

EXPERIMENT 3

Aim:

To create a website using web CMS (Node Js/ Angular /React Js/Flask/ Django/ Wordpress/Joomla etc)

Requirements:

Django, Web Browser(Chrome)

Problem Statement:

Olympic management system is an app which targets to provide various sports event organizers a platform to promote their events and also to give the general users/participants information about the sports events in which they're interested

Theory:

1) Content Management System:

A content management system (CMS) is an application that is used to manage web content, allowing multiple contributors to create, edit and publish. Content in a CMS is typically stored in a database and displayed in a presentation layer based on a set of templates. The following are the basic features of a CMS:

- Content creation (allows users to easily create and format content)
- Content storage (stores content in one place, in a consistent fashion)
- Workflow management (assigns privileges and responsibilities based on roles such as authors, editors and admins)
- Publishing (organizes and pushes content live)

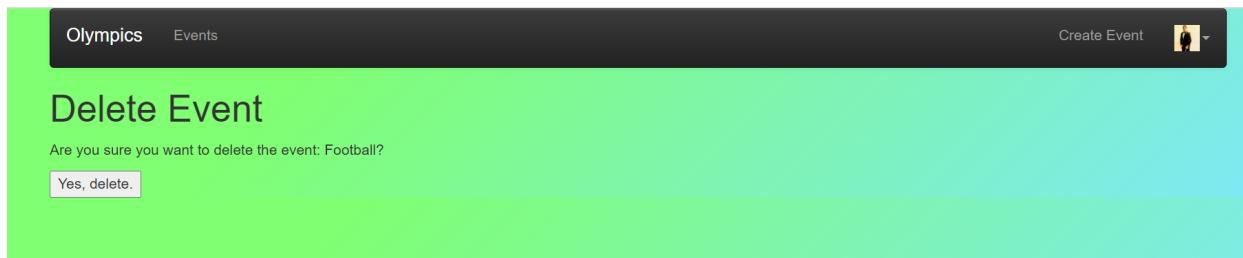
One major advantage of a CMS is its collaborative nature. Multiple users can log on and contribute, schedule or edit content to be published. Because the interface is usually browser-based, a CMS can be accessed from anywhere by any number of users. The second major advantage of a CMS is that it allows non-technical people who don't know programming languages to easily create and manage their own web content. The WYSIWYG editors of a typical content management platform allows users to enter text and upload images without needing to know any HTML or CSS. When a company uses a CMS to publish its pages, it reduces its reliance on front-end engineers to make changes to the website, making it quicker and easier to publish new content.

2) Django:

Django is a Python-based free and open-source web framework that follows the model–template–views (MTV) architectural pattern. It is maintained by the Django Software Foundation (DSF), an independent organization established in the US as a 501(c)(3) non-profit. Django's primary goal is to ease the creation of complex, database-driven websites. The framework emphasizes reusability and "pluggability" of components, less code, low coupling, rapid development, and the principle of don't repeat yourself.[9] Python is used throughout, even for settings, files, and data models. Django also provides an optional administrative create, read, update and delete interface that is generated dynamically through introspection and configured via admin models. Some well-known sites that use Django include Instagram, Mozilla, Disqus, Bitbucket, Nextdoor and Clubhouse. Django as a framework is capable of building a complete CMS, however there are dedicated CMS project which are built upon and extend the Django framework. Below is list of a few of the more popular Django-based CMSs:

- Django CMS
- Wagtail
- Mezzanine

Implementation:



- 1) **Home Page:** The home page is the page that is opened when the user first opens the website.



2) Events: This page contains the various sports events listed on the site.

Olympics Events Create Event

Events

- Football (Edit | Delete) ☆
santagio b
posted by organiser 1 day, 23 hours ago
- Squash 23 (Edit | Delete) ☆
Arena
posted by organiser 1 day, 23 hours ago
- running (Edit | Delete) ☆
bhavan ground
posted by organiser 1 year, 1 month ago
- Men's 100m ☆
Estadio Olímpico Nilton Santos
1 year, 1 month ago
- Badminton Women's Single ☆
Fourth Pavilion
1 year, 1 month ago
- Men's Hockey ☆
Madison Square Garden
1 year, 1 month ago

[Add an Event](#) | [Logout](#)

3) Log in/Sign Up page: These pages are used for logging in the user.

Your username and password didn't match. Please try again.

Please enter a correct username and password. Note that both fields may be case-sensitive.

Username*

Password*

Login

4) Organizer's event page: This page contains a map containing the location of the gym

along with basic contact information.

Olympics Events Create Event 

Football

(1 day, 23 hours ago)  

santagio b
Nov. 26, 2021, 7 p.m.

Athlete List

- Ussain docefcef || India

All events



Comment*

- 5) **Event page:** This page contains information about the event such as the venue and timing.

Olympics Events Create Event 

Events

Men's Hockey 
Madison Square Garden
1 year, 1 month ago

Add an Event | Logout

- 6) **Add event page:** This page is visible only to organizers where they can add their events and the information about them.

Olympics Events Create Event 

Name*

Stadium*

Event at*

File to Upload <= 2.0MB
 No file chosen

Conclusion:

From the above experiment, I have learnt the following:

- Information about CMS
- Working of Django.
- Using Django to create a website for the given problem statement.

References:

1. <https://www.optimizely.com/optimization-glossary/content-management-system/>
2. [https://en.wikipedia.org/wiki/Django_\(web_framework\)](https://en.wikipedia.org/wiki/Django_(web_framework))
3. <https://www.djangoproject.com/>