API Design Document

Users - POST /users
LOGIN POST /users/login
OTP POST /users/otp
Contacts POST GET DELETE BLOCK UNBLOCK /contacts
Chats - POST GET /chats
Message - GET POST DELETE /chats/{chatid}/messages

1. User
   1.1. User Onboarding

POST /users

Request

```
{
"first_name":"Selva",
"last_name":"S",
"country_code":"+91",
"mobile_number":"9632587410",
"profile_photo":"pic.jpg"
}
```

Status: 201 Created

Response

```
{
"User_id":"2222"
"country_code":"+91"
"mobile_number":"2324"
}
```

   1.2. Delete User
       DELETE /users/{user_id}/
       Status 204
   1.3. User OTP Request

POST /users/login

Request

```
{
"Country_code":"+91",
"mobile_number":"1597486320"
}
```

Response

```
"OTP sent to your mobile, Please use that for login"
```

1.4. Validate OTP

POST /users/OTP

Request

```
{
"mobileNumber":"1598463270",
"OTP":"8341"
}
```

Response

"User Validated"

1.5. User Logout

2. Contacts

2.1. Add Contact

POST /contacts

Request

```
{
"first_name": "Walter",
"last_name": "White",
"country_code":"+91",
"mobile_number":"2301456879"
}
```

Status 201 Created

2.2.   Delete Contact

DELETE /contacts/{contact_id}

Status 204

2.3.   Contact List View

2.3.1.   Alphabat View

GET /contacts/

Status 200

Response

```json
[
    {
        "contactFirstName": "Mike",
        "contactLastName": "J",
        "contactNumber": {
            "countryCode": "+91",
            "mobileNumber": "7458692130"
        },
        "contactId": 5,
        "contactProfilePic": null,
        "blocked": "N"
    },
    {
        "contactFirstName": "Ron",
        "contactLastName": "Junior",
        "contactNumber": {
            "countryCode": "+91",
            "mobileNumber": "7632148902"
        },
        "contactId": 6,
        "contactProfilePic": null,
        "blocked": "N"
```

```
        },
        {
            "contactFirstName": "Walter",
            "contactLastName": "White",
            "contactNumber": {
                "countryCode": "+91",
                "mobileNumber": "2301456879"
            },
            "contactId": 7,
            "contactProfilePic": null,
            "blocked": "N"
        }
]
```

2.3.2.   Frequently Contacted List View

GET /contacts/{user_id}/top

Status 200

Reponse

```
[
{
"contact_first_name":"TestA",
"contact_last_name":"TestB",
"contact_country_code":"+91",
"contact_mobile_number":"908732412",
"contact_profile_pic":picA.jpg,
"blocked":"N"
},
{
"contact_first_name":"TestC",
"contact_last_name":"TestB",
"contact_country_code":"+91",
"contact_mobile_number":"1232332524",
"contact_profile_pic":picC.jpg,
"blocked":"N"
```

```
}
]
```

    2.4.   Block Contact

          PUT /contacts/block/{contact_id}/

          Status 200

    2.5.   Unblock Contact

          PUT /contacts/unblock/{contact_id}/

          Status 200

3.   Chats

    3.1.   POST /chats - it will create new chat between two contacts

          {"contact_id":"112333"}

    3.2.   Send Message

          POST /chats/{chatid}/messages

          Request

```
{
    "contactId":9,
    "message_type":"text",
    "message_content":"How is everything?"
}
```

          Status 201 created

    3.3.   Update Message Status

    3.4.   Conversation History

          GET /chats - It will return last 5 conversion

          Status 200

          Response

```
[
{
"chatId":"",
"contactName":"",
"last_message_content":"",
"last_message_by":"",
"last_message_sent_time":""
},
{
"chatId":"",
"contactName":"",
"last_message_content":"",
"last_message_by":"",
"last_message_sent_time":""
},
{
"chatId":"",
"contactName":"",
"last_message_content":"",
"last_message_by":"",
"last_message_sent_time":""
}
]
```

3.5. Individual Chat history

GET /chats/{chatid}/messages -

Status 200

Response

```
[
    {
        "messageId": 2,
        "messageType": "text",
        "message_content": "Hai How r u?",
        "messageSentTime": "2022-02-01",
        "senderUserId": 1
```

```
    },
    {
        "messageId": 3,
        "messageType": "text",
        "message_content": "How is everything?",
        "messageSentTime": "2022-02-01",
        "senderUserId": 1
    }
]
```

  3.6. Delete Chat Message

    DELETE /chats/{chatId}/messages/{messageId}

    Status 204

  3.7. Delete Chat History

    DELETE /chat/{chatId}/

    Status 204

4. Notification

  4.1. Push Notification for New Message

 Web socket implementation - /push-notification and

stompClient.subscribe('/topic/messages'

5. Search

  5.1. Global search

    5.1.1. Search a text in chats and contacts

6. Group

  6.1. Create Group

    6.1.1. Create new group with multiple contacts

  6.2. Send Message in Group

  6.3. Message History view for a group