Assignment-2: Advanced Features for Event Management System

Objective:

Extend the Event Management System built in **Assignment-1** by implementing user authentication, role-based access control (RBAC), email-based account activation, Django signals, and RSVP functionality.

Requirements & Instructions:

1. Authentication (10 Marks)

- Implement user authentication features:
 - User signup with username, email and password, first name, last name.
 - Login and logout functionality.

2. Role-Based Access Control (RBAC) (30 Marks)

- Define roles for users:
 - Admin: Full access to all features. Only the admin can change roles, create groups, delete groups, and delete participants.
 - Organizer: Can create, update, and delete events and categories
 - Participant: Replace Participant model with User model. Participants can only view events.
- Use **Django Groups** to assign roles to users.
- Restrict access to views based on roles using decorators.

3. RSVP System (25 Marks)

- Participants must be able to RSVP to events they are interested in.
- Store RSVP responses in a ManyToMany relationship between Users and Events.
- Ensure that a user cannot RSVP more than once for the same event.
- Add a confirmation email when a user RSVPs for an event.
- Provide a way for users to view events they have RSVP'd to in their Participant Dashboard.

4. Email Activation (15 Marks)

- Upon signup, send an activation email to the user.
- Include a secure activation link in the email.
- Prevent unactivated users from logging in.
- Use Django's **default_token_generator** for activation.

5. Django Signals & Media Files(15 Marks)

- Automate processes using signals:
 - Send an **email notification** to participants when they RSVP'd an event
 - Send account activation email to registered email
- Add ImageField For Event Model. Must give a default value with a default image

6. Maintain User-Specific Dashboards (5 Marks)

- Redirect users to their respective dashboards after login:
 - o Admin Dashboard: Manage all events, participants, and categories.
 - o Organizer Dashboard: Manage only events and categories.
 - Participant Dashboard: View events they have RSVP'd to.

Grading Breakdown:

Section	Marks
Authentication	10
Role-Based Access Control (RBAC)	30
RSVP System	25
Email Activation	15
Django Signals	15
User-Specific Dashboards	5
Total	100 Marks

Submission Guidelines:

- Branch Create: Create a new git branch named assignment-2 and commit all changes here
- 2. **Code Submission**: Push your Django project to **GitHub** and provide the repository assignment-2 branch link.
 - a. Command to push specific branch git push origin assignment-2
- 3. Live Link: Deploy your project and provide the live link
 - a. Checkout to main branch git checkout main
 - b. Merge to main: git merge assignment-2
 - c. Push to main branch: git push origin main
 - d. Then deploy it using manual deploy on render

Assignment Deadlines:

- If you submit by **February 5, 2025, at 11:59 PM**, your total mark will be **100**.
- If you submit by February 7, 2025, at 11:59 PM, your total mark will be 90.
- If you submit after February 7, 2025, at 11:59 PM, your total mark will be 80.