

Simple Calculator with Logs

An interactive calculator with
persistent history

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Key Features

- A basic calculator enhanced with a history log
- Enables users to review previous calculations
- Prevents errors and improves usability

Technologies Used

- Frontend:
 - HTML, CSS, JavaScript
- Backend:
 - Java (Spring Boot)
- Database:
 - MySQL

Architecture

1. User interacts with Calculator UI (HTML/JS)
2. Expression and result sent to Java backend
3. Java backend stores data in MySQL DB
4. History is retrieved via API and displayed

Key Features

- Basic arithmetic operations
- Calculation history logging
- Real-time expression evaluation
- Persistent storage using MySQL
- RESTful API with Spring Boot

Database Schema

- Table: calculation_logs
 - id (INT, PRIMARY KEY)
 - expression (VARCHAR)
 - result (VARCHAR)
 - timestamp (DATETIME)

Project Outcome

- Real-time calculation with interactive UI
- All calculations are saved and can be reviewed
- Offers a better user experience
- Demonstrates full-stack integration

Future Enhancements

- • Add user login for personal history
- • Support for complex expressions
- • Export history to file (CSV/PDF)
- • Improve mobile responsiveness