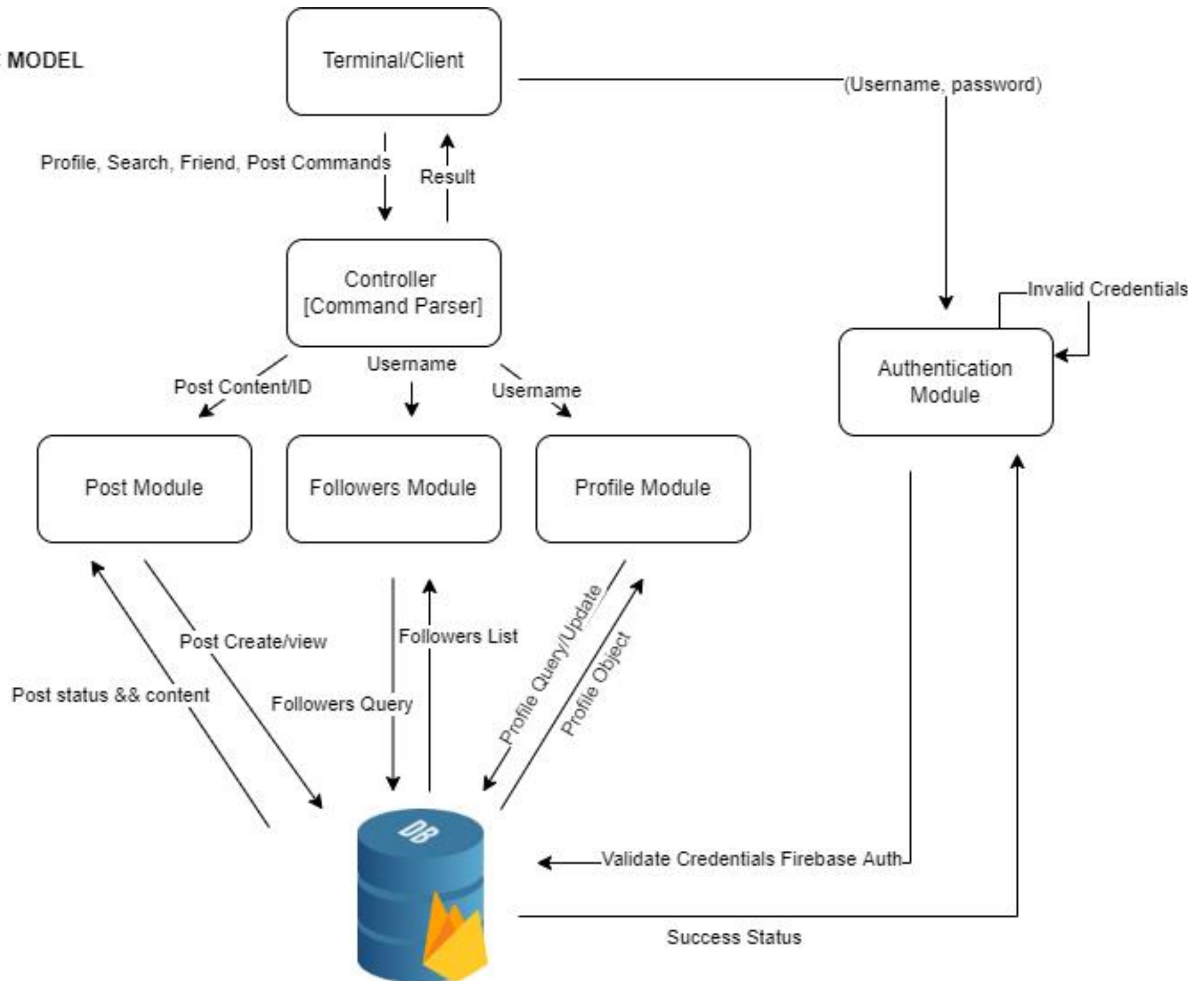


Figure 1: Use hierarchy among modules

MVC MODEL



DB NoSQL - Refer to FireBase ScreenShot for Example

AllPosts
PostID: String
TimeStamp: Date
Content: String
Username: String

Profile
Username: String
Full Name: String
Location: String
Following: List[String]
Followers: List[String]
Posts: Post Object

Users
UID: String
Username: String

DB Layout

https://socialmediaapp-53c0f-default-rtdb.firebaseio.com/

```
allposts
├── posts
│   ├── -MWIpcZID7vuC4oybA4G
│   │   ├── content: "Hey! I am Anando Zaman"
│   │   ├── post_id: "-MWIpcZID7vuC4oybA4G"
│   │   ├── time: "03/21/2021"
│   │   └── username: "anando"
│   ├── -MWIpnMbZaY0_gv7vZAN
│   ├── -MWIqU4wC9mXWm3yxhfQ
│   ├── -MWIr7MbPHHpcri-5ca0
│   ├── -MWIrOezXVoDC--zkVBq
│   ├── -MWIrSmYM3jmell8JkHr
│   ├── -MWzBMJMjE3zgXDp174j
│   ├── -MX9b5LJv5nK5oweH39e
│   └── -MXOtYTSSFFUnjqXnpj5
├── profile
│   ├── username
│   │   ├── anando
│   │   │   ├── following
│   │   │   │   ├── location: "Toronto"
│   │   │   │   ├── name: "anando zaman"
│   │   │   │   └── posts
│   │   │   │   ├── -MWIpcZID7vuC4oybA4G
│   │   │   │   └── -MWIpnMbZaY0_gv7vZAN
│   │   ├── dummy
│   │   ├── graeme
│   │   ├── tester1
│   │   └── yuvi
│   └── users
│       ├── all: "yuvi, tester1, anando, graeme, dum"
│       └── uid
│           ├── 4PcArkNFrbSy0JTc7xLdWmOT4cL2: "yuvi"
│           └── GvQcUvYMMSTb7nCaZx7nZogp8nH2: "graeme"
└── users
```

Database location: United States (us-central1)