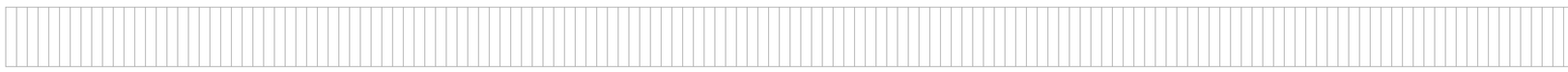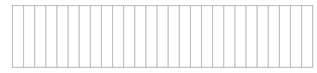Functions	Method	Path	Auth Rrequired	Data in					Data out	
User				Field	Type	Constraint	Example	Required	Type	Example
Create a user account	POST	/user	FALSE	first name	String	non-empty	"Joe"	TRUE	User Object	{ id: "1", firstName: "Joe", lastName: "Doe", username: "jdoe25", email: "jdoe25@gmail.com" }
				last name	String	non-empty	"Doe"	TRUE		
				username	String	Unique | min. charachers: 5	"jdoe25"	TRUE		
				email	String	Unique | Valid email notation	"jdoe25@gmail.com	TRUE		
				password	String	min. characters: 8	"12345678"	TRUE		
Log in	POST	/user/login	FALSE	username*, password*					User Object	{ id: "1", firstName: "Joe", lastName: "Doe", username: "jdoe25", email: "jdoe25@gmail.com" }
Log out	POST	/user/logout	TRUE							
Update user information	PATCH	/user	TRUE	first name	String	non-empty	"John"	FALSE	User Object	{ id: "1", firstName: "John", lastName: "Dohn", username: "jdohn25", email: "jdohn25@gmail.com" }
				last name	String	non-empty	"Dohn"	FALSE		
				username	String	Unique | min. charachers: 5	"jdohn25"	FALSE		
				email	String	Unique | Valid email notation	"jdohn25@gmail.com	FALSE		
				password	String	min. characters: 8	"56789012"	FALSE		
Set profile photo	PATCH	/user	TRUE	profile photo file*	Blob	max size: 1MB		TRUE		
Get user info	GET	/user or /user/:id	TRUE						User Object	{ id: "1", firstName: "Joe", lastName: "Doe", username: "jdoe25", email: "jdoe25@gmail.com" }
Delete user	DELETE	/user	TRUE							
Find users	GET	/users/limit?10	FALSE	Search Query	String		"Joe Doe"	FALSE	[Users]	[{ id: "1", firstName: "Joe", lastName: "Doe", username: "jdoe25", email: "jdoe25@gmail.com" }, ..., {...}]
Send a friend request	POST	/requests/friend/:id	TRUE						Request Object	{ id: "23", sender_id: "1", receiver_id: "2", status: "pending" }
Accept friend request	PATCH	/requests/friend/:id	TRUE						Request Object	{ id: "23", sender_id: "1", receiver_id: "2", status: "accepted" }
Get friend requests	GET	/requests/friend	TRUE						[Requests]	[{ id: "23", sender_id: "1", receiver_id: "2", status: "accepted" } , ..., {...}]
Remove friend	DELETE	/friends/:id	TRUE							
Broadcast (B) Messages										
Get B-messages	GET	/messages/posts	FALSE						[Posts]	[{ id: "34", sender_id: "1", sender_name: "John Dohn", date_time: date-format, content: "This is the post content" }]
Send B-message	POST	/messages/post	TRUE	message Content	String	Non-empty	"This is the conent of a post"	TRUE	Post Object	{ id: "34", sender_id: "1", sender_name: "John Dohn", date_time: date-format, content: "This is the post content" }
Comment on B-message	POST	/messages/post/:postID	TRUE	Comment content	String	Non-empty	"This is a comment on a post"		Comment Object	{ id: "62", sender_id: "1", sender_name: "John Dohn", date_time: date-format, content: "This is a comment on a post" }
Bookmark B-message	PATCH	/messages/post/:postID	TRUE							
Get user's B-messages	GET	/messages/posts	FALSE	userID	String		"1"	TRUE	[Posts]	[{ id: "34", sender_id: "1", sender_name: "John Dohn", date_time: date-format, content: "This is the post content" }]
Block user's B-messages	PATCH	/messages/posts	TRUE	userID	String		"1"	TRUE		
Unblock user's B-messages	PATCH	/messages/posts	TRUE	userID	String		"1"	TRUE		
Group (G) Chat/Conversation										
User creates group	POST	/group	TRUE	group name	String	Non-empty	"Groupchat #1"	TRUE	Group Object	{ id: "11", admin_id: "1", admin_name: "John Dohn", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: null, background: null, visibile: true, banned: [ ] }
				members(usersID)	Array of Strings	Non-empty	["1", "5", "11"]	TRUE		
Invite member to group	POST	/group/:id	TRUE	userID	String		"1"	TRUE		
