Final Documentation

for

Data clustering and stastical modelling of CSV datasets

Version 1.0

Prepared by

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Contents

1 Introduction

This software siDBa, aims create a mongoDB from a csv file and also provide stastical insights to the user. siDBa is open source and modular to allow experienced user to utilize it for various database related purposes. A csv file is a text version of an excel sheet where each column is sepereatd by a " , ", henve the name csv (comma seperated values). The general problem faced with this file type is that all the values are converted to string and then stored in the text based file with the .csv extension.
siDBa aims to allow the user to import a csv dataset into a mongoDB without having to check and convert all the datatypes of each and every entry manually. The mongoDB can be local or hosted depending on the preference of the user. This also means that a good statistical model can be prepared for the user to have a better understanding of the dataset as now he/she does not have to manually run through the dataset.
The following sections contain each of the modules and working of the software in greater detail, hence explaining the wireframe models and the data flow through the project.

1.1 Document Purpose

siDBa Version 1.0 is the first version of the software and implements all the core concepts of the software. This includes the core module to convert csv to mongoDB. It also provides a report on the data to help the user have a better understanding of the imported dataset. This document will provide particulars about the software functionalities and the requirements to create and utilize the software. It also specifies design of the individual modules and the User Interface.

1.2 Product Scope

siDBa 1.0 is aimed at all csv dataset users. This applies to large fraction of developers, data scientists and students as csv is the most common file type to share datasets over the internet. It is due to the simple text file type of the dataset making it completely harmless and easy to convert back to an excel format. The simple interface is designed to allow even inexperienced user to have a great experience in converting their dataset.
One of the largest benifits about siDBa is that the new db can be local or hosted on various services such as mlab etc. This means that once a dataset is converted it can be shared easily with the entire team without the extra hastle of each member creating their own database and manually importing it over and over again.

1.3 Intended Audience and Document Overview

This document is directed mainly toward developers who are looking to get a better understanding about behind the scenes working of the software for various purposes such as to make this an embeded part of some other software of modify the file types during converison for user specific tasks. As the interface is simple and aimed to make the experience hastle free there is absolutely no need for general clients to have a look at the documentation.
For the developers the best practice is to skip forward to the module definitons and the dataflow diagram only after going through the section 1.4 to have a better understanding of the content.

1.4 System Overview

siDBa 1.0 is aimed at all csv dataset users. This applies to large fraction of developers, data scientists and students as csv is the most common file type to share datasets over the internet. It is due to the simple text file type of the dataset making it completely harmless and easy to convert back to an excel format. The simple interface is designed to allow even inexperienced user to have a great experience in converting their dataset.
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1.5 Design Map

For the developers the best practice is to skip forward to the module definitons and the dataflow diagram only after going through the section 1.4 to have a better understanding of the content. This is to allow a better understanding of the data flow through the modules and the the overall presentation of the software.

1.6 Definitions, Acronyms and Abbreviations

Abbreviations

csv – comma seperated values
DB/db – database

Definitons

csv - In computing, a comma-separated values (CSV) file stores tabular data (numbers and text) in plain text. Each line of the file is a data record. Each record consists of one or more fields, separated by commas.
MongoDB - MongoDB (from humongous) is a free and open-source cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schemas.

1.7 Document Conventions

This document follows the IEEE standard with the following formatting requirements

Font

Arial font size 12 for all the content
Bold heading and sub heading

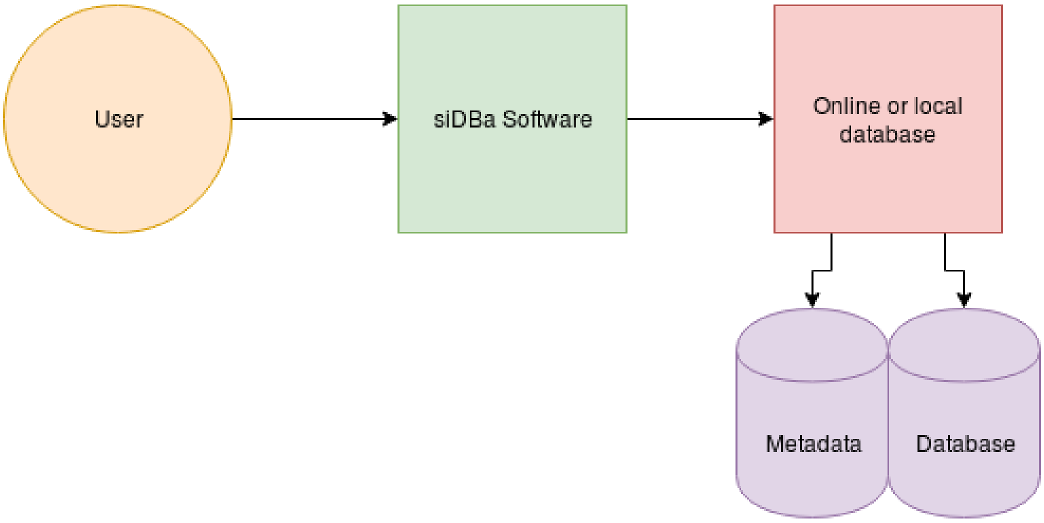
Others

Added hyperlinks for digital references and extra information about various topics.

2 Overall Description

2.1 Product Perspective

The software is a first of its kind and the idea is to make it easier for any user to deal with the hastle of data wrangling and database creation. This document defines the entire system with all its modules for version 1.0 for siDBa. The software works with a mongo instance and can be integrated with any other form of databases also. It can work with both local mongoDB's as well as any of the online mongoDB service providers. The integration with mongoDB can be better understood with the help of the followion illustration.

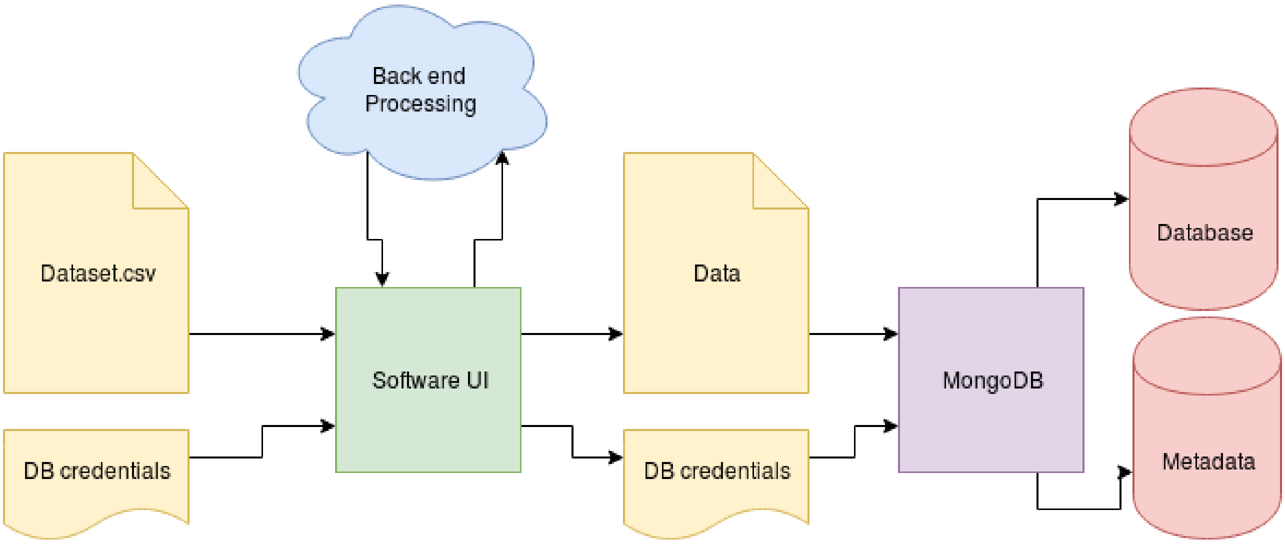


2.2 Product Functionality

Functionality can be broken down into the following modules

- User input
  Includes all the user input data such as the csv file, mongoDB instance link, databese name and the collection details.
- Import module
  It reads the data from the csv and also checks for data consistency and readability issuses.
- Data wrangling
  This makes sure that the imported data in text fromat is correctly converted to its appropriate fromat that may include integer, float, date etc.
- Database connection
  This create the connection to the database whic may be local or hosted online. Also it handles any connection errors or other exceptions.
- Stastical analysis

Provides a statistical report on the database wihich allows the user to have a better understanding of the data.



2.3 Users and Characteristics

siDBa is a very simple to use software and this allows all users to have a very fast and hastle free experience. Due to this it is easy to classify the users into mainly two categories.
These categories include

- Casual users
  All the users that integrate this software into the database creation and statistical report point of view and use the software as a stand alone.
- Developers
  As the software is open source, it is free for anyone to use it in their own way. This may include intergation with other third party softwares, automation for web and online services and improving and adding new features to the existing software.

The casual users make up the largest part of all users and is also the most important section as they directly experience the software as it is. This means that the software must be easy to use and simple to understand.

2.4 Operating Environment

The software is very simple and does not require and special software or hardware requirements. A stable internet connection is a must when dealing with online data bases and poor RAM and processing power can lead to longer execution times when dealing with large datasets. Incase of dealing with local mongoDB’s it is a must to have the local instance updated and running at all times.

Recomended hardware specifications

- Processor - 4 (Quad) Core Intel i3 or better
- Memory – 2GB RAM or better

2.5 Design and Implementation Constraints

Constraints include

- Basic internet facalities
- Simple hardware constraints
- Proper input csv data set
- Correct online database credentials
- Security constraints

2.6 User Documentation

The software is aimed at all users and to allow this, it has a very simple and easy to understand user interface. Even though the software allows a haslte free experience, delaing with database setup and credential can be a problem. To help with this, users will be directed to the mongoDB official website documentation through the software's "Help" section. It will also contain the basic instructions required to to test the software and a sample video and data set to test the software is provided on the website.

2.7 Assumptions and Dependencies

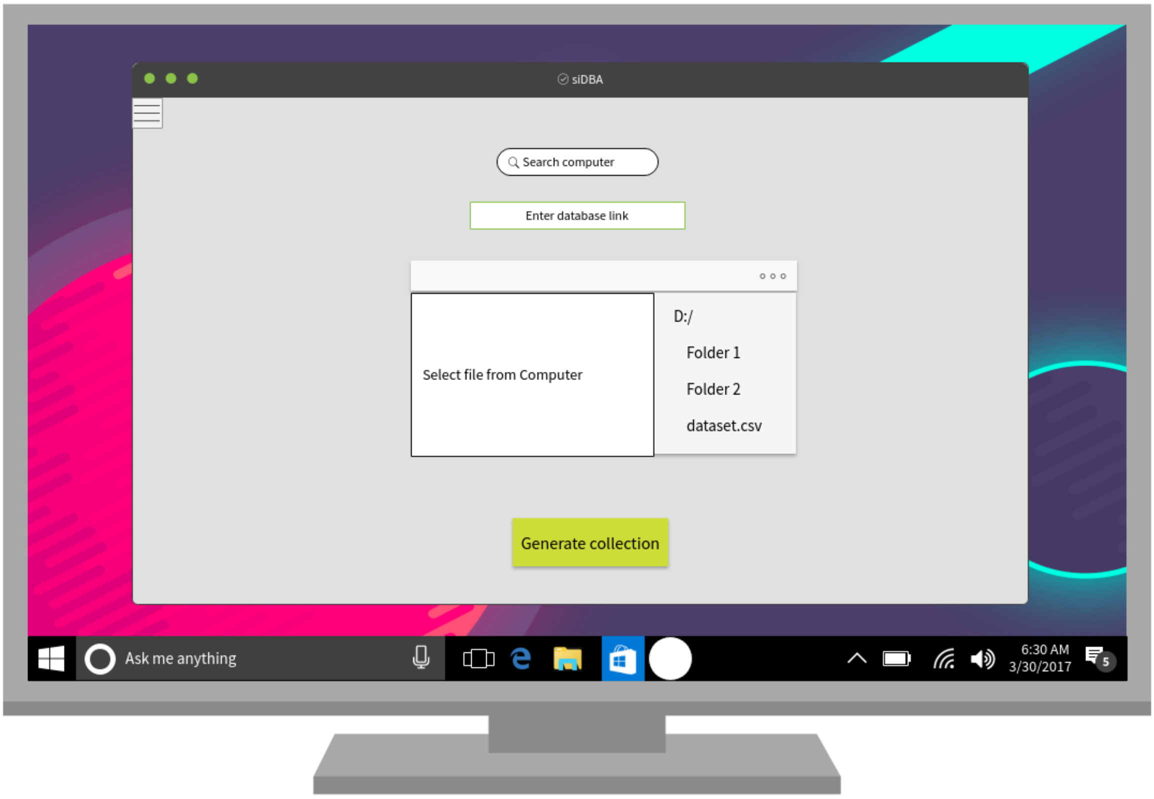
- User has basic knowledge of computers.
- The system is fast enough to deal with large data sets.
- Internet connection is available to all the users who use this subsystem.
- The user is assumed to give system correct information about his details such as the database credentials.
- The system will have simple and easy to use interfaces.
- All the necessary information is present in the input csv file.
- Provides accurate data.

