model

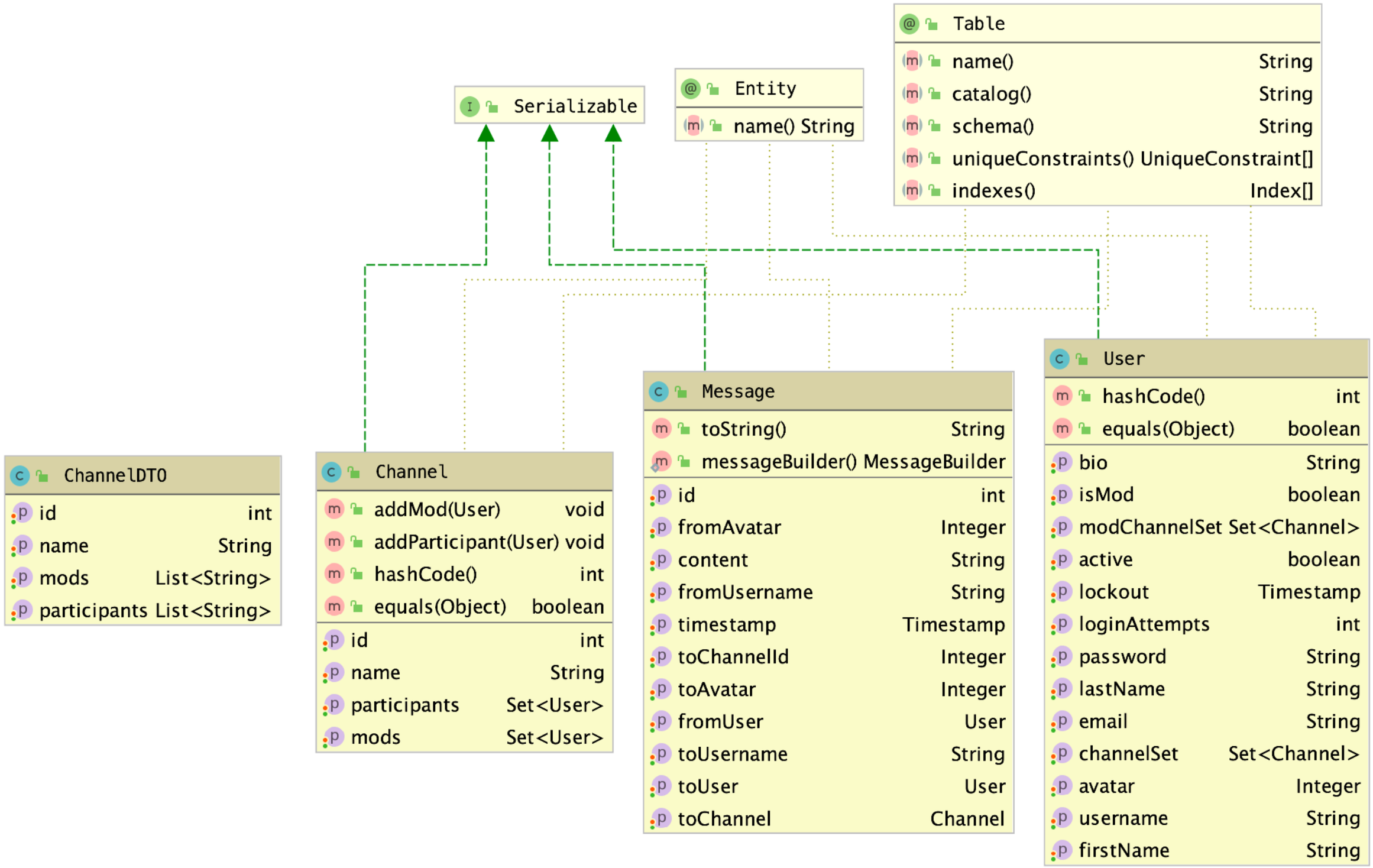
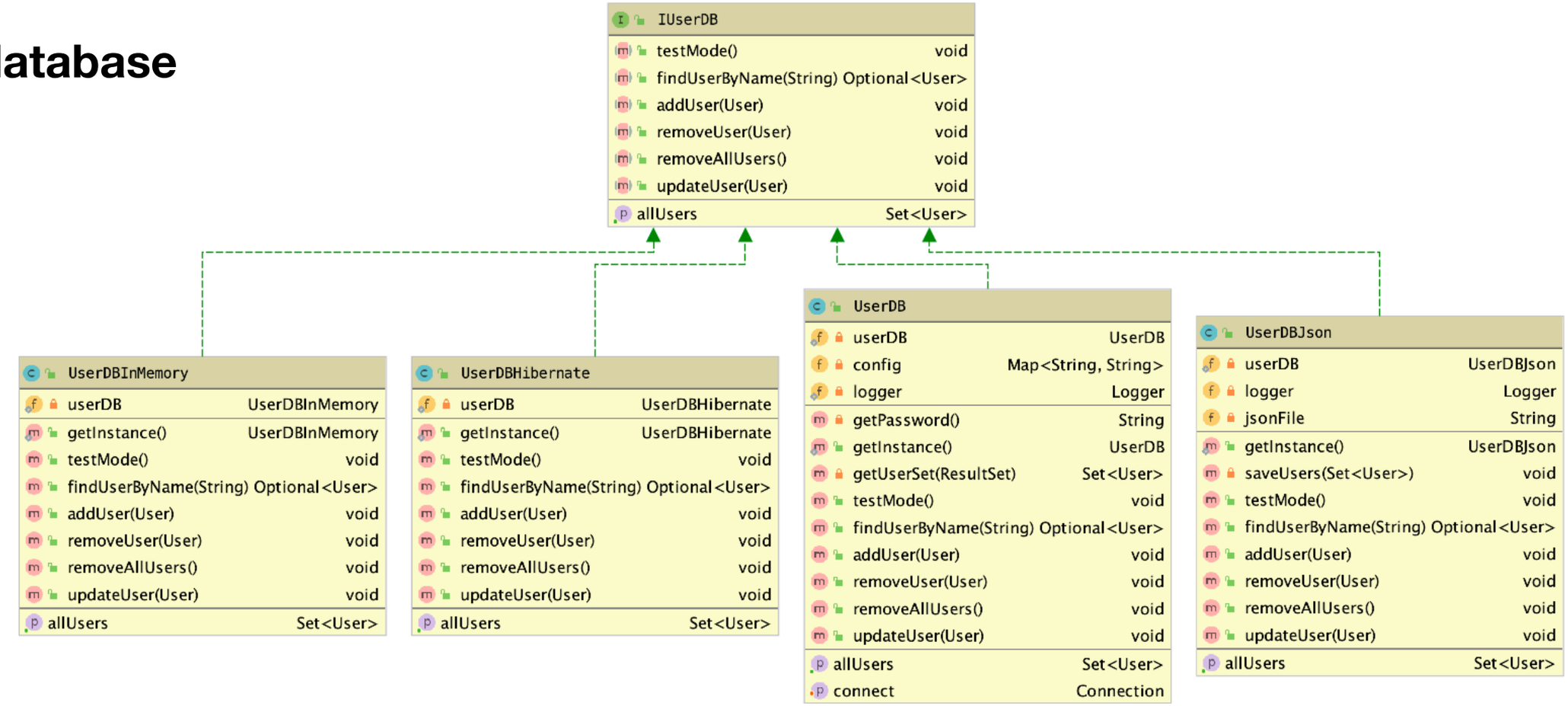
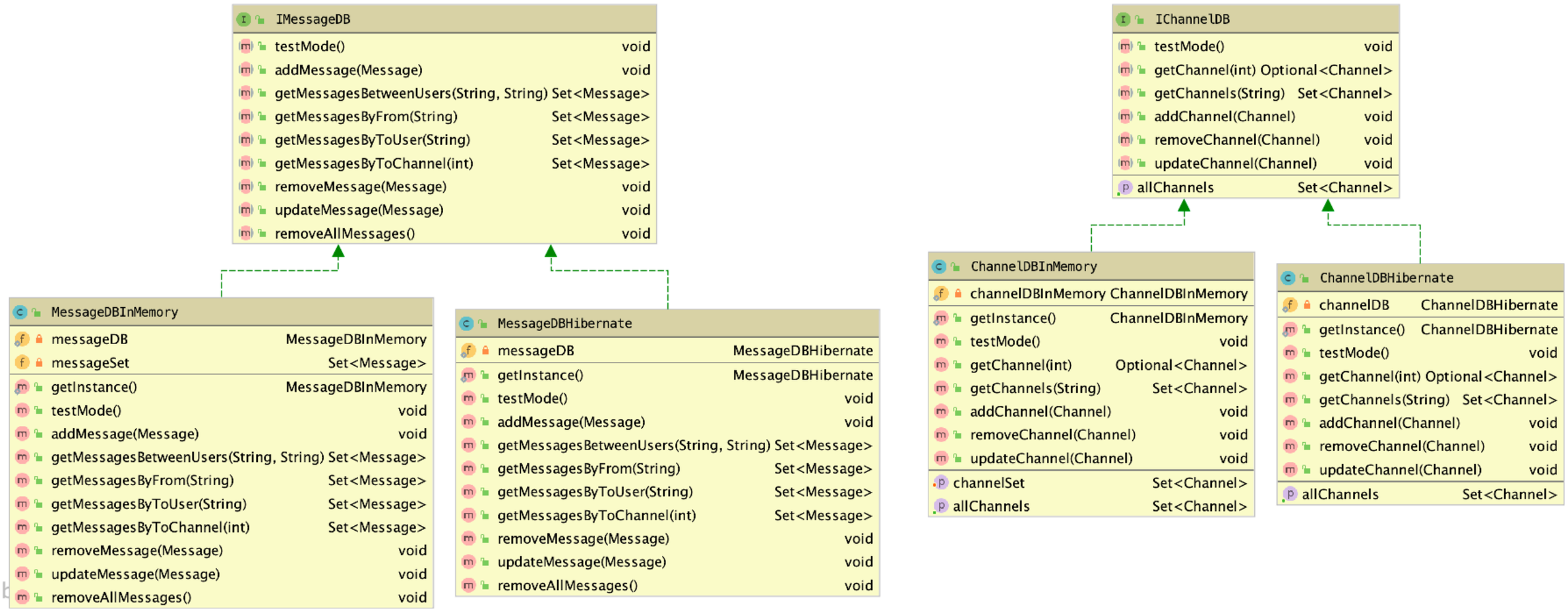


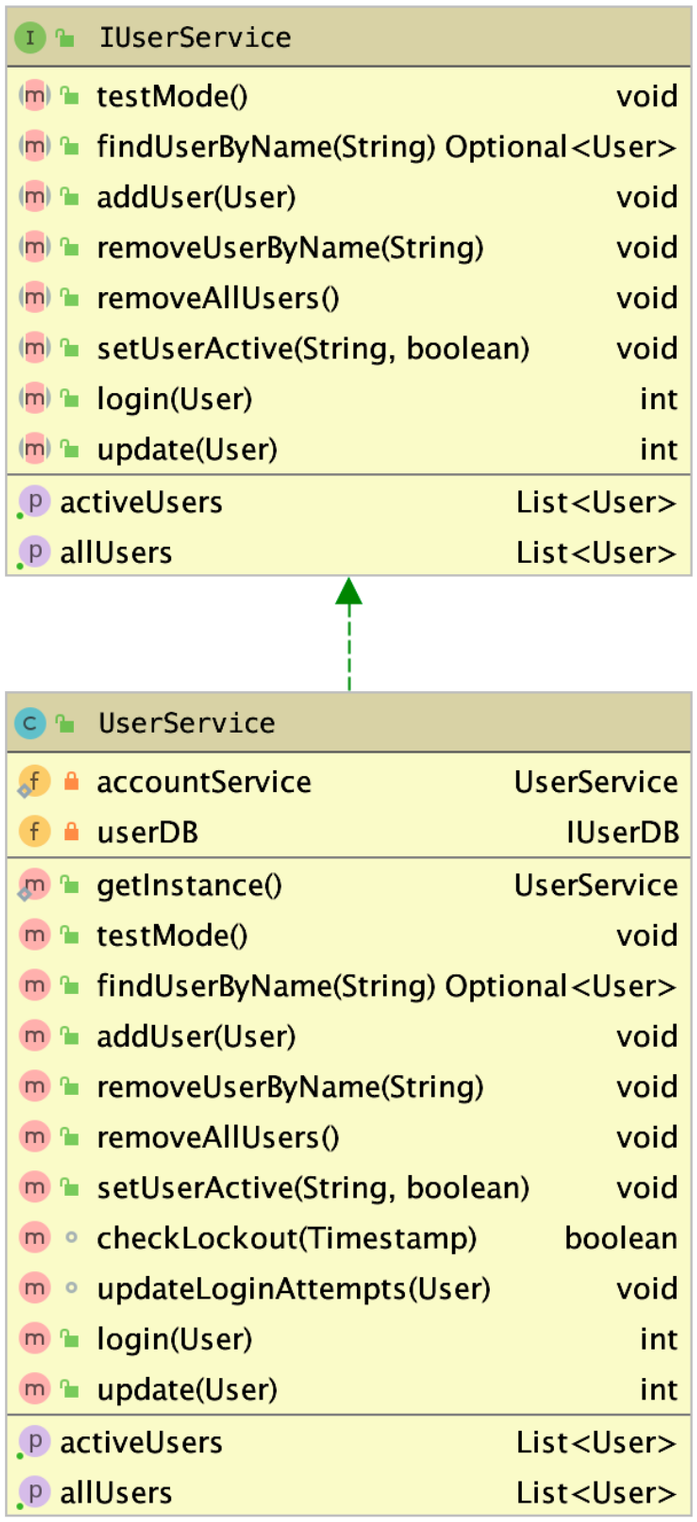
Table
name() String
catalog() String
schema() String
uniqueConstraints() UniqueConstraint[]
