GoTop

Brief/Abstract

Meeting the brief involves designing a **multi-RDBMS monitoring tool** for MySQL, … . This tool should be designed in **GoLang**, and should be modelled against the now outdated **_Innotop_**, which was built in Perl and has an open-source license allowing modification and private use. Ideally, the brief should be met in the space of **three months**, starting 07/06/23 EU time format (dd/mm/yy).

key terms:
DBMS *stands for* **D**ata**b**ase **M**anagement **S**ystem.
MySQL *is a* **S**tructured **Q**uery **L**anguage DBMS.
A **query** *is a request for data or information in a database.*

Research

Innotop provides many features on top of **realtime monitoring**. It can support multiple **database instances** and can perform **query analysis**. A lot of these features will carryover to GoTop. Here's Innotop's pros and cons tabulated:

Innotop Pros & Cons

▇ Pros	▇ Cons
Realtime monitoring	Limited to MySQL & MariaDB
Can manage multiple database instances	Built in Perl
Perform query analysis	Outdated
Supports plugins	Poorly deployed
Allows alerts and notifications	Slightly poor UI

The first con is an important fix. GoTop will be able to interpret **many DBMSs**:

DBMS Compatibility

Aa App	☑ MySQL	☑ MariaDB	☑ Others...
Innotop	✓	✓	☐
GoTop	✓	☐	✓

Design

Testing

Deployment