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

siDBa contains only two user interfaces. These include the interface to generate the collection in the database and one to have a look at the statisticla model of the generated data base.
The database generation interface is very simple to use. The user only has to select the file from the computer or enter a file url. Next he/she has to mention the mongoDB url with the proper credentianls and hit the “Generate collection” button. This will work its magic on the csv file and convert it to a mongoDB collection in the user specified database. The mock user interface can be seen in the illustration below.



3.1.2 Hardware Interfaces

Libraries include

- pymongo
  Creates a web socket to link the server with the local or online hosted database.
- Pandas

For advanced data modelling functionalities like creating data frames etc.

- Numpy
  Numerical python that utilizes the power of C for a quicker and more optimized mathematical soution.

3.1.3 Software Interfaces

siDBa can run on both Linux as well as Windows systems. It only requires python and the pymongo library as mentioned in the above specifications. Incase it is hosted as web service, this is not required as the file is uploaded to the server the handles all the back end processing. But this method is not feasable incase the file has very large size making it very difficult to upload it to the server.

3.1.4 Communications Interfaces

The communication interface is handled by the pymongo library used in Python. It take care of securing all the connections to the database in case it a local database or hosted online by a service provider.
Incase the software is hosted online as a web page, it will also have a secure https connection with each and every user as the data flowing through the connection need to be secure and its integrity must be preserved. The library also takes care of setting up the web socket that allows for an uninterrupted connection to the database.

3.2 Functional Requirements

Functionality can be broken down into the following modules

- User input
  Includes all the user input data such as the csv file, mongoDB instance link, databese name and the collection details.
- Import module
  It reads the data from the csv and also checks for data consistency and readability issuses.
- Data wrangling
  This makes sure that the imported data in text fromat is correctly converted to its appropriate fromat that may include integer, float, date etc.
- Database connection
  This create the connection to the database whic may be local or hosted online. Also it handles any connection errors or other exceptions.
- Stastical analysis
  Provides a statistical report on the database wihich allows the user to have a better understanding of the data.

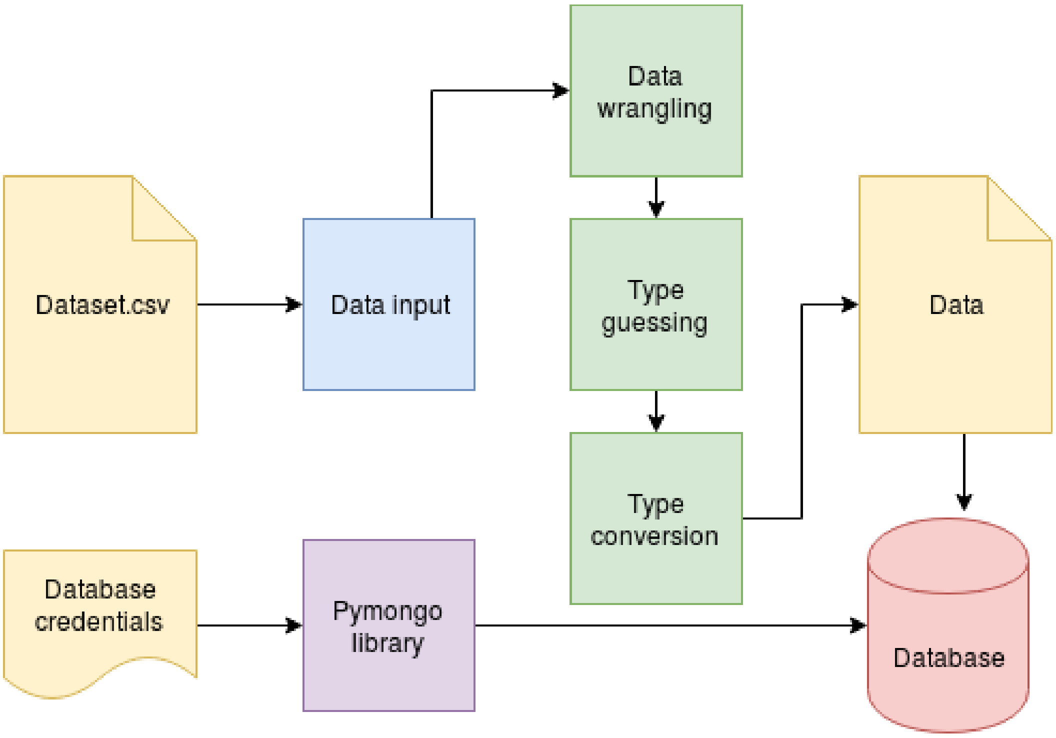
3.3 Behaviour Requirements

3.3.1 Use Case View

Actors include

- User – Person that interacts with the software

- Server – Does the data crunching and modelling. It may be hosted online or a local program depending upon the user preference
- Database – Local database or an online instance depending upon the user preference



4 Other Non-functional Requirements

4.1 Performance Requirements

Performance requirements

- Upload file size must not be greater than 50MB
- File uploaded must be a of csv format
- Proper database credentials
- Time taken to complete the task depends upon the size of the input file
- File data must be correct

4.2 Safety and Security Requirements

Requirements include

- The database credentials are only used once and not stored for any other purpose. Hence each time the user must mention the database link.
- Incase of large files, the user can run the software on a local system. This allows high performance and also prevents the database from corruption due to timeouts.
- Incase of a local instance, do not store the credentials for reuse as this may lead to issues during updates and can lead to bugs in the software.

4.3 Software Quality Attributes

Software quality is maintained by

- Creating a timeout hence maximizing the server performance. This allows a larger number of users to utilize the software at the sametime.
- The software is completely open source and users can run it on a local server to compute large data sets and highly time consuming tasks.
- Regular maintainance and updates for bugs
- Also issues can be opened on the github repo. and this allows the community to interact and understand the software and its functioning.

5 Design Considerations

5.1 Assumptions

- User has basic knowledge of computers.
- The system is fast enough to deal with large data sets.
- Internet connection is available to all the users who use this subsystem.
- The user is assumed to give system correct information about his details such as the database credentials.
- The system will have simple and easy to use interfaces.
- All the necessary information is present in the input csv file.
- Provides accurate data.

5.2 Constraints

Constraints include

- Basic internet facalities
- Simple hardware constraints
- Proper input csv data set
- Correct online database credentials
- Security constraints

5.3 System Environment

Recomended hardware specifications

- Processor - 4 (Quad) Core Intel i3 or better
- Memory – 2GB RAM or better
- Free space – 10MB

Required softwares

- Python 2 or higher
- MongoDB server in case of hosting a local server
- MongoDB Compass

5.4 Design Methodology

The overall design can be broken down into the following modules

- User input

Includes all the user input data such as the csv file, mongoDB instance link, databese name and the collection details.

- Import module

  It reads the data from the csv and also checks for data consistency and readability issuses.
- Data wrangling

  This makes sure that the imported data in text fromat is correctly converted to its appropriate fromat that may include integer, float, date etc.
- Database connection

  This create the connection to the database whic may be local or hosted online. Also it handles any connection errors or other exceptions.
- Stastical analysis

  Provides a statistical report on the database wihich allows the user to have a better understanding of the data.

5.5 Risks and Volatile Areas

The only possible risk is of compromise of the database credentials. This is possible as the user must provide his/her mongoDB url to connect to an online Mongo service. SiDBa doesnot store these credentials and they are destroyed as soon as the connection to the online Mongo service is established. This means that the software is completely safe.

The user must make sure to check this if siDBa is integrated in some third party software as its an open-source application and the source code can be tampered with by the third party.

Incase of using third party applications the best way is to create a collection in your local mongoDB instance. This means that the url doesnot require the user name and the password keeping the user safe from any compromise.

6 Architecture

6.1 Overview

siDBa contains only two user interfaces. These include the interface to generate the collection in the database and one to have a look at the statisticla model of the generated data base.
The database generation interface is very simple to use. The user only has to select the file from the computer or enter a file url. Next he/she has to mention the mongoDB url with the proper credentianls and hit the “Create” button. This will work its magic on the csv file and convert it to a mongoDB collection in the user specified database.

6.2 Subsystem, Component, or Module 1..N

The software can be broken down into the following categories

- User input
  Includes all the user input data such as the csv file, mongoDB instance link, databese name and the collection details.
- Import module
  It reads the data from the csv and also checks for data consistency and readability issuses.
- Data wrangling
  This makes sure that the imported data in text fromat is correctly converted to its appropriate fromat that may include integer, float, date etc.
- Database connection
  This create the connection to the database whic may be local or hosted online. Also it handles any connection errors or other exceptions.
- Stastical analysis
  Provides a statistical report on the database wihich allows the user to have a better understanding of the data.

6.3 Strategy

siDBa can run on both Linux as well as Windows systems. It only requires python and the pymongo library as mentioned in the above specifications. Incase it is hosted as web service, this is not required as the file is uploaded to the server the handles all the back end processing. But this method is not feasable incase the file has very large size making it very difficult to upload it to the server.

7 Database Schema

7.1 Tables, Fields and Relationships

MongoDB is a non relational database design. This means that each entry in the database is treated as an individual object. Hence it is possible to have a number of different entries in each object of the same table. Also it can store other objects as its entries. This means that a single entry can contain more that one entry depending upon the type of data in the CSV file.