Join a group	POST	/group/:id	TRUE						Group Object	{ id: "11", admin_id: "1", admin_name: "John Dohn", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: null, background: null, visibile: true, banned: [ ] }
Leave a group	DELETE	/group/:id	TRUE							
Ban member from group	PATCH	/group/:id	TRUE	userID	String		"1"	TRUE	Group Object	{ id: "11", admin_id: "1", admin_name: "John Dohn", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: null, background: null, visibile: true, banned: ["1"] }
Transfer ownership of group	PATCH	/group/:id	TRUE	userID(new Admin)	String		"3"	TRUE	Group Object	{ id: "11", admin_id: "3", admin_name: "Man Darr", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: null, background: null, visibile: true, banned: [ ] }
Change name of group	PATCH	/group/:id	TRUE	new group name	String	non-empty	"Groupchat #2"	TRUE	Group Object	{ id: "11", admin_id: "3", admin_name: "Man Darr", members: ["1", "5", "11"], group_name: "Groupchat #2", logo: null, background: null, visibile: true, banned: [ ] }
Change group logo	PATCH	/group/:id	TRUE	logo file	Blob	max size: 1MB		TRUE	Group Object	{ id: "11", admin_id: "3", admin_name: "Man Darr", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: Blob, background: null, visibile: true, banned: [ ] }
Change background of group	PATCH	/group/:id	TRUE	background file	Blob	max size: 1MB		TRUE	Group Object	{ id: "11", admin_id: "3", admin_name: "Man Darr", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: Blob, background: Blob, visibile: true, banned: [ ] }
Change group visibility	PATCH	/group/:id	TRUE	visibility settings (private or public)	Boolean		"false"	TRUE	Group Object	{ id: "11", admin_id: "3", admin_name: "Man Darr", members: ["1", "5", "11"], group_name: "Groupchat #1", logo: Blob, background: Blob, visibile: false, banned: [ ] }
Delete group	DELETE	/group/:id	TRUE							
Get all G-messages	GET	/messages/group/:id	TRUE						[Messages]	[{ id: "56", sender_id: "1", sender_name: "John Dohn", group_id: "11", date_time: date-format, content: "This is a message's content" }, ..., {...}]
Search in Conversation	GET	/messages/group/:id	TRUE	Search Query	String		"Hello"	FALSE	[Messages]	[{ id: "56", sender_id: "1", sender_name: "John Dohn", group_id: "11", date_time: date-format, content: "Hello World!" }, ..., {...}]
Send G-message	POST	/message/group/:id	TRUE	Message content	String	non-empty	"This is a group message"	TRUE	Message Object	{ id: "56", sender_id: "1", sender_name: "John Dohn", group_id: "11", date_time: date-format, content: "Hello World!" }
Direct (D) Messages										
Load messages	GET	/messages/chat/:id	TRUE						[Messages]	[{ id: "56", sender_id: "1", sender_name: "John Dohn", receiver_id: "3", receiver_name: "Man Darr", date_time: date-format, content: "Hello World!" }, ..., {...}]
Send a D-message	POST	/message/chat/:id	TRUE	Message content	String	non-empty	"This is a direct message"	TRUE	Message Object	{ id: "56", sender_id: "1", sender_name: "John Dohn", receiver_id: "3", receiver_name: "Man Darr", date_time: date-format, content: "This is a direct message" }
Edit messages	PATCH	/message/chat/:m_id/:c_id	TRUE	Message content	String	non-empty	"This is a new direct message"	TRUE	Message Object	{ id: "56", sender_id: "1", sender_name: "John Dohn", receiver_id: "3", receiver_name: "Man Darr", date_time: date-format, content: "This is a new direct message" }
Delete message	DELETE	/message/chat/:m_id/:c_id	TRUE							
Pin message	PATCH	/message/chat/:m_id/:c_id	TRUE							
Forwarding	POST	/message/chat/:m_id	TRUE	recipientID*	String		"1"	TRUE	Message Object	{ id: "57", sender_id: "1", sender_name: "John Dohn", receiver_id: "5", receiver_name: "Molly Joe", date_time: date-format, content: "This is a direct message" }