

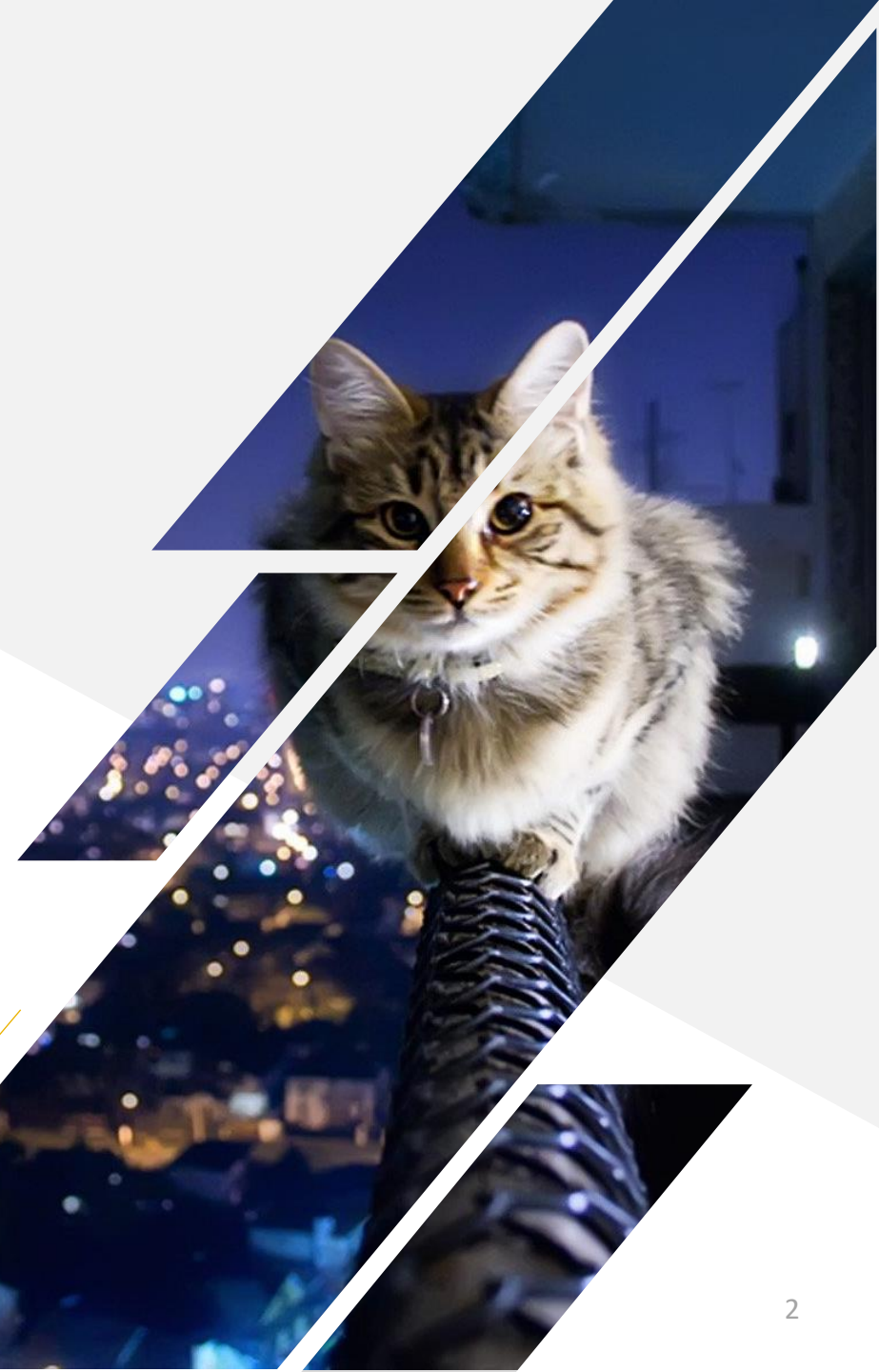
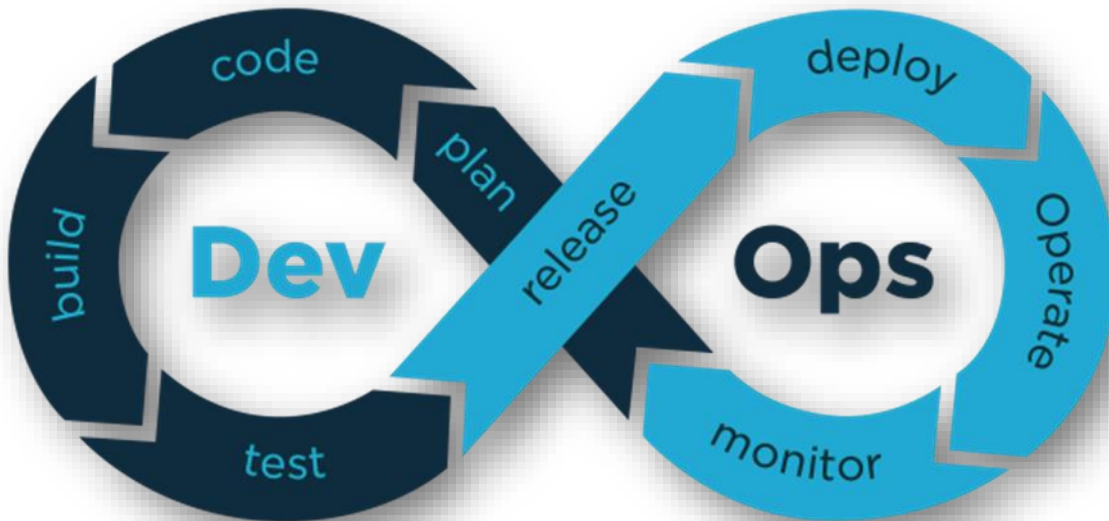


