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## 1 DB Schema

Database will be located in the ~/.passman/ folder

```
{
  "_id": 1,
  "name": "encryped name (key=master password)",
  "password": "hashed password",
  "data": [
    {
      "_id": 1,
      "service": "encrypted name of service (key=master pw; cannot be duplicate)",
      "servicePassword": "encryped service password (key = master pw)",
      "serviceUrl": "encryped service url (key = master pw)",
      "serviceUserName": "encryped service username (key = master pw)"
    }
  ]
}
```

## 2 API

### 2.1 list

Called from user menu or via:

```
passman list
```

- List services as:
  1. Google | Sam  
`https://www.google.com`
  2. Yahoo | Sam  
`https://www.yahoo.com`
  3. Github | Sam  
`https://www.github.com`

### 2.2 add

Add a new service to the database

- Called from user menu or via

```
passman add
```

- Walk user through each of the following:

#### 2.2.1 Name (required - no duplicates)

- Name of the service
- Must be input by user
- Cannot match any existing names in db

#### 2.2.2 Password (required)

- Password for service.
- Prompt for manual entry or Auto generation

1. Auto Generate (Default)

- prompt for the following:

(a) Length

- Default: 30 characters

(b) Caps - Yes | No | Either

- Default: either

(c) Lowercase - Yes | No | Either

- Default: either

(d) Integers - Yes | No | Either

- Default: either

(e) Special Chars - Yes | No | Either

- Default: either

2. Manual entry

- prompt for password

### 2.2.3 URL (not required)

- URL for login page of service

### 2.2.4 User Name (not required)

- User name or email associated with service

## 2.3 remove

Remove a service and all associated data from the database

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

`passman remove [service name]`

## 2.4 edit

Walk user through the same steps as "Add". Prompt user to edit each field, or press enter to keep the data the same

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

```
passman edit [service name]
```

## 2.5 getname

Copies user name for a service to clipboard for 30 seconds

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

```
passman getname [service name]
```

## 2.6 getpass

Copies user password for a service to clipboard for 30 seconds

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

```
passman getpass [service name]
```

## 2.7 geturl

Copies service url to clipboard for 30 seconds

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

```
passman geturl [service name]
```

## 2.8 open

Opens the url for a service in the browser

- Called via menu or command line
  - command line takes an optional service name as a parameter (see below)
  - if no service name is provided, user will be prompted for one

```
passman open [service name]
```