

Advanced Database Systems Project

Team

We have tested our application on our local machine.

Please do let us know if it runs into any problems on your machine.

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Intro

This is our implementation of Project Possibility 1 - RepCRec.

We created the application using `python3`.

We followed the instructions in `project section` in course syllabus.

And we have included our design document `Design-Document-yz3940_tg1539.pdf`.

Run Application

make sure to use `python 3`

- To run the application directly.

```
python start_console.py
```

- To run with a pre-load script.

```
python start_console.py -f <file_path>
```

Commands

Here is a list of supported commands and DB operations in the application.

```
# Supported commands:  
help # print all the commands  
load <filename> # load and process a file
```

```
exit # quit the console

# Supported DB operations:
begin(T1) # begin of a normal transaction
beginRO(T3) # begin of a read-only transaction
R(T1, x4) # T1 wants to read x4
W(T1, x6,v) # T1 wants to write v to x6
dump() # get all variables from all sites
dump(i) # get all variables at site i
dump(xj) # get variable xj at all sites
end(T1) # end a transaction T1
fail(1) # fail site 1
recover(1) # recover site 1
```

Scripts

You can write your DB command scripts and load it into our app.

Script should only contains all the DB commands or comments which starts with `//` or `===` .

Work distributions

- Design - Yi Zhang & Taikun Guo
- Design Document - Yi Zhang
- Transaction module - Yi Zhang
- Database module - Taikun Guo
- Console module - Taikun Guo
- Testing - Taikun Guo & Yi Zhang