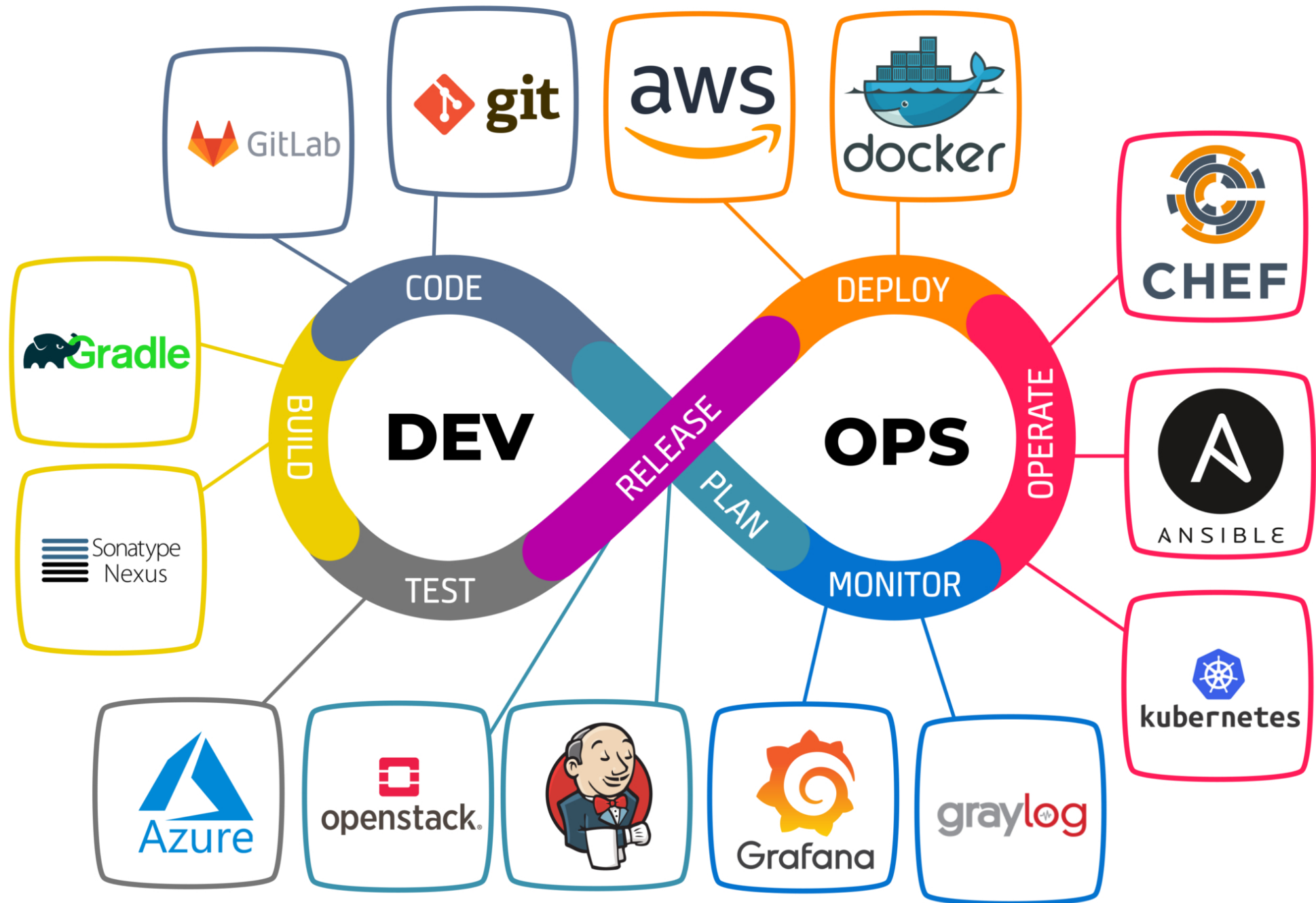
CaChat

Is a Cross-Platform
chatting Application
targeting to allow users
to use Real-Time chatting.

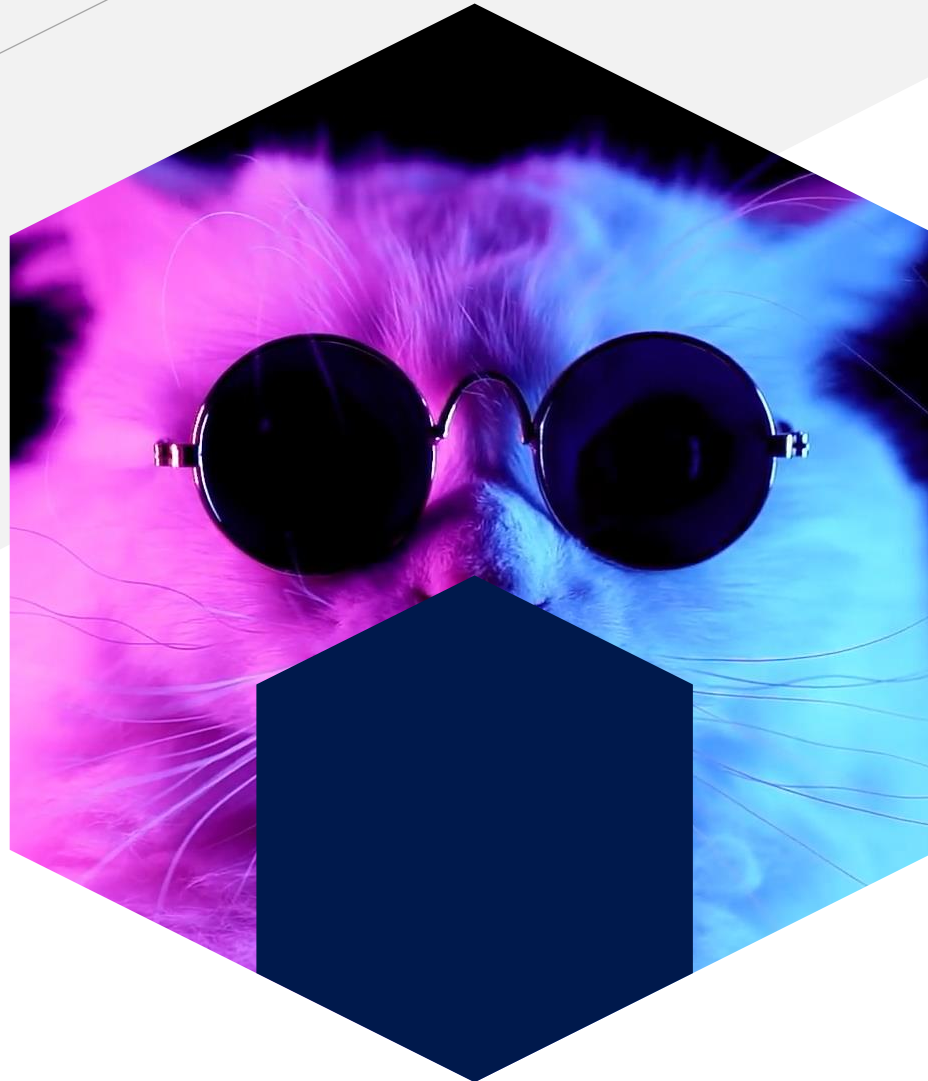
Dev-Ops

It aims to shorten the systems development life cycle and provide continuous delivery with high software quality. DevOps is complementary with Agile software development; several DevOps aspects came from the Agile methodology.