7.2 Data Migration

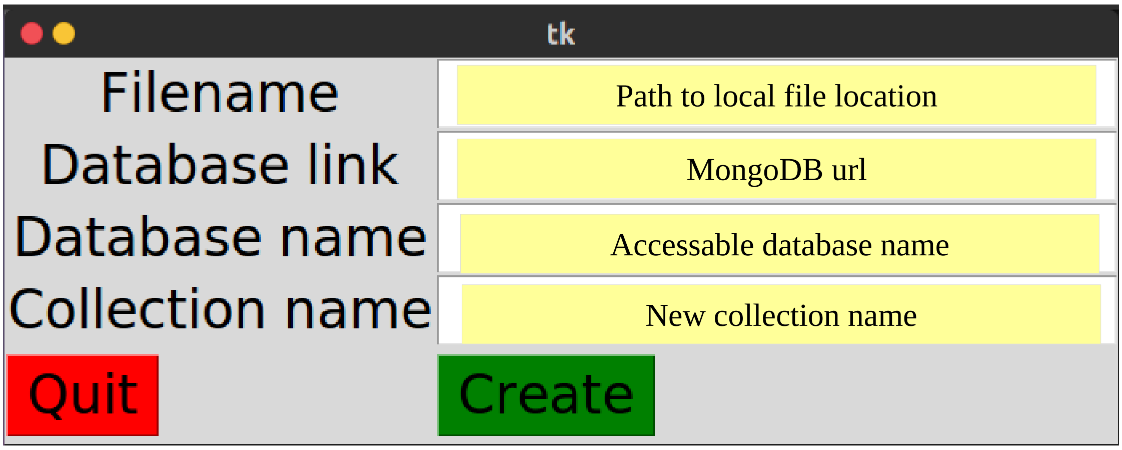
The communication interface is handled by the pymongo library used in Python. It take care of securing all the connections to the database in case it a local database or hosted online by a service provider.
Incase the software is hosted online as a web page, it will also have a secure https connection with each and every user as the data flowing through the connection need to be secure and its integrity must be preserved. The library also takes care of setting up the web socket that allows for an uninterrupted connection to the database.

Requirements include

- The database credentials are only used once and not stored for any other purpose. Hence each time the user must mention the database link.
- Incase of large files, the user can run the software on a local system. This allows high performance and also prevents the database from corruption due to timeouts.
- Incase of a local instance, do not store the credentials for reuse as this may lead to issues during updates and can lead to bugs in the software.

8 High Level Design

8.1 View / Model element



Filename	Path to local file location
Database link	MongoDB url
Database name	Accessable database name
Collection name	New collection name

Fig : Form layout

9 Low Level Design

9.1 Module 1..N

Module	Functionality
User input	Includes all the user input data such as the csv file, mongoDB instance link, databese name and the collection details.
Import module	It reads the data from the csv and also checks for data consistency and readability issuses.
Data wrangling	This makes sure that the imported data in text fromat is correctly converted to its appropriate fromat that may include integer, float, date etc.
Database connection	This create the connection to the database whic may be local or hosted online. Also it handles any connection errors or other exceptions.
Stastical analysis	Provides a statistical report on the database wihich allows the user to have a better understanding of the data.

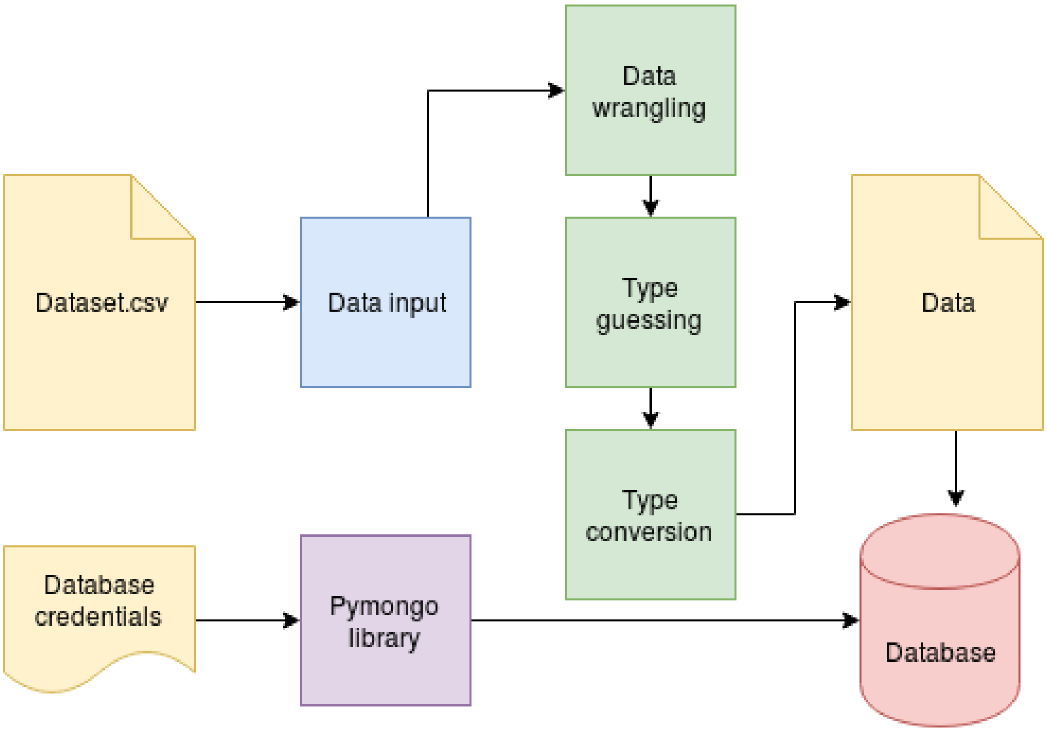


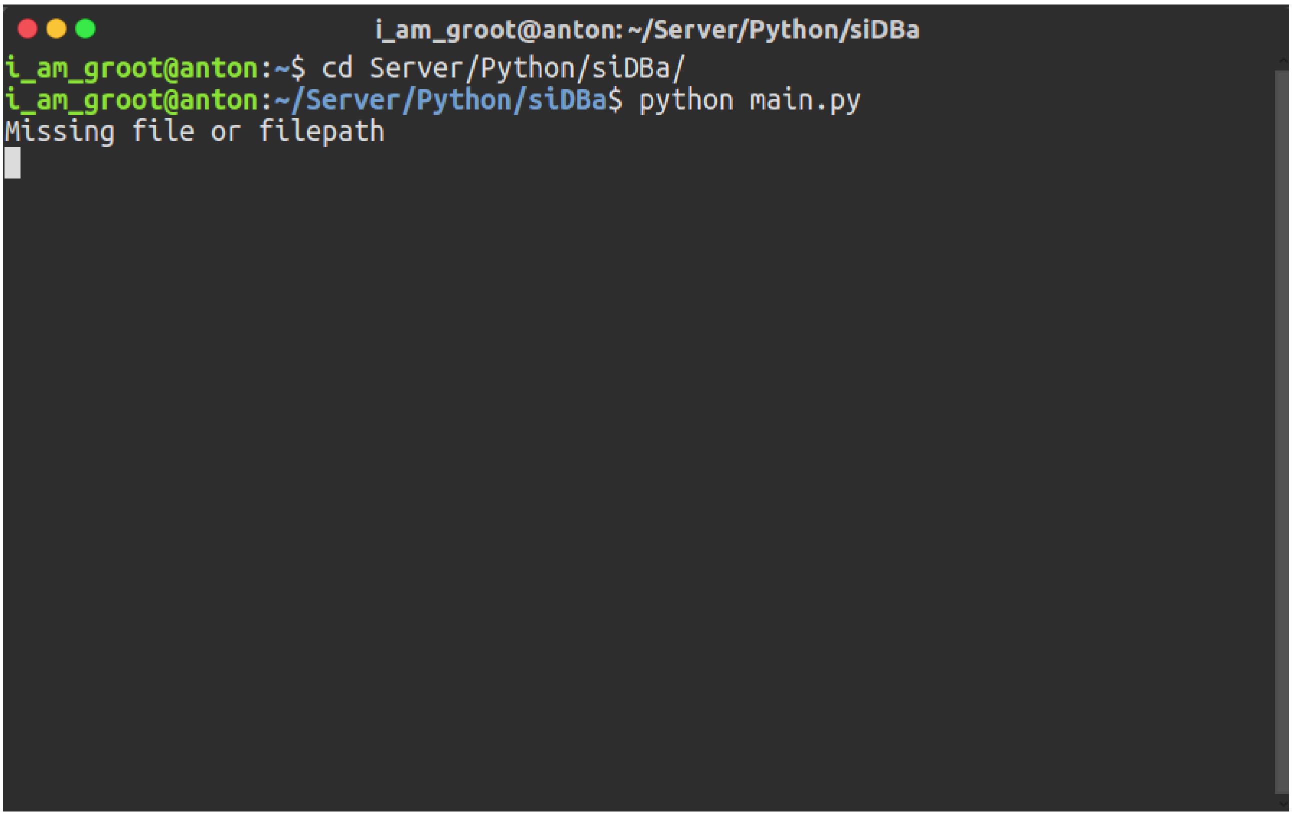
Fig : Module interactions

10 User Interface Design

10.1 Application controls

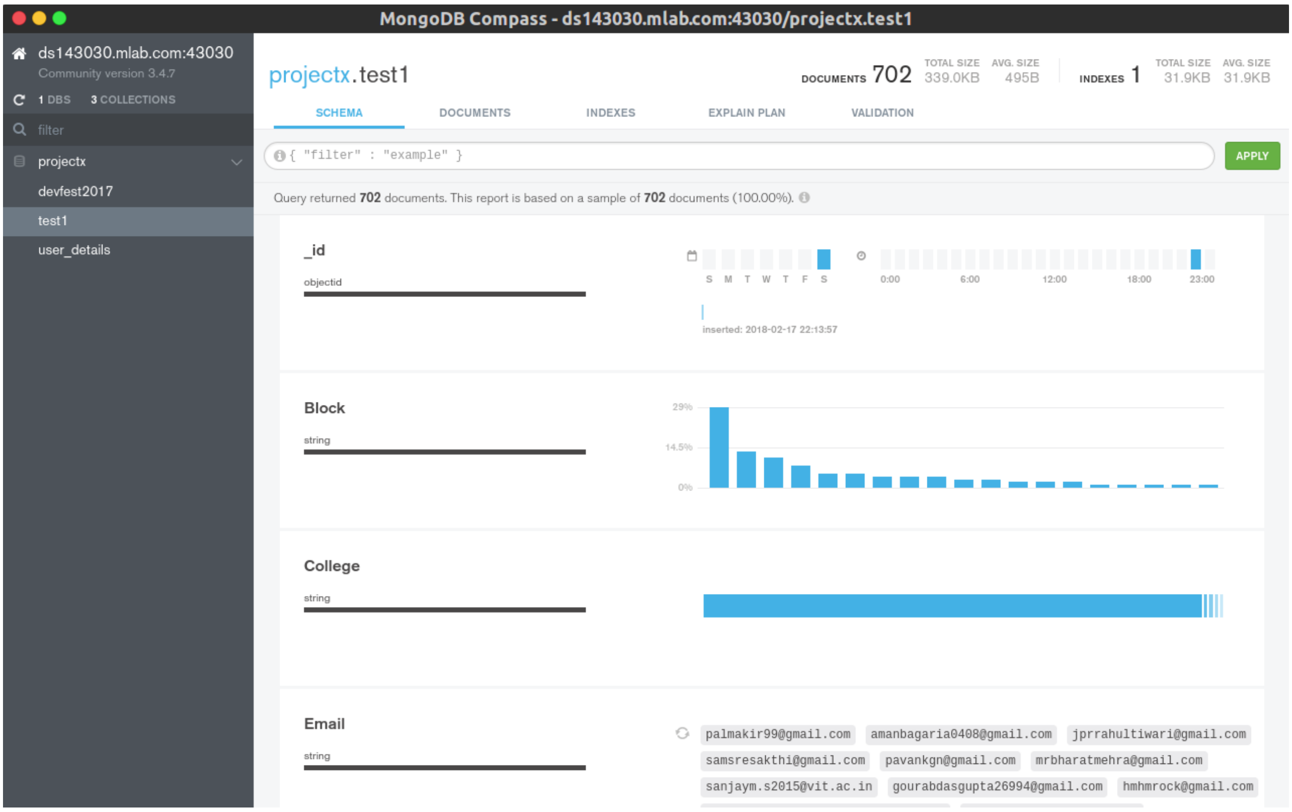
Button	Functionality
Create	Create the required collection in the user specified MongoDB and inserts all the CSV entries into it.
Quit	Saves all the settings and quits the application.

