

```
User {  
    First_name: string  
    Last_name: string  
    Image: blob  
    Username: string  
    Email: string  
    Password: string  
    UID: string  
    Friends: UID[ ]  
    Blocked_Users: UID[]  
    Chats: UID[]  
}
```

```
Message {  
    Content: string  
    Message_id: UID  
    Sender: UID  
    Date_Time: Date time string format  
  
    PrivateMessage extends Message {  
        Status: enum(sent, received, failed)  
        Receivers: UID[ ]  
    }  
  
    PublicMessage extends Message {  
        Status: successfullyPosted: boolean  
    }  
}
```

```
Chat {  
    Messages: UID[ ]  
    Members: UID[ ]  
    Chat_id: UID  
  
    GroupChat extends Chat {  
        Admin: UID  
        Group_name: string  
        Group_icon: Blob  
        Background: Blob  
        Banned_Users: UID[]  
    }  
}
```

```
Chat_Invite {
```

```
    Invite_UID: UID
    Chat: UID
    Receiver: UID
    Sender: UID
    Status: enum(pending, accepted, rejected)
    Date_Time: Date time string format
}
```

```
Friend_Request {
    Sender: UID
    Receiver: UID
    Invite_UID: UID
    Date_Time: Date time string format
    Status: enum(pending, accepted, rejected)
}
```