10 points
- Invalid phone format: +15 points
- Multiple submissions from same IP (5 min window): +50 points
- Duplicate email submissions (1 hour window): +40 points

**Spam Threshold:** Score > 50 = Flagged as spam

#### Protection Measures:

- IP address tracking
- User agent logging
- Submission rate limiting
- Duplicate email detection
- Automatic spam flagging

### 5.2 Spam Management

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## Dashboard Features:

- View spam registrations separately
  - Spam count statistics
  - Visual indication (red highlighting)
  - Ability to delete spam registrations
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## Database Schema

### EventRegistration Model

```
class EventRegistration(models.Model):  
    id = UUIDField (Primary Key)  
    event = ForeignKey(Event)  
  
    # Personal Information  
    nom = CharField(100)  
    prenom = CharField(100)  
    email = EmailField  
    telephone = CharField(20)  
  
    # Location  
    pays = CharField(100)  
    wilaya = CharField(100)  
  
    # Professional  
    secteur = CharField(20) # prive/public  
    etablissement = CharField(200)  
    specialite = CharField(200)  
  
    # Workshops  
    ateliers_selected = JSONField # {day: [session_ids]}  
    # Status  
    is_confirmed = Boolean  
    confirmation_sent_at = DateTime  
  
    # User Account  
    user = ForeignKey(User) nullable  
    participant = ForeignKey(Participant) nullable  
  
    # Anti-Spam  
    ip_address = GenericIPAddressField  
    user_agent = TextField  
    spam_score = Integer  
    is_spam = Boolean  
  
    # Metadata  
    metadata = JSONField
```

```
created_at = DateTime  
updated_at = DateTime
```

## Updated Event Model

```
class Event(models.Model):  
    # ... existing fields ...  
  
    # NEW: Registration Settings  
    registration_enabled = Boolean  
    registration_description = Text  
    registration_fields_config = JSONField
```

## Updated EmailTemplate Models

```
class EmailTemplate(models.Model):  
    # ... existing fields ...  
  
    # NEW: Visual Builder Support  
    body_html = Text  
    builder_config = JSONField  
    template_type = CharField(20)  
    is_active = Boolean  
  
    # NEW: Method  
    def duplicate(new_name):  
        """Create copy of template"""  
  
class EventEmailTemplate(models.Model):  
    # ... existing fields ...  
  
    # NEW: Visual Builder Support  
    body_html = Text  
    builder_config = JSONField  
    template_type = CharField(30)  
    is_active = Boolean  
  
    # NEW: Method  
    def duplicate(new_name):  
        """Create copy of template"""
```

## 🔗 URLs Added

### Public URLs (No Auth Required)

```
# Event Registration Pages  
/api/events/{event_id}/register/  
/api/events/{event_id}/register/submit/  
/api/registration/success/{registration_id}/  
  
# API Endpoint (JSON)  
/api/events/{event_id}/register/ [POST]
```

## Dashboard URLs (Auth Required)

```
# Registration Management  
/dashboard/events/{event_id}/registrations/  
/dashboard/registrations/{registration_id}/approve/ [POST]  
/dashboard/registrations/{registration_id}/delete/ [POST]  
  
# Send Email to Registrants  
/dashboard/events/{event_id}/email-templates/{template_id}/send-to-registrants/
```

## Templates Created

### Public Templates

#### 1. **public\_registration.html** - Main registration form

- Event banner display
- Event description
- Countdown timer
- Registration form with all fields
- Workshop selection (grouped by day)
- Responsive design

#### 2. **registration\_success.html** - Success confirmation page

- Success message
- Registration details
- Email confirmation notice

#### 3. **registration\_closed.html** - Closed registration page

- Information message
- Event details

### Dashboard Templates

#### 1. **email\_template\_form.html** - NEW: Unlayer Email Editor

- Full-screen Unlayer editor integration
- Settings modal (name, subject, type, active status)
- Preview modal with subject line
- Merge tags panel with click-to-copy
- Action bar (back, preview, settings, save)
- Loading overlay
- Auto-save design configuration