10.2 Screen 1..N



```
i_am_groot@anton:~$ cd Server/Python/siDBa/
i_am_groot@anton:~/Server/Python/siDBa$ python main.py
Missing file or filepath
```

Fig : Admin terminal



{ "filter" : "example" }

Query returned 702 documents. This report is based on a sample of 702 documents (100.00%).

inserted: 2018-02-17 22:13:57

palmakir99@gmail.com amanbagaria0408@gmail.com jprrahultiwari@gmail.com
samsresakthi@gmail.com pavankgn@gmail.com mrbharatmehra@gmail.com
sanjaym.s2015@vit.ac.in gourabdasgupta26994@gmail.com hmhmrock@gmail.com

Fig : MongoDB Compass

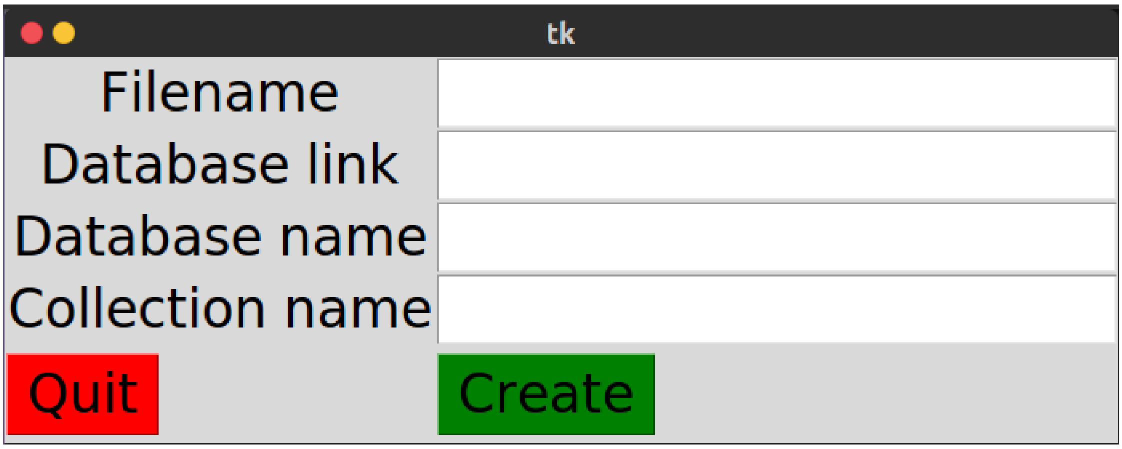


Fig : Software interface

APPENDIX A – Data Dictionary

Variable	Values
db_link	Database link with embedded credentials
File path	Path to local file (OR) url to online file File must be csv format
Return	Return values 200 – for completed request 400 – for input error 500 – for internal server error

APPENDIX B – Modules and Libraries

main.py

Creates a the basic User interface a is the main link to all the modules.

Libraries used -
Tkinter to create the UI.

```
from read_csv import read_csv
from database_connection import update_database
from Tkinter import *

def create_collection():

    filename = blank1.get()
    db_link = blank2.get()
    database_name = blank3.get()
    collection_name = blank4.get()

    file_data = read_csv(filename)
    if file_data["code"] == 400:
        print file_data["msg"]
    else:
        file_data = file_data["data"]
        # print file_data[:2]
        msg = update_database(db_link, database_name, collection_name, file_data)
        if msg["code"] == 400:
            print msg["msg"]
        else:
            print "Done", msg["msg"]
            blank1.delete(0, 'end')
            blank2.delete(0, 'end')
            blank3.delete(0, 'end')
            blank4.delete(0, 'end')

if __name__ == "__main__":
    # filename = raw_input('Enter filename (with path): ').strip()
    # db_link = raw_input('Enter database link : ').strip()
    # database_name = raw_input('Enter database name : ').strip()
    # collection_name = raw_input('Enter collection name : ').strip()
    # mongodb://gdgvit:gdgvit@ds133557.mlab.com:33557/subconn
    main = Tk()
    main.resizable(0, 0)
    fnt = (None, 20)
    Label(main, text="Filename", font=fnt).grid(row=0)
    Label(main, text="Database link", font=fnt).grid(row=1)
    Label(main, text="Database name", font=fnt).grid(row=2)
    Label(main, text="Collection name", font=fnt).grid(row=3)
    blank1 = Entry(main, font=fnt)
    blank1.grid(row=0, column=1)
    blank2 = Entry(main, font=fnt)
    blank2.grid(row=1, column=1)
    blank3 = Entry(main, font=fnt)
    blank3.grid(row=2, column=1)
    blank4 = Entry(main, font=fnt)
    blank4.grid(row=3, column=1)
    Button(main, text='Quit', bg='red', font=fnt, command=main.destroy).\
    grid(row=4, column=0, sticky=W, pady=4)
    Button(main, text='Create',bg='green', font=fnt, command=create_collection).\
    grid(row=4, column=1, sticky=W, pady=4)
    mainloop()
```

read_csv.py

Libraries used -
unicodecsv to read data from the csv file.

```
# Read CSV
from unicodecsv import DictReader

def read_csv(filename):
    try:
        with open(filename, 'rb') as f:
            reader = DictReader(f)
            csv_data = list(reader)
        return {"code": 200, "data": csv_data}
    except:
        return {"code": 400, "msg": "Missing file or filepath"}
```

database_connection.py

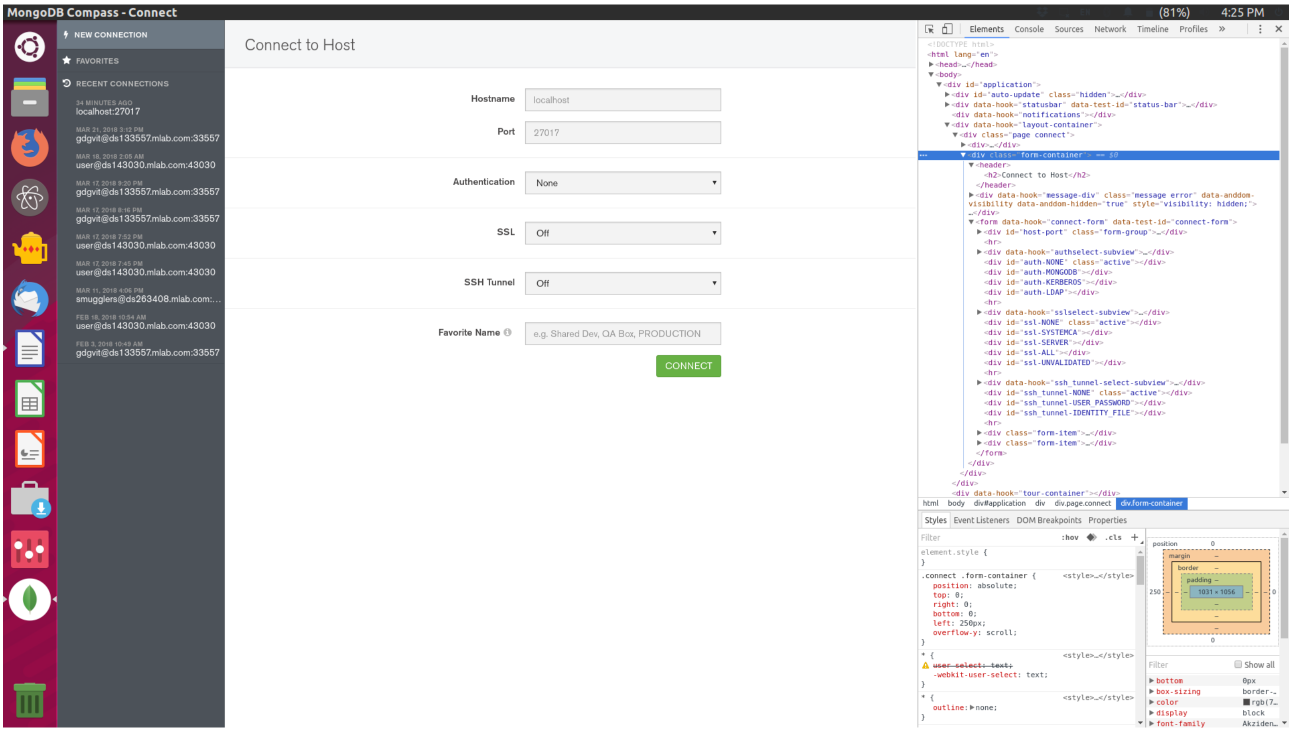
Libraries used -
pymongo to connect and execute read/write operations on the mongoDB.

```
#MongoDB connection
from pymongo import MongoClient

def update_database(dblink, database_name, collection_name, data):
    print dblink
    try:
        client = MongoClient(dblink)
        db = client[database_name]
        eval("db." + str(collection_name) + ".insert_many(data)")
        return {"code": 200, "msg": "Collection added to database"}
    except:
        return {"code": 400, "msg": "Connection cannot be estb."}
```

Electron js Web Application

Login page



34 MINUTES AGO
localhost:27017
MAR 21, 2018 3:12 PM
gdgvit@ds133557.mlab.com:33557
MAR 18, 2018 2:05 AM
user@ds143030.mlab.com:43030
MAR 17, 2018 9:20 PM
gdgvit@ds133557.mlab.com:33557
MAR 17, 2018 8:16 PM
gdgvit@ds133557.mlab.com:33557
MAR 17, 2018 7:52 PM
user@ds143030.mlab.com:43030
MAR 17, 2018 7:45 PM
user@ds143030.mlab.com:43030
MAR 11, 2018 4:06 PM
smugglers@ds263408.mlab.com:…
FEB 18, 2018 10:54 AM
user@ds143030.mlab.com:43030
FEB 3, 2018 10:49 AM
gdgvit@ds133557.mlab.com:33557