Requirements



Requirements

Functional :

- Authentication
- Recent conversation with pictures of users or groups.
- Activity status (online - Last seen).
- Search for Users.
- Initiate conversation with user or group.
- Real time sending & receiving text messages.
- Ability to create new user with name, Profile picture, Email and password.



Requirements

Non-Functional :

1- Security:



Firebase

The login System using Email & Password
Each User has UID (User ID) which is the Password Hashed

2- Usability:

the application should be
easy to use we will also try to provide
Cachat in Arabic & English.

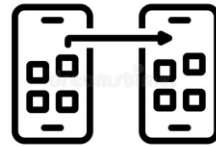


Requirements

Non-Functional :

3- Portability:

User can Login at anytime from
Any device using any version of Cachat



4- Compatibility:

the application should be fully
compatible on both iOS devices
and android devices.



Requirements

Non-Functional :

5- Reliability:

application should be reliable
and performing consistently well.



6- Performance:

application should be lightweight
Which will be ensured while publishing
and send messages instantly.

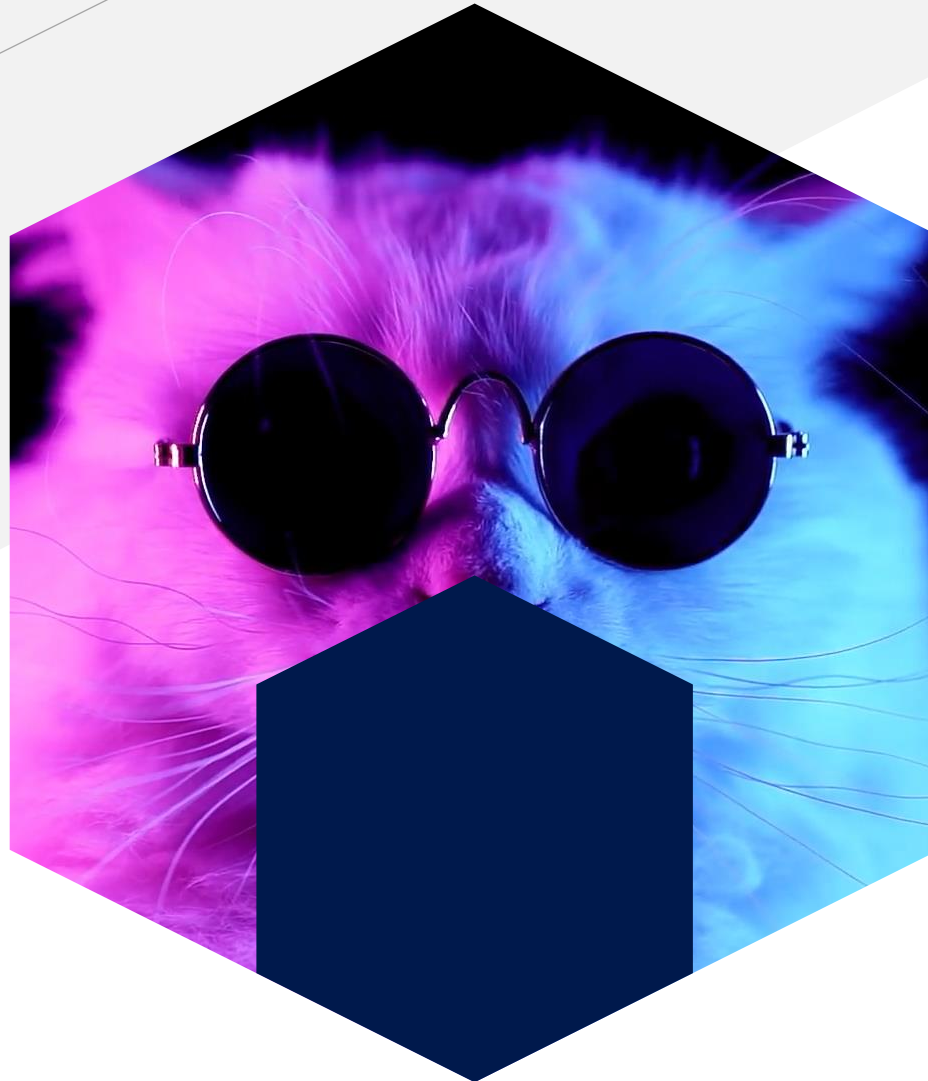


7- Efficiency:

Gradle and Cocoapods microservices
Is responsible for providing the best library
For the OS version



