

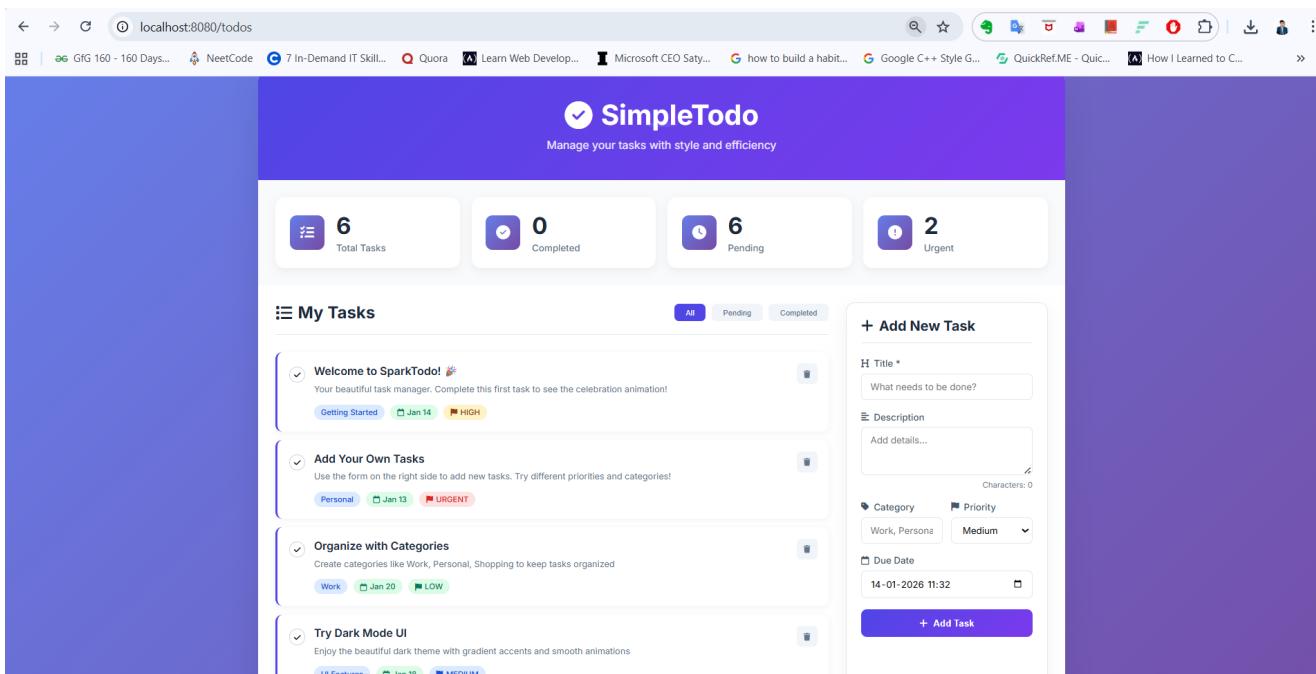
SparkTodo

A minimal and modern Todo management application built with Spring Boot.

The project focuses on clean UI, complete CRUD functionality, and a simple architecture suitable for learning and demonstration purposes.

Screenshots

Dashboard



Todo List and Task Creation

+ Add New Task

H Title *

≡ Description

Characters: 18

Category Priority

Work Medium

Due Date

14-01-2026 11:43

+ Add Task

Date and Time Picker

Category Priority

Work, Persona Medium

Due Date

14-01-2026 11:32

January, 2026 ▾							↑	↓
Su	Mo	Tu	We	Th	Fr	Sa	11	32
28	29	30	31	1	2	3	12	33
4	5	6	7	8	9	10	13	34
11	12	13	14	15	16	17	14	35
18	19	20	21	22	23	24	15	36
25	26	27	28	29	30	31	16	37
1	2	3	4	5	6	7	17	38
Clear Today							18	39

H2 Database Console

localhost:8080/h2-console/login.jsp?jsessionid=f470cd34c4214e9d7c3b8362a6f43769

GfG 160 - 160 Days... NeetCode 7 In-Demand IT Skill... Quora Learn Web Develop... Microsoft CEO S

English Preferences Tools Help

Login

Saved Settings: Generic H2 (Embedded)

Setting Name: Generic H2 (Embedded) Save Remove

Driver Class: org.h2.Driver

JDBC URL: jdbc:h2:mem:tododb

User Name: sa

Password:

Connect Test Connection

localhost:8080/h2-console/login.do?jsessionid=f470cd34c4214e9d7c3b8362a6f43769

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Auto commit Max rows: 1000 Auto complete SQL statement: SELECT * FROM TODOS