Connect to Host

Hostname: localhost
Port: 27017
Authentication: None
SSL: Off
SSH Tunnel: Off
Favorite Name: e.g. Shared Dev, QA Box, PRODUCTION

```
<!DOCTYPE html>
<html lang="en">
▶<head>…</head>
▼<body>
  ▼<div id="application">
    ▶<div id="auto-update" class="hidden">…</div>
    ▶<div data-hook="statusbar" data-test-id="status-bar">…</div>
     <div data-hook="notifications"></div>
    ▼<div data-hook="layout-container">
      ▼<div class="page connect">
        ▶<div>…</div>
        ▼<div class="form-container"> == $0
          ▼<header>
             <h2>Connect to Host</h2>
           </header>
          ▶<div data-hook="message-div" class="message error" data-anddom-
          visibility data-anddom-hidden="true" style="visibility: hidden;">
          …</div>
          ▼<form data-hook="connect-form" data-test-id="connect-form">
            ▶<div id="host-port" class="form-group">…</div>
             <hr>
            ▶<div data-hook="authselect-subview">…</div>
             <div id="auth-NONE" class="active"></div>
             <div id="auth-MONGODB"></div>
             <div id="auth-KERBEROS"></div>
             <div id="auth-LDAP"></div>
             <hr>
            ▶<div data-hook="sslselect-subview">…</div>
             <div id="ssl-NONE" class="active"></div>
             <div id="ssl-SYSTEMCA"></div>
             <div id="ssl-SERVER"></div>
             <div id="ssl-ALL"></div>
             <div id="ssl-UNVALIDATED"></div>
             <hr>
            ▶<div data-hook="ssh_tunnel-select-subview">…</div>
             <div id="ssh_tunnel-NONE" class="active"></div>
             <div id="ssh_tunnel-USER_PASSWORD"></div>
             <div id="ssh_tunnel-IDENTITY_FILE"></div>
             <hr>
            ▶<div class="form-item">…</div>
            ▶<div class="form-item">…</div>
           </form>
         </div>
       </div>
     </div>
     <div data-hook="tour-container"></div>
```

```
element.style {
}
.connect .form-container {          <style>…</style>
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 250px;
  overflow-y: scroll;
}
* {                                 <style>…</style>
⚠ ~~user-select: text;~~
  -webkit-user-select: text;
}
* {                                 <style>…</style>
  outline: ▶none;
}
```

```
▶ bottom         0px
▶ box-sizing     border-…
▶ color          ■rgb(7…
▶ display        block
▶ font-family    Akziden…
```

```
<body>
    <div id="application">
        <div id="auto-update" class="hidden">
            <div class="btn-group pull-right"><a data-hook="cancel" href="#" class="btn btn-primary">Not now</a><a data-hook="confirm" href="#" class="btn btn-primary">Yes please</a></div>
            <p>A newer version of Compass is now available! Would you like to install it and restart Compass?</p>
        </div>
        <div data-hook="statusbar" data-test-id="status-bar">
            <div data-reactroot="" id="statusbar" class="hidden">
                <div class="progress" style="display: none; height: 4px;">
                    <div class="progress-bar progress-bar-striped active" style="width: 0%;"></div>
                </div>
                <div class="sidebar" style="display: none;"></div>
                <ul class="message-background with-sidebar centered">
                    <li>
                        <p class="message" style="visibility: hidden;"></p>
                        <div class="spinner" style="visibility: hidden;">
                            <div class="rect1"></div>
                            <div class="rect2"></div>
                            <div class="rect3"></div>
                            <div class="rect4"></div>
                            <div class="rect5"></div>
                        </div>
                        <div class="subview"></div>
```

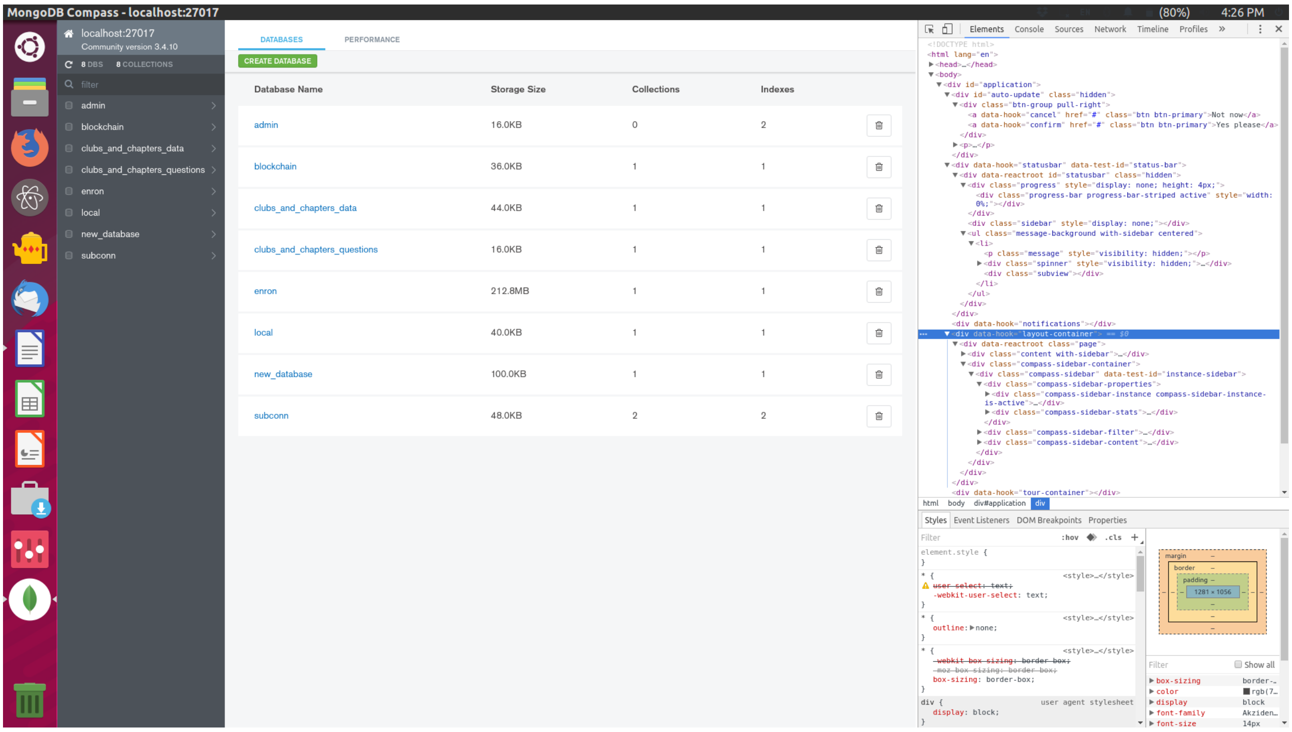
```
          </li>
        </ul>
      </div>
    </div>
    <div data-hook="notifications"></div>
    <div data-hook="layout-container">
      <div class="page connect">
        <div>
          <div class="sidebar panel">
            <div data-hook="widget-container" class="widget-container">
              <ul class="list-group root">
                <li data-hook="activatable" class="list-group-item-heading active"><a data-
hook="new-connection"><i class="icon fa fa-fw fa-bolt"></i><span>New
Connection</span></a></li>
              </ul>
            </div>
            <div data-hook="filter-subview"></div>
            <div data-hook="title" class="panel-title" data-anddom-display="" data-anddom-
hidden="true" style="display: none;"></div>
            <ul data-hook="item-container" class="list-group root">
              <li class="list-group-item-heading">
                <div><i data-hook="icon" class="icon fa fa-fw fa-star"></i><span data-hook-
'displayvalue="data-hook-'displayValue " class="value ">Favorites</span></div><ul data-
hook="item-container " class="list-group nested "></ul></li><li class="list-group-item-heading
"><div><i data-hook="icon " class="icon fa fa-fw fa-history "></i><span data-
hook-'displayvalue="data-hook- 'displayValue" class="value">Recent
Connections</span></div><ul data-hook="item-container" class="list-group nested"><li
class="list-group-item" title="localhost:27017"><a><div data-hook="date" class="date">5 minutes
ago</div><div data-hook="name" class="name">localhost:27017</div></a></li><li class="list-
group-item" title="ds133557.mlab.com:33557"><a><div data-hook="date" class="date">Mar 21,
2018 3:12 PM</div><div data-hook="name"
class="name">gdgvit@ds133557.mlab.com:33557</div></a></li><li class="list-group-item"
title="ds143030.mlab.com:43030"><a><div data-hook="date" class="date">Mar 18, 2018 2:05
AM</div><div data-hook="name"
class="name">user@ds143030.mlab.com:43030</div></a></li><li class="list-group-item"
title="ds133557.mlab.com:33557"><a><div data-hook="date" class="date">Mar 17, 2018 9:20
PM</div><div data-hook="name"
class="name">gdgvit@ds133557.mlab.com:33557</div></a></li><li class="list-group-item"
title="ds133557.mlab.com:33557"><a><div data-hook="date" class="date">Mar 17, 2018 8:16
PM</div><div data-hook="name"
class="name">gdgvit@ds133557.mlab.com:33557</div></a></li><li class="list-group-item"
title="ds143030.mlab.com:43030"><a><div data-hook="date" class="date">Mar 17, 2018 7:52
PM</div><div data-hook="name"
class="name">user@ds143030.mlab.com:43030</div></a></li><li class="list-group-item"
title="ds143030.mlab.com:43030"><a><div data-hook="date" class="date">Mar 17, 2018 7:45
PM</div><div data-hook="name"
class="name">user@ds143030.mlab.com:43030</div></a></li><li class="list-group-item"
title="ds263408.mlab.com:63408"><a><div data-hook="date" class="date">Mar 11, 2018 4:06
PM</div><div data-hook="name"
class="name">smugglers@ds263408.mlab.com:63408</div></a></li><li class="list-group-item"
```

```
title="ds143030.mlab.com:43030"><a><div data-hook="date" class="date">Feb 18, 2018 10:54 AM</div><div data-hook="name" class="name">user@ds143030.mlab.com:43030</div></a></li><li class="list-group-item" title="ds133557.mlab.com:33557"><a><div data-hook="date" class="date">Feb 3, 2018 10:49 AM</div><div data-hook="name" class="name">gdgvit@ds133557.mlab.com:33557</div></a></li></ul></li></ul></div></div><div class="form-container"><header><h2>Connect to Host</h2></header><div data-hook="message-div" class="message error" data-anddom-visibility="" data-anddom-hidden="true" style="visibility: hidden;"><p data-hook="message"></p></div><form data-hook="connect-form" data-test-id="connect-form"><div id="host-port" class="form-group"><div class="form-item"><label><span data-hook="label">Hostname</span></label><div data-hook="message-container" class="message message-above message-error" data-anddom-display="" data-anddom-hidden="true" style="display: none;"><p data-hook="message-text"></p></div><input name="hostname" placeholder="localhost" class="form-control" tabindex="0" type="text"></div><div class="form-item"><label><span data-hook="label">Port</span></label><div data-hook="message-container" class="message message-above message-error" data-anddom-display="" data-anddom-hidden="true" style="display: none;"><p data-hook="message-text"></p></div><input name="port" placeholder="27017" class="form-control" tabindex="0" type="text"></div></div><hr><div data-hook="authselect-subview"><div class="form-item"><label><span data-hook="label">Authentication</span></label><div data-hook="message-container" class="message message-below message-error" data-anddom-display="" data-anddom-hidden="true" style="display: none;"><p data-hook="message-text"></p></div><select type="select" class="form-control" name="authentication"><option value="NONE">None</option><option value="MONGODB">Username / Password</option><option value="KERBEROS">Kerberos</option><option value="LDAP">LDAP</option></select></div></div><div id="auth-NONE" class="active"></div><div id="auth-MONGODB"></div><div id="auth-KERBEROS"></div><div id="auth-LDAP"></div><hr><div data-hook="sslselect-subview"><div class="form-item"><label><span data-hook="label">SSL</span></label><div data-hook="message-container" class="message message-below message-error" data-anddom-display="" data-anddom-hidden="true" style="display: none;"><p data-hook="message-text"></p></div><select type="select" class="form-control" name="ssl"><option value="NONE">Off</option><option value="SYSTEMCA">Use System CA / Atlas Deployment</option><option value="SERVER">Server Validation</option><option value="ALL">Server and Client Validation</option><option value="UNVALIDATED">Unvalidated (insecure)</option></select></div></div><div id="ssl-NONE" class="active"></div><div id="ssl-SYSTEMCA"></div><div id="ssl-SERVER"></div><div id="ssl-ALL"></div><div id="ssl-UNVALIDATED"></div><hr><div data-hook="ssh_tunnel-select-subview"><div class="form-item"><label><span data-hook="label">SSH Tunnel</span></label><div data-hook="message-container" class="message message-below message-error" data-anddom-display="" data-anddom-hidden="true" style="display: none;"><p data-hook="message-text"></p></div><select type="select" class="form-control" name="ssh_tunnel"><option value="NONE">Off</option><option value="USER_PASSWORD">Use Password</option><option value="IDENTITY_FILE">Use Identity File</option></select></div></div><div id="ssh_tunnel-NONE" class="active"></div><div id="ssh_tunnel-USER_PASSWORD"></div><div id="ssh_tunnel-IDENTITY_FILE"></div><hr><div class="form-item"><label><span data-hook="label">Favorite Name</span><i data-hook="connect-favorite-name" class="help"></i></label><div data-hook="message-container" class="message message-above message-error" data-anddom-display=""
```

```
data-anddom-hidden="true" style="display: none;"><p data-hook="message-
text"></p></div><input name="name" placeholder="e.g. Shared Dev, QA Box, PRODUCTION"
class="form-control" tabindex="0" type="text"></div><div class="form-item"><button
type="submit" name="connect" data-hook="connect-button" data-test-id="connect-button"
class="btn btn-primary">Connect</button><span data-hook="favorite-buttons" class="buttons"
data-anddom-display="" data-anddom-hidden="true" style="display: none;"><button type="button"
name="createFavorite" data-hook="create-favorite-button" class="btn btn-default"
disabled="">Create Favorite</button><button type="button" name="removeFavorite" data-
hook="remove-favorite-button" class="btn btn-default" data-anddom-display="" data-anddom-
hidden="true" style="display: none;">Remove Favorite</button><button type="button"
name="saveChanges" data-hook="save-changes-button" class="btn btn-default" data-anddom-
display="" data-anddom-hidden="true" disabled="" style="display: none;">Save
Changes</button></span></div></form></div></div></div>
  <div data-hook="tour-container"></div>
  <div data-hook="optin-container"></div>
</div>
    <script src="index.js" charset="UTF-8" async=""></script>

</body>
```