## 2. **event\_email\_template\_form.html** - NEW: Event-Specific Unlayer Editor

- Same Unlayer features as global templates
- Event context badge display
- Base template support (duplicate from global)
- Event-specific merge tags

## 3. **event\_registrations.html** - Registration management

- Statistics cards
- Filter buttons
- Search bar
- Registration table
- Detail modals
- Action buttons

## 4. **send\_email\_to\_registrants.html** - Send email interface

- Target group selection
  - Preview panel
  - Event information
  - Send button
- 

## User Interface Features

### Public Registration Page

#### Visual Elements:

- Event banner at top
- Event title and description
- Countdown timer (days, hours, minutes)
- Form sections with icons
- Workshop cards with pricing
- Color-coded status badges
- Gradient backgrounds
- Responsive grid layout

#### User Experience:

- Clean, modern design
-

- Easy-to-fill form
- Clear section organization
- Mobile-friendly
- Real-time countdown
- Instant validation

## Dashboard Management

### Visual Elements:

- **Unlayer Email Editor** - Full drag-and-drop interface
- Statistics cards with counts
- Filter button group
- Search functionality
- Color-coded status badges
- Action button groups
- Detail modals
- Responsive tables
- Merge tags panel
- Preview modal

### User Experience:

- Professional email design without coding
- Drag-and-drop components
- Real-time preview
- One-click merge tag insertion
- Quick filters
- Easy search
- Bulk actions
- One-click approval
- Detailed information
- Clear feedback messages

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## 🚀 Usage Guide

### For Event Organizers

#### 1. Enable Registration for Event

```
# In Django Admin or Dashboard
event.registration_enabled = True
event.registration_description = "Join us for the biggest tech event!"
event.save()
```

## 2. Share Registration Link

<https://yourdomain.com/api/events/{event-uuid}/register/>

## 3. Monitor Registrations

1. Go to Dashboard → Events → [Event Name]
2. Click "View Registrations"
3. See statistics and filter as needed

## 4. Approve Registrations

1. Filter by "No Account"
2. Click green "+" button to create user account
3. User account + QR code + participant created automatically

## 5. Send Emails to Registrants

1. Go to Event → Email Templates
2. Create or select template
3. Click "Send to Registrants"
4. Select target group
5. Click Send

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## For Administrators

### 1. Create Email Template

1. Dashboard → Email Templates → Create
2. **Unlayer editor loads automatically**
3. **Design your email:**
  - Drag components from left panel
  - Add text, images, buttons, columns
  - Style with visual controls
  - Use merge tags for personalization
4. Click "Settings" button:
  - Enter template name
  - Enter email subject
  - Select template type
  - Set active status
5. Click "Preview" to see final result
6. Click "Save Template"
7. Design JSON auto-saved for future editing

## 2. Manage Spam

1. Go to Event Registrations
2. Click "Spam" filter
3. Review flagged registrations
4. Delete spam entries

## 3. Export Registrations

```
# Use Django Admin  
# Select event registrations  
# Choose "Export to CSV" action
```

## 🔧 Configuration Options

### Email Settings

#### Required settings in `settings.py`:

```
# Email Backend  
EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'  
EMAIL_HOST = 'smtp.gmail.com'  
EMAIL_PORT = 587  
EMAIL_USE_TLS = True  
EMAIL_HOST_USER = 'your-email@gmail.com'  
EMAIL_HOST_PASSWORD = 'your-app-password'  
DEFAULT_FROM_EMAIL = 'MakePlus <noreply@makeplus.com>'
```

### Anti-Spam Configuration

#### Adjustable parameters in `views_registration.py`:

```
# Submission rate limit  
recent_submissions_minutes = 5  
max_submissions_per_ip = 3  
  
# Duplicate email check  
duplicate_check_hours = 1  
max_duplicate_emails = 2  
  
# Spam threshold  
spam_threshold = 50
```

# Statistics & Reporting

## Registration Statistics

### Available Metrics:

- Total registrations
- Confirmed vs not confirmed
- With user accounts vs without
- Spam count
- Registrations per day
- Workshop selections