Diagrams



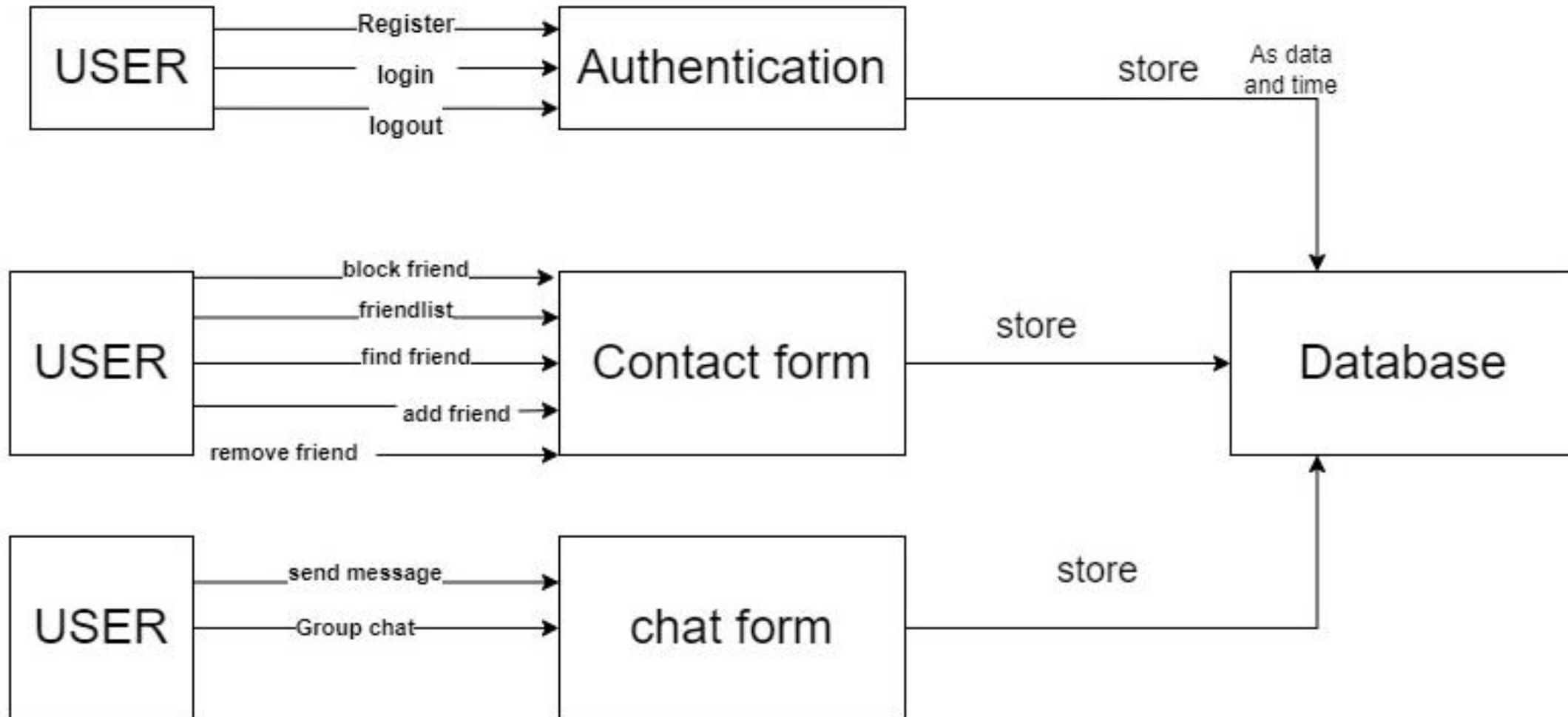
Data Flow Diagram

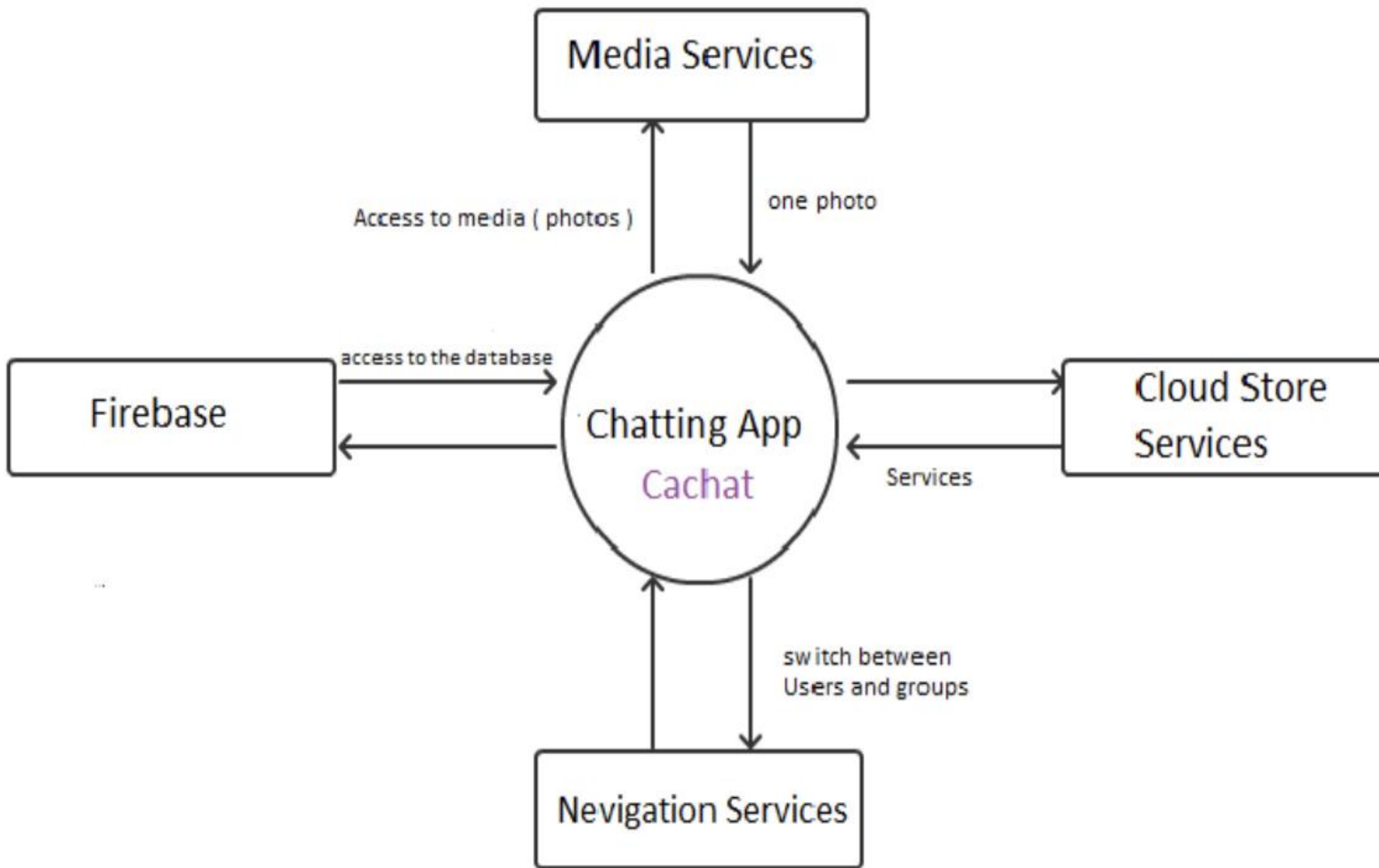
Explanation:

The user can register, log in and log out from the system then this methods will pass through Authentication that will be Stord in database as The data and time which will be used to track Service as last seen service.

User can: block, find, add, remove another user And also can send a message and this methods Will store it in the database.