Database layout page



Database Name	Storage Size	Collections	Indexes
admin	16.0KB	0	2
blockchain	36.0KB	1	1
clubs_and_chapters_data	44.0KB	1	1
clubs_and_chapters_questions	16.0KB	1	1
enron	212.8MB	1	1
local	40.0KB	1	1
new_database	100.0KB	1	1
subconn	48.0KB	2	2

```
<!DOCTYPE html>
<html lang="en">
 ▶<head>…</head>
 ▼<body>
  ▼<div id="application">
   ▼<div id="auto-update" class="hidden">
    ▼<div class="btn-group pull-right">
       <a data-hook="cancel" href="#" class="btn btn-primary">Not now</a>
       <a data-hook="confirm" href="#" class="btn btn-primary">Yes please</a>
     </div>
    ▶<p>…</p>
    </div>
   ▼<div data-hook="statusbar" data-test-id="status-bar">
    ▼<div data-reactroot id="statusbar" class="hidden">
     ▼<div class="progress" style="display: none; height: 4px;">
        <div class="progress-bar progress-bar-striped active" style="width:
        0%;"></div>
      </div>
      <div class="sidebar" style="display: none;"></div>
     ▼<ul class="message-background with-sidebar centered">
      ▼<li>
         <p class="message" style="visibility: hidden;"></p>
        ▶<div class="spinner" style="visibility: hidden;">…</div>
         <div class="subview"></div>
       </li>
      </ul>
     </div>
    </div>
    <div data-hook="notifications"></div>
…  ▼<div data-hook="layout-container"> == $0
    ▼<div data-reactroot class="page">
     ▶<div class="content with-sidebar">…</div>
     ▼<div class="compass-sidebar-container">
      ▼<div class="compass-sidebar" data-test-id="instance-sidebar">
       ▼<div class="compass-sidebar-properties">
        ▶<div class="compass-sidebar-instance compass-sidebar-instance-
         is-active">…</div>
        ▶<div class="compass-sidebar-stats">…</div>
         </div>
       ▶<div class="compass-sidebar-filter">…</div>
       ▶<div class="compass-sidebar-content">…</div>
        </div>
      </div>
     </div>
    </div>
    <div data-hook="tour-container"></div>
```

```
element.style {
}
* {                                  <style>…</style>
  ~~user-select: text;~~
  -webkit-user-select: text;
}
* {                                  <style>…</style>
  outline: ▶none;
}
* {                                  <style>…</style>
  ~~-webkit-box-sizing: border-box;~~
  ~~-moz-box-sizing: border-box;~~
  box-sizing: border-box;
}
div {                     user agent stylesheet
  display: block;
}
```

▶ box-sizing	border-…
▶ color	■rgb(7…
▶ display	block
▶ font-family	Akziden…
▶ font-size	14px

```
<body>
    <div id="application">
        <div id="auto-update" class="hidden">
            <div class="btn-group pull-right"><a data-hook="cancel" href="#" class="btn btn-
primary">Not now</a><a data-hook="confirm" href="#" class="btn btn-primary">Yes
please</a></div>
            <p>A newer version of Compass is now available! Would you like to install it and restart
Compass?</p>
```

```
        </div>
        <div data-hook="statusbar" data-test-id="status-bar">
            <div data-reactroot="" id="statusbar" class="hidden">
                <div class="progress" style="display: none; height: 4px;">
                    <div class="progress-bar progress-bar-striped active" style="width: 0%;"></div>
                </div>
                <div class="sidebar" style="display: none;"></div>
                <ul class="message-background with-sidebar centered">
                    <li>
                        <p class="message" style="visibility: hidden;"></p>
                        <div class="spinner" style="visibility: hidden;">
                            <div class="rect1"></div>
                            <div class="rect2"></div>
                            <div class="rect3"></div>
                            <div class="rect4"></div>
                            <div class="rect5"></div>
                        </div>
                        <div class="subview"></div>
                    </li>
                </ul>
            </div>
        </div>
        <div data-hook="notifications"></div>
        <div data-hook="layout-container">
            <div data-reactroot="" class="page">
                <div class="content with-sidebar">
                    <div class="RTSS">
                        <div class="tab-nav-bar tab-nav-bar-is-light-theme">
                            <div class="tab-nav-bar tab-nav-bar-header">
                                <ul class="tab-nav-bar tab-nav-bar-tabs">
                                    <li id="Databases" data-test-id="databases-tab" class="tab-nav-bar tab-nav-
bar-tab tab-nav-bar-is-selected"><span class="tab-nav-bar tab-nav-bar-link"
href="#">Databases</span></li>
                                    <li id="Performance" data-test-id="performance-tab" class="tab-nav-bar tab-
nav-bar-tab "><span class="tab-nav-bar tab-nav-bar-link" href="#">Performance</span></li>
                                </ul>
                            </div>
                            <div class="tab-views">
                                <div data-test-id="databases-content" class="tab">
                                    <div class="rtss-databases" data-test-id="databases-table">
                                        <div class="rtss-databases-create-button action-bar">
                                            <div class="tooltip-button-wrapper" data-tip="This action is not
available on a secondary node" data-for="is-not-writable">
                                                <button class="btn btn-primary btn-xs" type="button" data-test-
id="open-create-database-modal-button">Create Database</button>
                                            </div>
                                        </div>
                                        <div class="sortable-table sortable-table-is-light-theme">
                                            <table class="sortable-table-table">
                                                <thead>
```

```
              <tr class="sortable-table-thead-tr">
                <th class="sortable-table-th">
                  <!-- react-text: 22 -->Database Name
                  <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                <th class="sortable-table-th">
                  <!-- react-text: 25 -->Storage Size
                  <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                <th class="sortable-table-th">
                  <!-- react-text: 28 -->Collections
                  <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                <th class="sortable-table-th">
                  <!-- react-text: 31 -->Indexes
                  <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                <th class="sortable-table-th sortable-table-th-is-last-col"></th>
              </tr>
            </thead>
            <tbody>
              <tr class="sortable-table-tbody-tr">
                <td class="sortable-table-td" data-test-id="sortable-table-column-0" title="admin"><a class="rtss-databases-link" href="#">admin</a></td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-1" title="16.0KB">16.0KB</td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-2" title="">0</td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-3" title="">2</td>
                <td class="sortable-table-td" data-test-id="sortable-table-delete" title="Delete admin">
                  <button type="button" class="sortable-table-trash-button btn btn-default"><span class="fa fa-trash-o sortable-table-trash-icon"></span></button>
                </td>
              </tr>
              <tr class="sortable-table-tbody-tr">
                <td class="sortable-table-td" data-test-id="sortable-table-column-0" title="blockchain"><a class="rtss-databases-link" href="#">blockchain</a></td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-1" title="36.0KB">36.0KB</td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-2" title="">1</td>
                <td class="sortable-table-td" data-test-id="sortable-table-column-3" title="">1</td>
                <td class="sortable-table-td" data-test-id="sortable-table-delete" title="Delete blockchain">
                  <button type="button" class="sortable-table-trash-button btn btn-default"><span class="fa fa-trash-o sortable-table-trash-icon"></span></button>
                </td>
```

```
                                        <rect class="legend-box chart-color-0"
id="boxinsert" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">inserts</text>
                                        <text data-test-id="performance-insert"
class="legend-count text-insert" transform="translate(15,22)">0</text>
                                      </g>
                                      <g class="subLegend"
transform="translate(65.83333333333333,0)">
                                        <rect class="legend-box chart-color-1"
id="boxquery" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">queries</text>
                                        <text data-test-id="performance-query"
class="legend-count text-query" transform="translate(15,22)">0</text>
                                      </g>
                                      <g class="subLegend"
transform="translate(131.66666666666666,0)">
                                        <rect class="legend-box chart-color-2"
id="boxupdate" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">updates</text>
                                        <text data-test-id="performance-update"
class="legend-count text-update" transform="translate(15,22)">0</text>
                                      </g>
                                      <g class="subLegend"
transform="translate(197.5,0)">
                                        <rect class="legend-box chart-color-3"
id="boxdelete" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">deletes</text>
                                        <text data-test-id="performance-delete"
class="legend-count text-delete" transform="translate(15,22)">0</text>
                                      </g>
                                      <g class="subLegend"
transform="translate(263.3333333333333,0)">
                                        <rect class="legend-box chart-color-4"
id="boxcommand" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">commands</text>
                                        <text data-test-id="performance-command"
class="legend-count text-command" transform="translate(15,22)">3</text>
                                      </g>
                                      <g class="subLegend"
transform="translate(344.16666666666663,0)">
                                        <rect class="legend-box chart-color-5"
id="boxgetmore" width="8" height="8" rx="1.6" ry="1.6"></rect>
                                        <text class="legend-linename"
transform="translate(13,9)">getmores</text>
```

