**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. 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. Delete User

DELETE /users/{user\_id}/

Status 204

* 1. 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. Validate OTP

POST /users/OTP

Request

| { "mobileNumber":"1598463270", "OTP":"8341" } |
| --- |

Response

“User Validated”

* 1. User Logout

1. Contacts
   1. Add Contact

POST /contacts

Request

| { "first\_name": "Walter", "last\_name": "White", "country\_code":"+91", "mobile\_number":"2301456879" } |
| --- |

Status 201 Created

* 1. Delete Contact

DELETE /contacts/{contact\_id}

Status 204

* 1. Contact List View
     1. Alphabat View

GET /contacts/

Status 200

Response

| [  {  "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"  } ] |
| --- |

* + 1. 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" } ] |
| --- |

* 1. Block Contact

PUT /contacts/block/{contact\_id}/

Status 200

* 1. Unblock Contact

PUT /contacts/unblock/{contact\_id}/

Status 200

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

{“contact\_id”:”112333”}

* 1. Send Message

POST /chats/{chatid}/messages

Request

| {  "contactId":9,  "message\_type":"text",  "message\_content":"How is everything?" } |
| --- |

Status 201 created

* 1. Update Message Status
  2. 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":"" } ] |
| --- |

* 1. 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  } ] |
| --- |

* 1. Delete Chat Message

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

Status 204

* 1. Delete Chat History

DELETE /chat/{chatId}/

Status 204

1. Notification
   1. Push Notification for New Message

Web socket implementation - /push-notification and stompClient.subscribe('/topic/messages'

1. Search
   1. Global search
      1. Search a text in chats and contacts
2. Group
   1. Create Group
      1. Create new group with multiple contacts
   2. Send Message in Group
   3. Message History view for a group