Data Flow Diagram

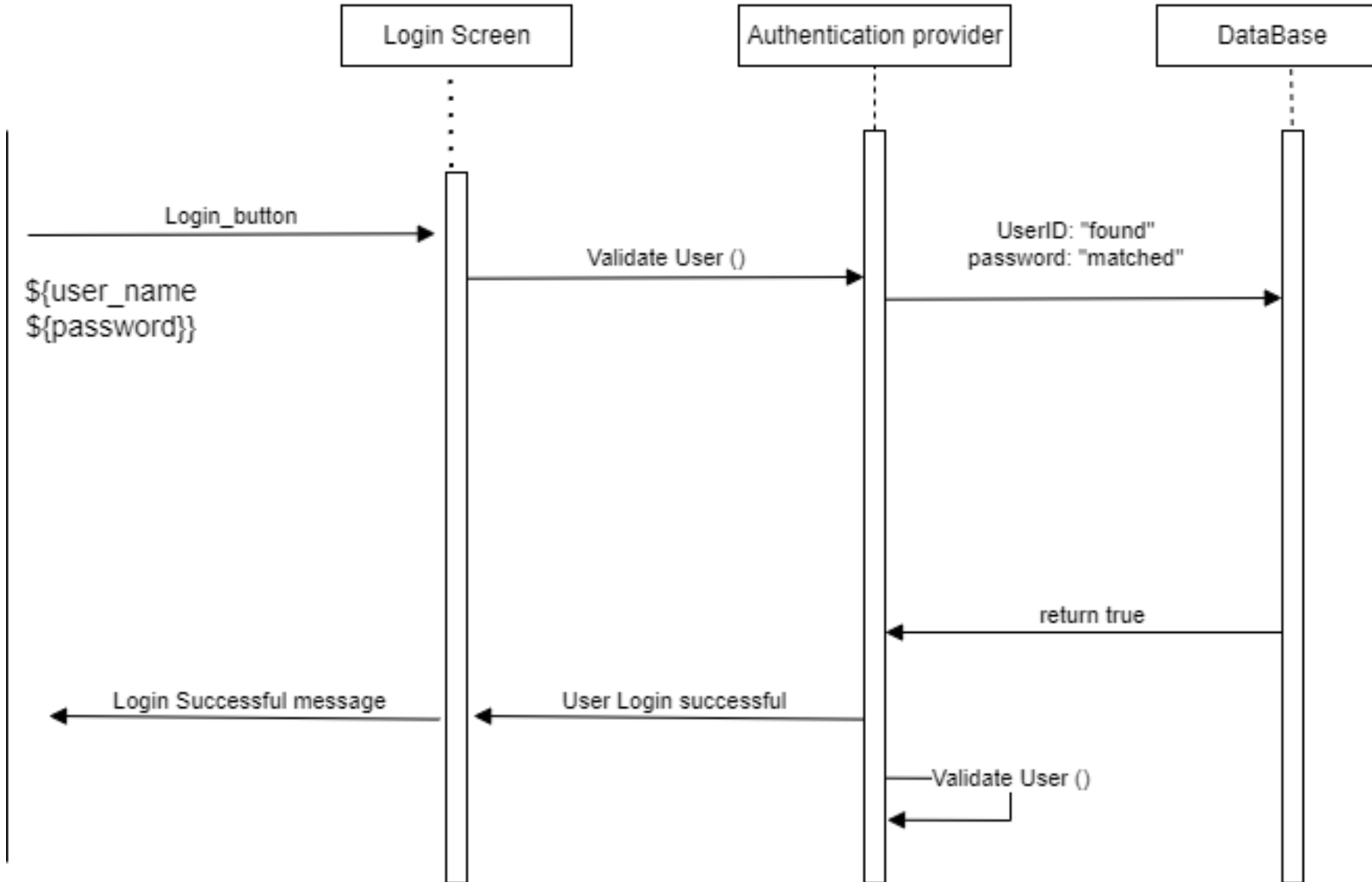


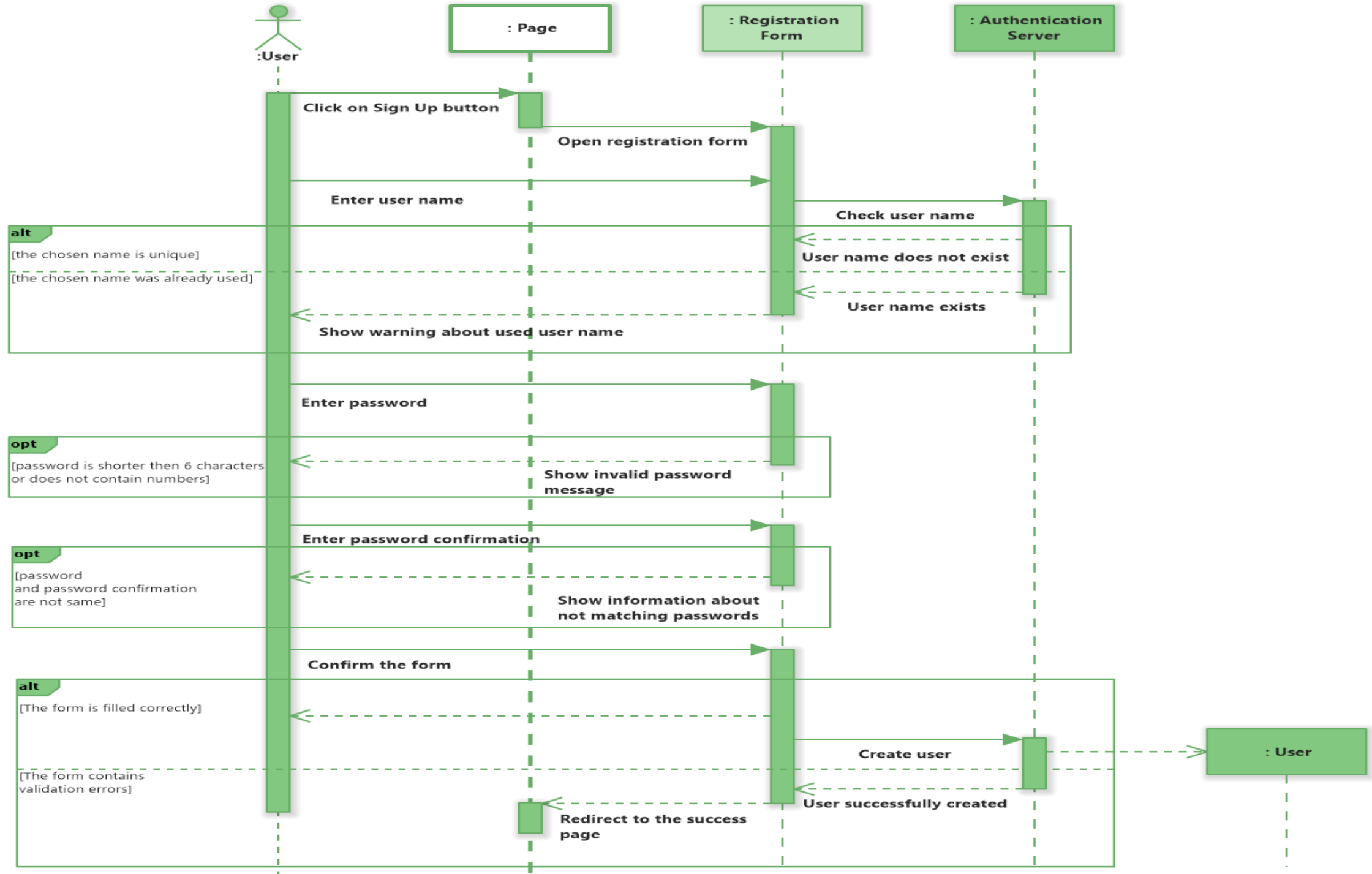