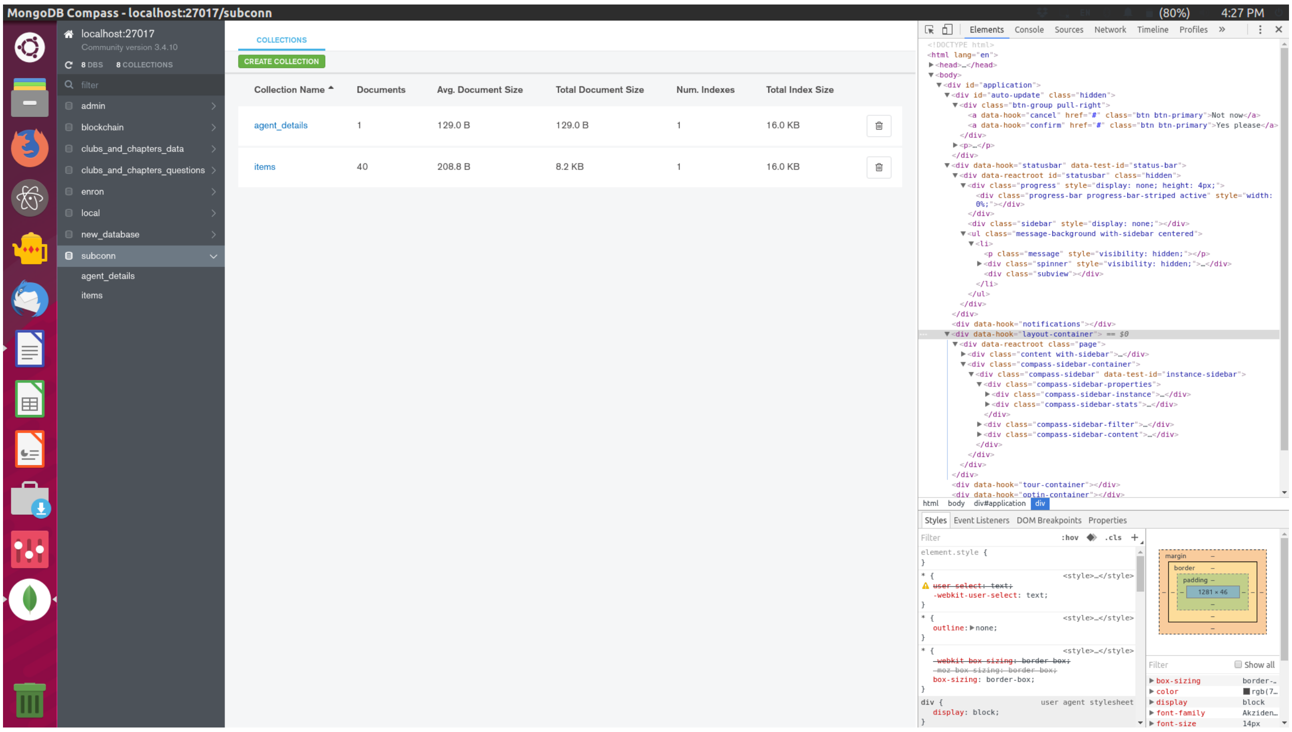
```
                                      <text data-test-id="performance-getmore"
class="legend-count text-getmore" transform="translate(15,22)">0</text>
                                    </g>
                                  </g>
                                  <g class="focus"
transform="translate(47.916666666666664,25)">
                                    <line class="overlay-line"
transform="translate(432.0833333333333,0)" x1="0" y1="75" x2="0" y2="0"></line>
                                    <path class="overlay-triangle"
transform="translate(432.0833333333333,-3)"
d="M0,3.2237097954706257L3.7224194364083987,-3.2237097954706257
-3.7224194364083987,-3.2237097954706257Z"></path>
                                  </g>
                                  <rect class="overlay" transform="translate(55,25)"
width="425" height="75" style="opacity: 0;"></rect>
                                </svg>
                              </div>
                            </div>
                          </div>
                        </div>
                        <div class="globallock">
                          <div>
                            <div class="GlobalLock">
                              <div class="d3component">
                                <svg width="520" height="145">
                                  <g class="chart" transform="translate(55,25)">
                                    <rect class="chart-rect" style="width: 425px; height:
75px;"></rect>
                                    <text class="chart-title" x="0" y="-10">read &amp;
write</text>
                                    <g class="axis-labels">
                                      <text class="y-label text-units"
transform="translate(-5,20)"></text>
                                      <text class="second-label second-units"
transform="translate(430,20)"></text>
                                      <text class="y-label text-count"
transform="translate(-5,10)">1</text>
                                      <text class="second-label second-count"
transform="translate(430,10)"></text>
                                    </g>
                                    <g class="line-div">
                                      <path class="line chart-color-0" id="tagaReads"
d="M375.42375,75C376.6196527777778,75,380.2404166666667,75,382.5991666666667,75S387.
2127777777778,75,389.57624999999996,75S394.4153472222222,75,396.78,75S401.41840277777
777,75,403.76416666666665,75S408.48875,75,410.8545833333333,75S415.60159722222227,75,4
17.9591666666667,75S423.82652777777776,75,425,75" transform="translate(-
0.3891149629532745,0)" style="fill: none;"></path>
                                    </g>
                                    <g class="line-div">
                                    <g class="line-div">
<rect class="legend-box chart-color-2" id="boxconnections" width="8" height="8" rx="1.6"
ry="1.6"></rect>
                                      <text class="legend-linename"
transform="translate(13,9)">connections</text>
                                      <text data-test-id="performance-connections"
class="legend-count text-connections" transform="translate(15,22)">5</text>
                                    </g>
                                  </g>
                                  <g class="focus"
transform="translate(47.916666666666664,25)">
                                    <line class="overlay-line"
transform="translate(432.0833333333333,0)" x1="0" y1="75" x2="0" y2="0"></line>
                                    <path class="overlay-triangle"
transform="translate(432.0833333333333,-3)"
d="M0,3.2237097954706257L3.7224194364083987,-3.2237097954706257
-3.7224194364083987,-3.2237097954706257Z"></path>
                                  </g>
                                  <rect class="overlay" transform="translate(55,25)"
width="425" height="75" style="opacity: 0;"></rect>
                                </svg>
                              </div>
                            </div>
                          </div>
                        </div>
                        <div class="mem">
                          <div>
                            <div class="Mem">
                              <div class="d3component">
                                <svg width="520" height="145">
                                  <g class="chart" transform="translate(55,25)">
                                    <rect class="chart-rect" style="width: 425px; height:
75px;"></rect>
                                    <text class="chart-title" x="0" y="-
10">memory</text>
                                    <g class="axis-labels">
                                      <text class="y-label text-units"
transform="translate(-5,20)">GB</text>
                                      <text class="second-label second-units"
transform="translate(430,20)"></text>
                                      <text class="y-label text-count"
transform="translate(-5,10)">1</text>
                                      <text class="second-label second-count"
transform="translate(430,10)"></text>
                                    </g>
                                    <g class="line-div">
                                    </g>
                                  </g>
                                  <g class="focus"
transform="translate(47.916666666666664,25)">
```

```
                                    <line class="overlay-line"
transform="translate(432.0833333333333,0)" x1="0" y1="75" x2="0" y2="0"></line>
                                    <path class="overlay-triangle"
transform="translate(432.0833333333333,-3)"
d="M0,3.2237097954706257L3.7224194364083987,-3.2237097954706257
-3.7224194364083987,-3.2237097954706257Z"></path>
                                  </g>
                                  <rect class="overlay" transform="translate(55,25)"
width="425" height="75" style="opacity: 0;"></rect>
                                </svg>
                              </div>
                            </div>
                          </div>
                        </div>
                      </div>
                    </section>
                    <section class="rt__lists-out">
                      <div class="listview">
                        <div class="rt-details" style="display: none;">
                          <header class="rt-details__header">
                            <h2 class="rt-details__headerlabel">operation details</h2>
                            <div class="rt-details__closebutton"><i class="fa fa-times"></i>
                              <!-- react-text: 84 -->Close
                              <!-- /react-text -->
                            </div>
                          </header>
                          <div class="rt-details__body">
                            <div class="rt-details__opinfo">
                              <div class="rt-details__collection-slow"></div>
                              <div class="rt-details__op"></div>
                              <div class="rt-details__time">undefined ms</div>
                            </div>
                            <ul class="rt-details__list">
                              <li class="rt-details__item">
                                <div class="rt-details__datatype">opid</div>
                                <div class="rt-details__datatype-val"></div>
                              </li>
                              <li class="rt-details__item">
                                <div class="rt-details__datatype">client s</div>
                                <div class="rt-details__datatype-val"></div>
                              </li>
                              <li class="rt-details__item">
                                <div class="rt-details__datatype">active</div>
                                <div class="rt-details__datatype-val"></div>
                              </li>
                              <li class="rt-details__item">
                                <div class="rt-details__datatype">wait lock</div>
                                <div class="rt-details__datatype-val"></div>
                              </li>
                            </ul>
                            <div class="rt-details__raw">
                              <text>{}</text>
                            </div>
                          </div>
                        </div>
                        <div class="rt-lists" style="display: block;">
                          <header class="rt-lists__header">
                            <h2 class="rt-lists__headerlabel">Hottest
Collections</h2></header>
                          <div class="rt-lists__listdiv" id="div-scroll">
                            <ul class="rt-lists__list">
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-
hot">blockchain.transactions</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 258 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-
hot">clubs_and_chapters_data.posts</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 266 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-
hot">clubs_and_chapters_questions.posts</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 274 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-hot">enron.messages</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 282 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
```

```
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-
hot">new_database.test</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 290 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-
hot">subconn.agent_details</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 298 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                              <li class="rt-lists__item">
                                <div class="rt-lists__collection-hot">subconn.items</div>
                                <div class="rt-lists__load">
                                  <!-- react-text: 306 -->0
                                  <!-- /react-text --><span>%</span></div>
                                <div class="rt-lists__rw" style="width: 0%;">
                                  <div class="rt-lists__r" style="width: 0%;">R</div>
                                  <div class="rt-lists__w">W</div>
                                </div>
                              </li>
                            </ul>
                          </div>
                        </div>
                        <div class="rt-lists" style="display: block;">
                          <header class="rt-lists__header">
                            <h2 class="rt-lists__headerlabel">Slowest
Operations</h2></header>
                          <div data-test-id="no-slow-operations" class="rt-lists__empty-
error">✔ No Slow Operations</div>
                        </div>
                      </div>
                    </section>
                  </section>
                </div>
```

```
              </div>
            </div>
          </div>
        </div>
        <div class="compass-sidebar-container">
          <div class="compass-sidebar" data-test-id="instance-sidebar">
            <div class="compass-sidebar-properties">
              <div class="compass-sidebar-instance compass-sidebar-instance-is-active"><i 
class="fa fa-home compass-sidebar-instance-icon"></i>
                <div data-test-id="sidebar-instance-details" class="compass-sidebar-instance-
hostname">localhost:27017</div>
                <!-- react-text: 119 -->
                <!-- /react-text -->
                <div data-test-id="sidebar-instance-version" class="compass-sidebar-instance-
version">Community version 3.4.10</div>
              </div>
              <div class="compass-sidebar-stats">
                <button class="compass-sidebar-refresh-button" data-test-id="instance-refresh-
button"><i class="fa fa-repeat"></i></button>
                <div class="compass-sidebar-property-column"><span data-test-id="sidebar-
db-count" class="compass-sidebar-strong-property">8</span>
                  <!-- react-text: 126 -->DBs
                  <!-- /react-text -->
                </div>
                <div class="compass-sidebar-property-column"><span data-test-id="sidebar-
collection-count" class="compass-sidebar-strong-property">8</span>
                  <!-- react-text: 129 -->Collections
                  <!-- /react-text -->
                </div>
              </div>
            </div>
            <div class="compass-sidebar-filter"><i class="fa fa-search compass-sidebar-search-
icon"></i>
              <input data-test-id="sidebar-filter-input" class="compass-sidebar-search-input" 
placeholder="filter">
            </div>
            <div class="compass-sidebar-content">
              <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                <div class="compass-sidebar-item-header compass-sidebar-item-header-is-
expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon 
mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                  <div class="compass-sidebar-title" title="admin" data-test-id="sidebar-
database">admin</div>
                </div>
                <div class="compass-sidebar-item-content"></div>
              </div>
              <div class="compass-sidebar-item compass-sidebar-item-is-top-level">...
```