SELECT * FROM TODOS;							
COMPLETED	CREATED_AT	DUE_DATE	ID	DESCRIPTION	CATEGORY	TITLE	PRIORITY
FALSE	2026-01-13 17:12:33.113249	2026-01-14 17:12:33.113249	1	Your beautiful task manager. Complete this first task to see the celebration animation!	Getting Started	Welcome to SparkTodo! 🎉	HIGH
TRUE	2026-01-13 17:12:33.150262	2026-01-12 17:12:33.150262	2	Check out the beautiful stats cards and UI elements. Try hovering over them!	Tutorial	Explore the Dashboard	MEDIUM
FALSE	2026-01-13 17:12:33.152104	2026-01-13 20:12:33.152104	3	Use the form on the right side to add new tasks. Try different priorities and categories!	Personal	Add Your Own Tasks	URGENT
FALSE	2026-01-13 17:12:33.15441	2026-01-20 17:12:33.15441	4	Create categories like Work, Personal, Shopping to keep tasks organized	Work	Organize with Categories	LOW
TRUE	2026-01-13 17:12:33.15542	2026-01-15 17:12:33.15542	5	Mark tasks as Low, Medium, High, or Urgent priority to focus on what's important	Tips	Set Priorities	HIGH
FALSE	2026-01-13 17:12:33.156462	2026-01-18 17:12:33.156462	6	Enjoy the beautiful dark theme with gradient accents and smooth animations	UI Features	Try Dark Mode UI	MEDIUM
FALSE	2026-01-13 17:12:33.157423	2026-01-13 18:12:33.157423	7	Click the checkbox to complete tasks and watch the celebration animation!	Fun	Complete Tasks for Confetti! 🎉	URGENT
TRUE	2026-01-13 17:12:33.159616	2026-01-13 17:12:33.159616	8	The app works beautifully on desktop, tablet, and mobile devices	Features	Responsive Design	LOW

(8 rows, 10 ms)

Features

- Create, update, delete, and complete tasks
- Task prioritization (Low, Medium, High, Urgent)
- Category-based task organization
- Due date and time support
- Real-time dashboard statistics
- Responsive layout for multiple screen sizes

- Embedded H2 database with web console
 - Sample data loaded on application startup
-

Tech Stack

Backend

- Java 21
- Spring Boot
- Spring Data JPA
- H2 Database
- Thymeleaf
- Lombok

Frontend

- HTML5
 - CSS3
 - JavaScript
 - Font Awesome
 - Google Fonts (Inter)
-

Project Structure

```
todo-app/
├── src/main/java/com/todo/todoapp/
│   ├── TodoAppApplication.java
│   ├── config/DataInitializer.java
│   ├── controller/TodoController.java
│   ├── entity/Todo.java
│   ├── repository/TodoRepository.java
│   └── service/TodoService.java
├── src/main/resources/
│   ├── static/
│   │   ├── css/style.css
│   │   └── js/script.js
│   ├── templates/index.html
│   └── application.properties
└── README.md
└── pom.xml
└── .gitignore
```

Database Schema

```
CREATE TABLE todos (
    id BIGINT PRIMARY KEY AUTO_INCREMENT,
    title VARCHAR(255) NOT NULL,
    description TEXT,
    completed BOOLEAN DEFAULT FALSE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    due_date TIMESTAMP,
    priority VARCHAR(20),
    category VARCHAR(100)
);
```

Getting Started

Prerequisites

- Java 21 or higher
- Maven 3.6 or higher
- Git

Run the Application

```
git clone <your-repo-url>
cd todo-app
mvn spring-boot:run
```

Application URLs

- Application: <http://localhost:8080/todos>
- H2 Console: <http://localhost:8080/h2-console>

H2 Credentials

```
JDBC URL : jdbc:h2:mem:tododb
Username : sa
Password : (empty)
```

Configuration

```
server.port=8080
```

```
spring.datasource.url=jdbc:h2:mem:tododb
spring.datasource.driver-class-name=org.h2.Driver
spring.h2.console.enabled=true

spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.show-sql=false

spring.thymeleaf.cache=false
```

Sample Data

The application initializes with sample tasks to demonstrate:

- Dashboard statistics
 - Task priorities
 - Categories
 - Completed and pending task states
-

License

MIT License

```
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If you want next (also **pure ` `.md` only**):
- Resume-ready **Project Description**
- GitHub **badges** (minimal, professional)
- Open-source style **CONTRIBUTING.md**
- Production deployment notes (**DEPLOYMENT.md**)
```

Just tell me.