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Django Learning Report
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Features of Django

1. Rapid Development

Django allows developers to build applications quickly. It provides many built-in tools, so developers do not need to write everything from scratch.

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2. MVT Architecture

Django follows the **Model–View–Template (MVT)** architecture.

- **Model**: Handles database structure and data.

- **View**: Contains the business logic.

- **Template**: Manages the user interface.

This makes the project well-organized and easy to maintain.

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3. Built-in Admin Panel

Django provides an automatic admin interface. Developers can manage users, data, and content without creating a separate admin dashboard.

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4. ORM (Object Relational Mapping)

Django ORM allows interaction with databases using Python code instead of SQL queries, making database operations simple and secure.

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5. High Security

Django includes built-in protection against common security threats like:

- SQL Injection

- Cross-Site Scripting (XSS)

- Cross-Site Request Forgery (CSRF)

This makes Django suitable for secure web applications.

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6. Scalable

Django can handle small to large-scale applications. Many popular websites use Django because it performs well even when traffic increases.

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7. Authentication System

Django provides a ready-made authentication system including login, logout, password management, and user permissions.

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8. URL Routing System

Django uses a clean and flexible URL routing system that connects URLs with views easily.

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9. Template Engine

Django's template engine allows dynamic content generation using simple syntax while keeping HTML and Python code separate.

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10. Database Support

Django supports multiple databases such as:

- SQLite
- MySQL
- PostgreSQL
- Oracle

Developers can switch databases with minimal changes.

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11. Open Source and Community Support

Django is free and open source. It has a large community, so help, tutorials, and libraries are easily available.

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12. Reusable Apps

Django allows creating reusable apps that can be used in multiple projects, saving time and effort.