Collections layout page



MongoDB Compass - localhost:27017/subconn

localhost:27017
Community version 3.4.10
8 DBS 8 COLLECTIONS

- admin
- blockchain
- clubs_and_chapters_data
- clubs_and_chapters_questions
- enron
- local
- new_database
- subconn
  - agent_details
  - items

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size
agent_details	1	129.0 B	129.0 B	1	16.0 KB
items	40	208.8 B	8.2 KB	1	16.0 KB

```
<!DOCTYPE html>
<html lang="en">
▶<head>…</head>
▼<body>
  ▼<div id="application">
    ▼<div id="auto-update" class="hidden">
      ▼<div class="btn-group pull-right">
          <a data-hook="cancel" href="#" class="btn btn-primary">Not now</a>
          <a data-hook="confirm" href="#" class="btn btn-primary">Yes please</a>
        </div>
      ▶<p>…</p>
      </div>
    ▼<div data-hook="statusbar" data-test-id="status-bar">
      ▼<div data-reactroot id="statusbar" class="hidden">
        ▼<div class="progress" style="display: none; height: 4px;">
            <div class="progress-bar progress-bar-striped active" style="width:
            0%;"></div>
          </div>
          <div class="sidebar" style="display: none;"></div>
        ▼<ul class="message-background with-sidebar centered">
          ▼<li>
              <p class="message" style="visibility: hidden;"></p>
            ▶<div class="spinner" style="visibility: hidden;">…</div>
              <div class="subview"></div>
            </li>
          </ul>
        </div>
      </div>
      <div data-hook="notifications"></div>
    ▼<div data-hook="layout-container"> == $0
      ▼<div data-reactroot class="page">
        ▶<div class="content with-sidebar">…</div>
        ▼<div class="compass-sidebar-container">
          ▼<div class="compass-sidebar" data-test-id="instance-sidebar">
            ▼<div class="compass-sidebar-properties">
              ▶<div class="compass-sidebar-instance">…</div>
              ▶<div class="compass-sidebar-stats">…</div>
              </div>
            ▶<div class="compass-sidebar-filter">…</div>
            ▶<div class="compass-sidebar-content">…</div>
            </div>
          </div>
        </div>
      </div>
      <div data-hook="tour-container"></div>
      <div data-hook="optin-container"></div>
```

```
element.style {
}
* {                                   <style>…</style>
  user-select: text;
  -webkit-user-select: text;
}
* {                                   <style>…</style>
  outline: ▶none;
}
* {                                   <style>…</style>
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}
div {                       user agent stylesheet
  display: block;
}
```

▶ box-sizing	border-…
▶ color	■ rgb(7…
▶ display	block
▶ font-family	Akziden…
▶ font-size	14px

```
<body>
    <div id="application">
        <div id="auto-update" class="hidden">
            <div class="btn-group pull-right"><a data-hook="cancel" href="#" class="btn btn-primary">Not now</a><a data-hook="confirm" href="#" class="btn btn-primary">Yes please</a></div>
            <p>A newer version of Compass is now available! Would you like to install it and restart Compass?</p>
        </div>
        <div data-hook="statusbar" data-test-id="status-bar">
            <div data-reactroot="" id="statusbar" class="hidden">
                <div class="progress" style="display: none; height: 4px;">
                    <div class="progress-bar progress-bar-striped active" style="width: 0%;"></div>
                </div>
                <div class="sidebar" style="display: none;"></div>
                <ul class="message-background with-sidebar centered">
                    <li>
                        <p class="message" style="visibility: hidden;"></p>
                        <div class="spinner" style="visibility: hidden;">
                            <div class="rect1"></div>
                            <div class="rect2"></div>
                            <div class="rect3"></div>
                            <div class="rect4"></div>
                            <div class="rect5"></div>
                        </div>
                        <div class="subview"></div>
                    </li>
                </ul>
            </div>
        </div>
```

```
<div data-hook="notifications"></div>
<div data-hook="layout-container">
    <div data-reactroot="" class="page">
        <div class="content with-sidebar">
            <div class="collections">
                <div class="tab-nav-bar tab-nav-bar-is-light-theme">
                    <div class="tab-nav-bar tab-nav-bar-header">
                        <ul class="tab-nav-bar tab-nav-bar-tabs">
                            <li id="Collections" data-test-id="collections-tab" class="tab-nav-bar tab-nav-bar-tab tab-nav-bar-is-selected"><span class="tab-nav-bar tab-nav-bar-link" href="#">Collections</span></li>
                        </ul>
                    </div>
                    <div class="tab-views">
                        <div data-test-id="collections-content" class="tab">
                            <div class="collections-table" data-test-id="collections-table">
                                <div class="collections-table-create-button action-bar">
                                    <div class="tooltip-button-wrapper" data-tip="This action is not available on a secondary node." data-for="is-not-writable">
                                        <button class="btn btn-primary btn-xs" type="button" data-test-id="open-create-collection-modal-button">Create Collection</button>
                                    </div>
                                </div>
                                <div class="sortable-table sortable-table-is-light-theme">
                                    <table class="sortable-table-table">
                                        <thead>
                                            <tr class="sortable-table-thead-tr">
                                                <th class="sortable-table-th sortable-table-th-is-active">
                                                    <!-- react-text: 336 -->Collection Name
                                                    <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                                                <th class="sortable-table-th">
                                                    <!-- react-text: 339 -->Documents
                                                    <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                                                <th class="sortable-table-th">
                                                    <!-- react-text: 342 -->Avg. Document Size
                                                    <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                                                <th class="sortable-table-th">
                                                    <!-- react-text: 345 -->Total Document Size
                                                    <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                                                <th class="sortable-table-th">
                                                    <!-- react-text: 348 -->Num. Indexes
                                                    <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-table-sort-icon"></span></th>
                                                <th class="sortable-table-th">
                                                    <!-- react-text: 351 -->Total Index Size
```

```
                              <!-- /react-text --><span class="fa fa-sort-asc fa-fw sortable-
table-sort-icon"></span></th>
                            <th class="sortable-table-th sortable-table-th-is-last-col"></th>
                          </tr>
                        </thead>
                        <tbody>
                          <tr class="sortable-table-tbody-tr">
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-0" title="agent_details"><a class="collections-table-link" href="#">agent_details</a></td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-1" title="1">1</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-2" title="129.0 B">129.0 B</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-3" title="129.0 B">129.0 B</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-4" title="">1</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-5" title="16.0 KB">16.0 KB</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-delete"
title="Delete agent_details">
                              <button type="button" class="sortable-table-trash-button btn
btn-default"><span class="fa fa-trash-o sortable-table-trash-icon"></span></button>
                            </td>
                          </tr>
                          <tr class="sortable-table-tbody-tr">
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-0" title="items"><a class="collections-table-link" href="#">items</a></td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-1" title="40">40</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-2" title="208.8 B">208.8 B</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-3" title="8.2 KB">8.2 KB</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-4" title="">1</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-
column-5" title="16.0 KB">16.0 KB</td>
                            <td class="sortable-table-td" data-test-id="sortable-table-delete"
title="Delete items">
                              <button type="button" class="sortable-table-trash-button btn
btn-default"><span class="fa fa-trash-o sortable-table-trash-icon"></span></button>
                            </td>
                          </tr>
                        </tbody>
                      </table>
                    </div>
                    <!-- react-empty: 355 -->
                    <!-- react-empty: 356 -->
                  </div>
```

```
                </div>
              </div>
            </div>
          </div>
        </div>
        <div class="compass-sidebar-container">
          <div class="compass-sidebar" data-test-id="instance-sidebar">
            <div class="compass-sidebar-properties">
              <div class="compass-sidebar-instance"><i class="fa fa-home compass-sidebar-instance-icon"></i>
                <div data-test-id="sidebar-instance-details" class="compass-sidebar-instance-hostname">localhost:27017</div>
                <!-- react-text: 119 -->
                <!-- /react-text -->
                <div data-test-id="sidebar-instance-version" class="compass-sidebar-instance-version">Community version 3.4.10</div>
              </div>
              <div class="compass-sidebar-stats">
                <button class="compass-sidebar-refresh-button" data-test-id="instance-refresh-button"><i class="fa fa-repeat"></i></button>
                <div class="compass-sidebar-property-column"><span data-test-id="sidebar-db-count" class="compass-sidebar-strong-property">8</span>
                  <!-- react-text: 126 -->DBs
                  <!-- /react-text -->
                </div>
                <div class="compass-sidebar-property-column"><span data-test-id="sidebar-collection-count" class="compass-sidebar-strong-property">8</span>
                  <!-- react-text: 129 -->Collections
                  <!-- /react-text -->
                </div>
              </div>
            </div>
            <div class="compass-sidebar-filter"><i class="fa fa-search compass-sidebar-search-icon"></i>
              <input data-test-id="sidebar-filter-input" class="compass-sidebar-search-input" placeholder="filter">
            </div>
            <div class="compass-sidebar-content">
              <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                  <div class="compass-sidebar-title" title="admin" data-test-id="sidebar-database">admin</div>
                </div>
                <div class="compass-sidebar-item-content"></div>
              </div>
              <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
```

```
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="blockchain" data-test-id="sidebar-database">blockchain</div>
                    </div>
                    <div class="compass-sidebar-item-content"></div>
                </div>
                <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="clubs_and_chapters_data" data-test-id="sidebar-database">clubs_and_chapters_data</div>
                    </div>
                    <div class="compass-sidebar-item-content"></div>
                </div>
                <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="clubs_and_chapters_questions" data-test-id="sidebar-database">clubs_and_chapters_questions</div>
                    </div>
                    <div class="compass-sidebar-item-content"></div>
                </div>
                <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="enron" data-test-id="sidebar-database">enron</div>
                    </div>
                    <div class="compass-sidebar-item-content"></div>
                </div>
                <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="local" data-test-id="sidebar-database">local</div>
                    </div>
                    <div class="compass-sidebar-item-content"></div>
                </div>
                <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                    <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon"></i>
                        <div class="compass-sidebar-title" title="new_database" data-test-id="sidebar-database">new_database</div>
```

```
                                </div>
                                <div class="compass-sidebar-item-content"></div>
                            </div>
                            <div class="compass-sidebar-item compass-sidebar-item-is-top-level">
                                <div class="compass-sidebar-item-header compass-sidebar-item-header-is-expandable compass-sidebar-item-header-is-actionable compass-sidebar-item-header-is-active"><i class="compass-sidebar-database-icon mms-icon-database"></i><i class="mms-icon-right-arrow compass-sidebar-expand-icon fa-rotate-90"></i>
                                    <div class="compass-sidebar-title" title="subconn" data-test-id="sidebar-database">subconn</div>
                                </div>
                                <div class="compass-sidebar-item-content">
                                    <div class="compass-sidebar-item">
                                        <div class="compass-sidebar-title compass-sidebar-title-is-actionable" data-test-id="sidebar-collection" title="subconn.agent_details">
                                            <!-- react-text: 313 -->agent_details
                                            <!-- /react-text -->
                                            <!-- react-text: 314 -->&nbsp;
                                            <!-- /react-text -->
                                        </div>
                                    </div>
                                    <div class="compass-sidebar-item">
                                        <div class="compass-sidebar-title compass-sidebar-title-is-actionable" data-test-id="sidebar-collection" title="subconn.items">
                                            <!-- react-text: 317 -->items
                                            <!-- /react-text -->
                                            <!-- react-text: 318 -->&nbsp;
                                            <!-- /react-text -->
                                        </div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
        <div data-hook="tour-container"></div>
        <div data-hook="optin-container"></div>
    </div>
    <script src="index.js" charset="UTF-8" async=""></script>

</body>
```