

# Django managers

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## I. INTRODUCTION

In this research, we will explore the importance of "managers" in Django, a popular Python web development framework. Managers in Django are key components that facilitate interaction with the database and allow developers to perform queries in a more efficient and readable manner. Understanding how managers work and how they can be customized to suit the needs of an application is essential for any Django developer.

## II. DEVELOPMENT

Managers in Django represent an essential part of this Python web development framework. These components provide an effective interface to interact with the database in a more organized and readable way. In this section, we will explore in more detail the importance of managers and how they are used in practice.

In Django, each model comes with a default manager called `objects`. This manager is extremely versatile and offers a number of common methods, such as `filter()`, `get()`, `create()`, `all()`, among others. These methods allow developers to perform standard database operations without the need to write SQL queries directly. For example, the `filter()` method is used to retrieve a set of records that meet certain filter criteria.

However, where managers become really powerful is when they are customized. Developers can create custom managers by defining a manager class within the model and assigning it to a property of the model. This allows the creation of custom methods that are tailored to the specific needs of the application. Custom managers can be useful for more complex queries, special operations and for maintaining cleaner, more structured code.

For example, let's imagine an e-commerce application. We could define a custom manager called `ProductManager` that includes methods such as `get_products_featured()` or `search_products_by_category()`.

This not only makes the code more expressive, but also facilitates the maintenance and scalability of the application.

## III. CONCLUSION

In conclusion, managers in Django are an invaluable tool for developers working on web applications. The ability to customize managers to suit the specific needs of the application is an essential component of maintaining clean and structured code. Managers allow for more efficient database queries and offer a modular approach that simplifies code writing.

## IV. REFERENCES

- [1] What is a «Manager» in Django? (s. f.). Stack Overflow. <https://stackoverflow.com/questions/14689237/what-is-a-manager-in-django>
- [2] Zepeda, E. (2023, 11 octubre). Managers o manejadores personalizados en Django. Coffee bytes. <https://coffeebytes.dev/managers-o-manejadores-personalizados-en-django/>