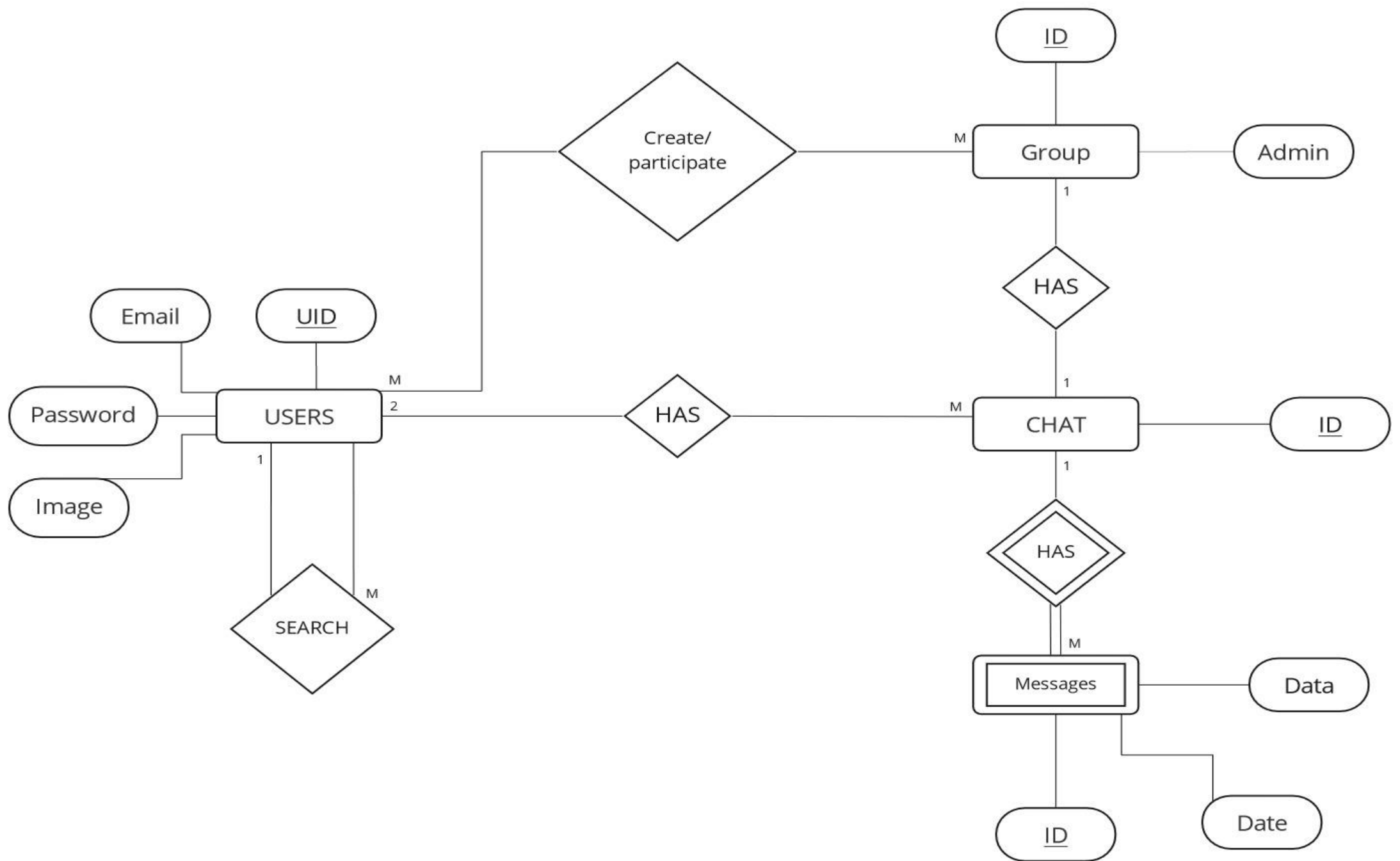


LOGIN Sequence Diagram

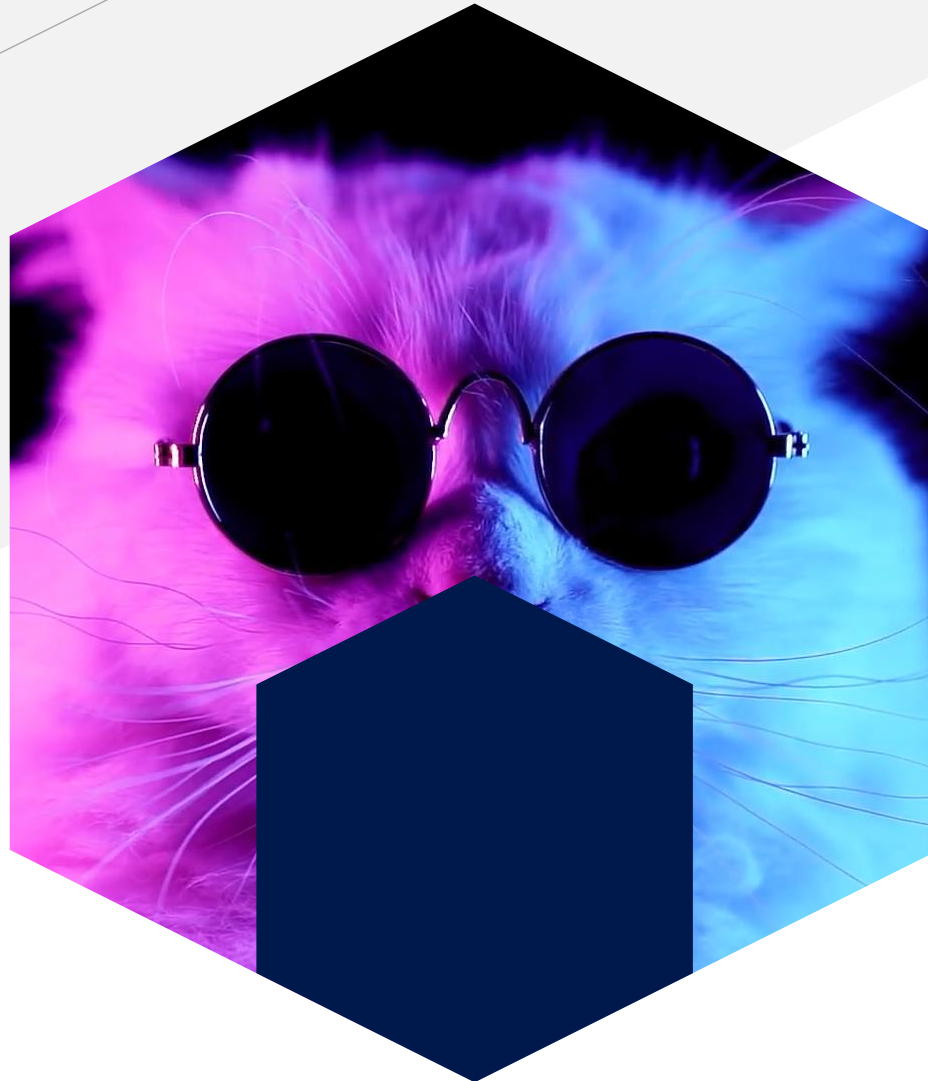