## Email Statistics

### Tracking:

- Emails sent count
  - Success count
  - Failure count
  - Target groups used
  - Sending history
- 

# Security Features

## Data Protection

- IP Address Logging:** Track submission source
- User Agent Tracking:** Identify automated submissions
- Rate Limiting:** Prevent spam floods
- Email Validation:** Ensure valid email format
- CSRF Protection:** Secure form submissions
- SQL Injection Prevention:** Django ORM protection

## Privacy

- GDPR Compliant:** Registration data can be deleted
  - Consent Required:** Registration implies consent
  - Data Minimization:** Only essential fields collected
  - Secure Storage:** Encrypted database
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# Troubleshooting

## Common Issues

### 1. Countdown Timer Not Updating

- Check JavaScript is enabled

- Verify time\_until\_event is passed to template

## 2. Email Not Sending

- Check EMAIL\_BACKEND configuration
- Verify SMTP credentials
- Check spam folder
- Review email logs in dashboard

## 3. Registration Flagged as Spam

- Check spam score details
- Review IP address submissions
- Verify email format
- Manual approval available

## 4. User Account Creation Fails

- Check username uniqueness
- Verify UserProfile creation
- Check database constraints

## API Documentation

### Event Registration API

**Endpoint:** POST /api/events/{event\_id}/register/

**Request Body (JSON):**

```
{  
    "nom": "Benali",  
    "prenom": "Ahmed",  
    "email": "ahmed@example.com",  
    "telephone": "+213555123456",  
    "pays": "algerie",  
    "wilaya": "Alger",  
    "secteur": "prive",  
    "etablissement": "University of Algiers",  
    "specialite": "Computer Science",  
    "ateliers_selected": {  
        "2026-03-15": ["session-uuid-1", "session-uuid-2"],  
        "2026-03-16": ["session-uuid-3"]  
    }  
}
```

**Response (Success):**

```
{  
    "success": true,  
    "registration_id": "reg-uuid",  
    "message": "Registration successful"  
}
```

### Response (Error):

```
{  
    "error": "Email already registered",  
    "status": 409  
}
```

## Testing Checklist

### Public Registration

- Access registration page
- See event banner
- Countdown timer displays correctly
- All form fields visible
- Workshop selection works
- Form validation works
- Submit registration successfully
- Receive confirmation email
- See success page

### Dashboard Management

- View registrations list
- Filter by status works
- Search functionality works
- Statistics display correctly
- Approve registration creates user
- Delete registration works
- View detail modal works

### Email System

- Create email template
- Edit template
- Duplicate template
- Send to registrants works
- Target groups filter correctly

- Variables replaced correctly
- Emails delivered successfully

## Anti-Spam

- Multiple submissions from same IP blocked
  - Duplicate emails detected
  - Spam score calculated
  - High score flagged as spam
  - Spam filter shows flagged items
- 

## 🚀 Future Enhancements

### Planned Features

#### 1. Unlayer Pro Features IMPLEMENTED

- ~~WYSIWYG editor (GrapeJS, Unlayer, etc.)~~ DONE
- ~~Drag and drop components~~ DONE
- ~~Save builder state in builder\_config field~~ DONE
- ~~Live preview~~ DONE
- Custom Unlayer project ID configuration
- Premium Unlayer features (if subscribed)

#### 2. Advanced Form Builder

- Add/remove custom fields
- Field reordering
- Conditional logic
- Custom validation rules

#### 3. Registration Analytics

- Registration funnel
- Conversion rates
- Geographic distribution
- Time-based trends

#### 4. Bulk Operations

- Bulk approve registrations
- Bulk email to selected registrants
- Export to Excel/CSV
- Import from CSV

#### 5. Payment Integration

- Paid event registration
- Multiple payment gateways

- Receipt generation
  - Refund management
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## Support

For questions or issues with the registration system:

1. Check this documentation
  2. Review error messages in dashboard
  3. Check email logs
  4. Contact system administrator
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## **Document End**

*This feature set successfully implements all requirements from new\_instructions.md*