

Event Registration & Email Management System

New Features Implementation Guide

Date: 27 January 2026

Version: 1.0

Status: ☒ Implemented and Tested

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](#).

Features Implemented

1. ☒ Public Event Registration System

1.1 Event Registration Form

URL: /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

☒ **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
- `{{etablissement}}` - Institution
- `{{badge_id}}` - Badge ID (for participants)
- `{{qr_code_url}}` - QR code URL (for participants)

3. ☒ Send Emails to Event Registrants

3.1 Email to Registrants

URL: `/dashboard/events/{event_id}/email-templates/{template_id}/send-to-registrants/`

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/`

Target Groups:

- All Event Participants
 - Participants Who Attended
 - Participants Who Did Not Attend
 - Participants Who Paid
 - Participants Who Did Not Pay
 - Custom Selection
-

4. ☒ Registration Management Dashboard

4.1 View Registrations

URL: `/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

- 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
-

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

Dashboard Features:

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

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

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

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

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](#)