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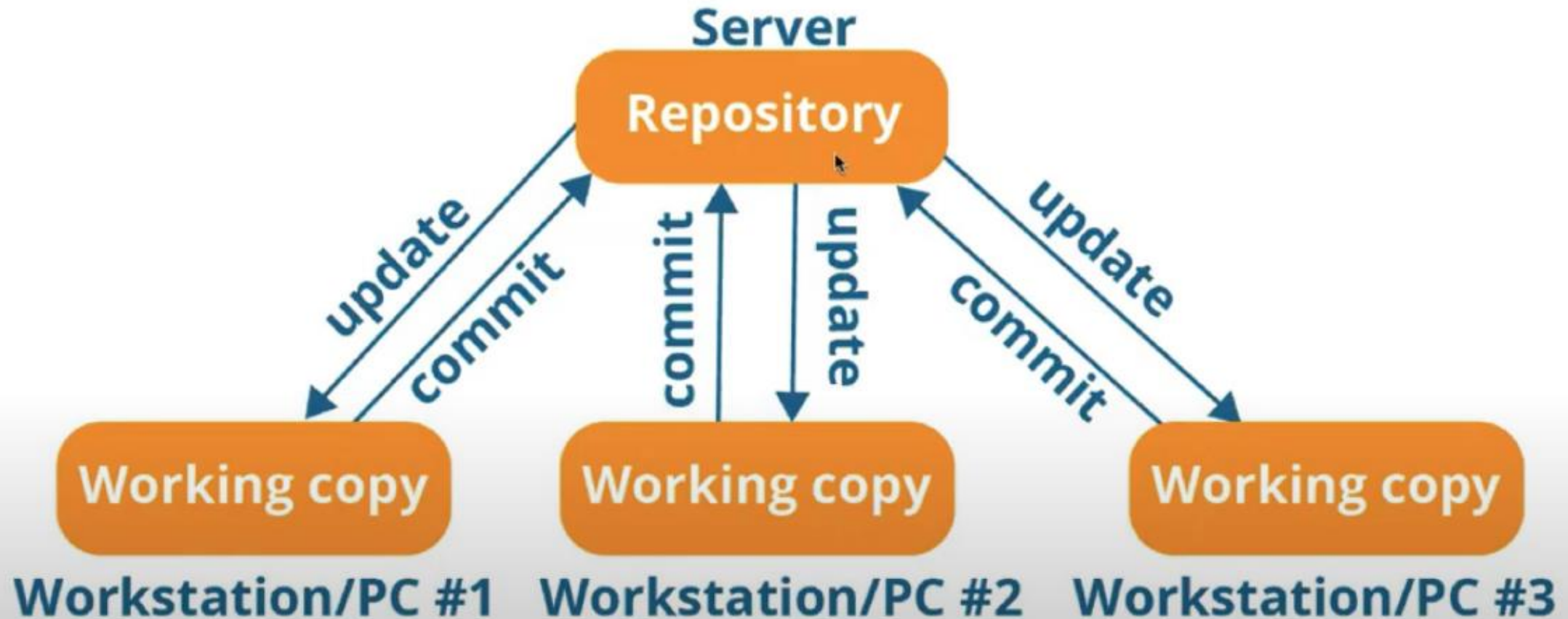


Mircoservices



Version Control

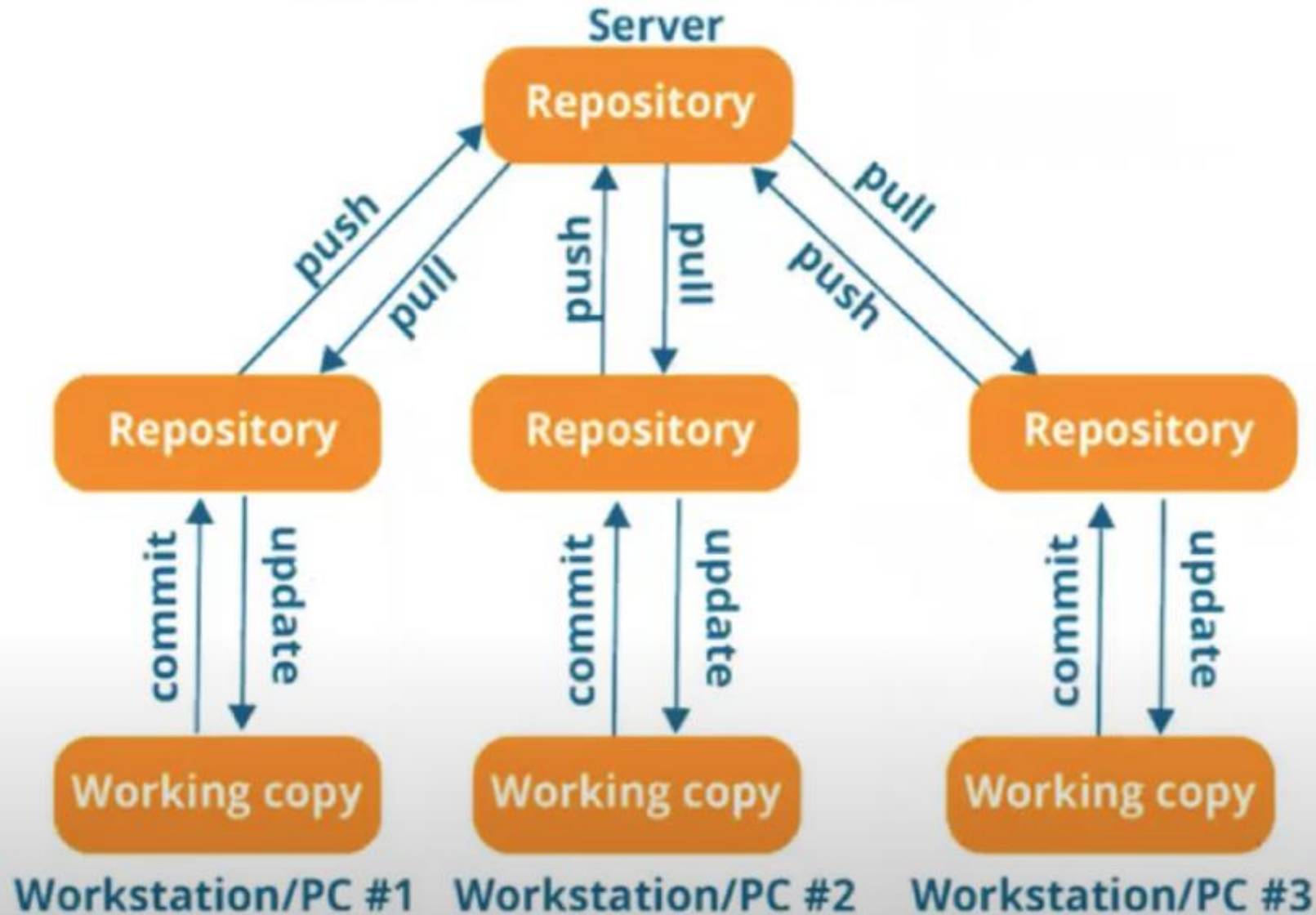
Centralized version control system



Distributed version control system



GitHub





```
apply plugin: 'com.android.application'

android {
    compileSdkVersion 21
    buildToolsVersion "21.1.2"

    defaultConfig {
        applicationId "com.example.myapplication"
        minSdkVersion 15
        targetSdkVersion 21
        versionCode 1
        versionName "1.0"
    }
}

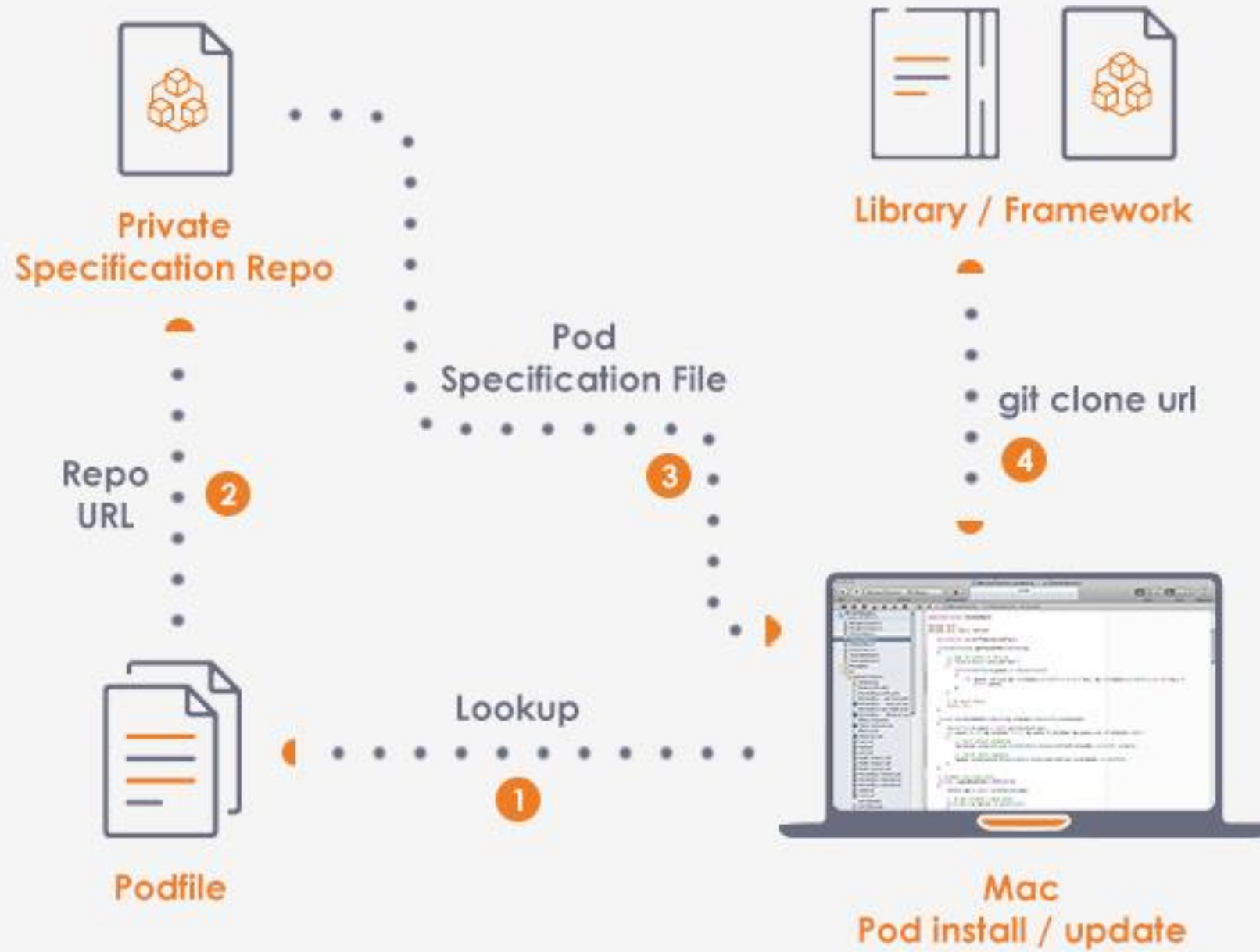
dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    compile 'com.android.support:appcompat-v7:21.0.3'
}
```

```
android {  
    productFlavors {  
        paid {  
            applicationId 'com.example.myapplication.paid'  
        }  
        demo {  
            applicationId 'com.example.myapplication.demo'  
        }  
    }  
}
```



Gradle is a build system, which is responsible for code compilation, testing, deployment and conversion of the code into . dex files and hence running the app on the device







Credits:

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