indexes() Index[]
Serializable
Entity
name() String
User
hashCode() int
equals(Object) boolean
bio String
isMod boolean
modChannelSet Set<Channel>
active boolean
lockout Timestamp
loginAttempts int
password String
lastName String
email String
channelSet Set<Channel>
avatar Integer
username String
firstName String
Message
toString() String
messageBuilder() MessageBuilder
id int
fromAvatar Integer
content String
fromUsername String
timestamp Timestamp
toChannelId Integer
toAvatar Integer
fromUser User
toUsername String
toUser User
toChannel Channel
ChannelDTO
id int
name String
mods List<String>
participants List<String>
Channel
addMod(User) void
addParticipant(User) void
hashCode() int
equals(Object) boolean
id int
name String
participants Set<User>
mods Set<User>

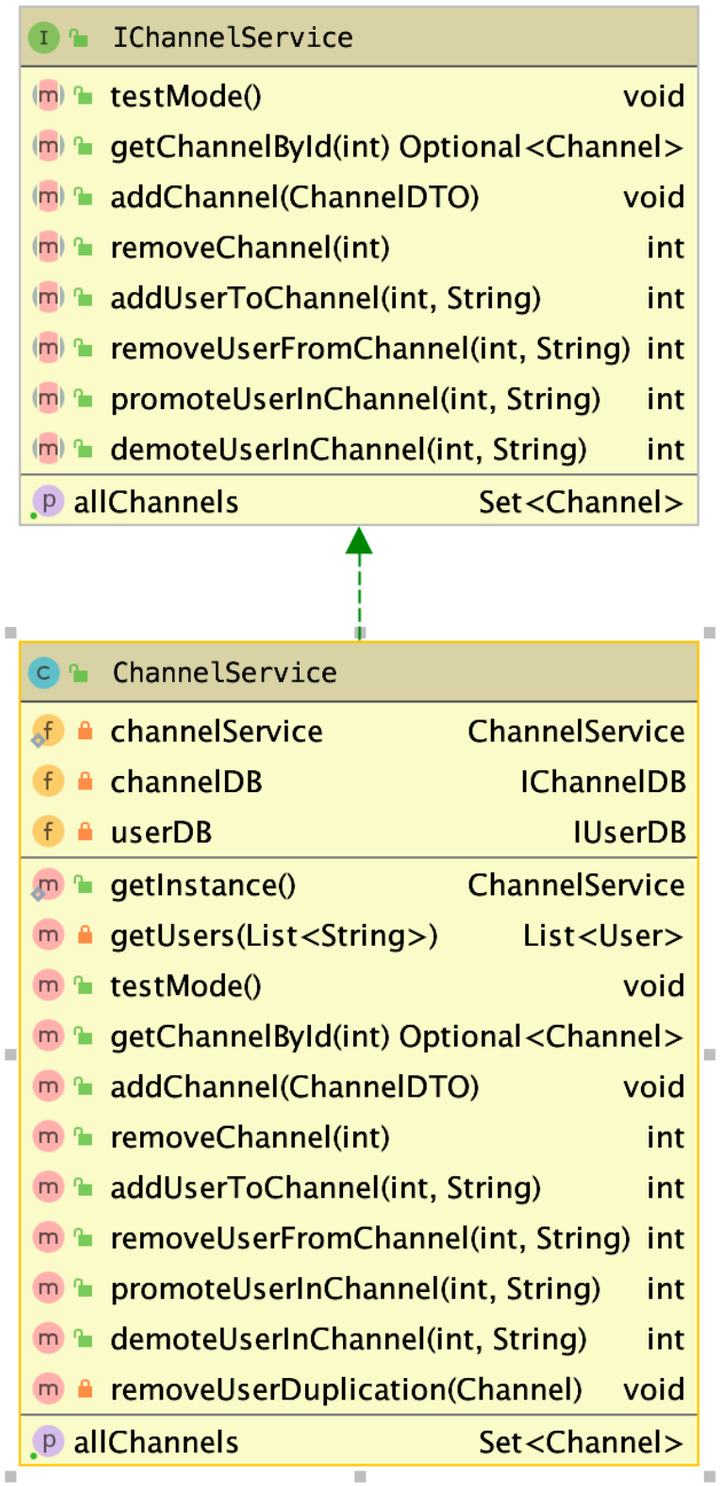
database

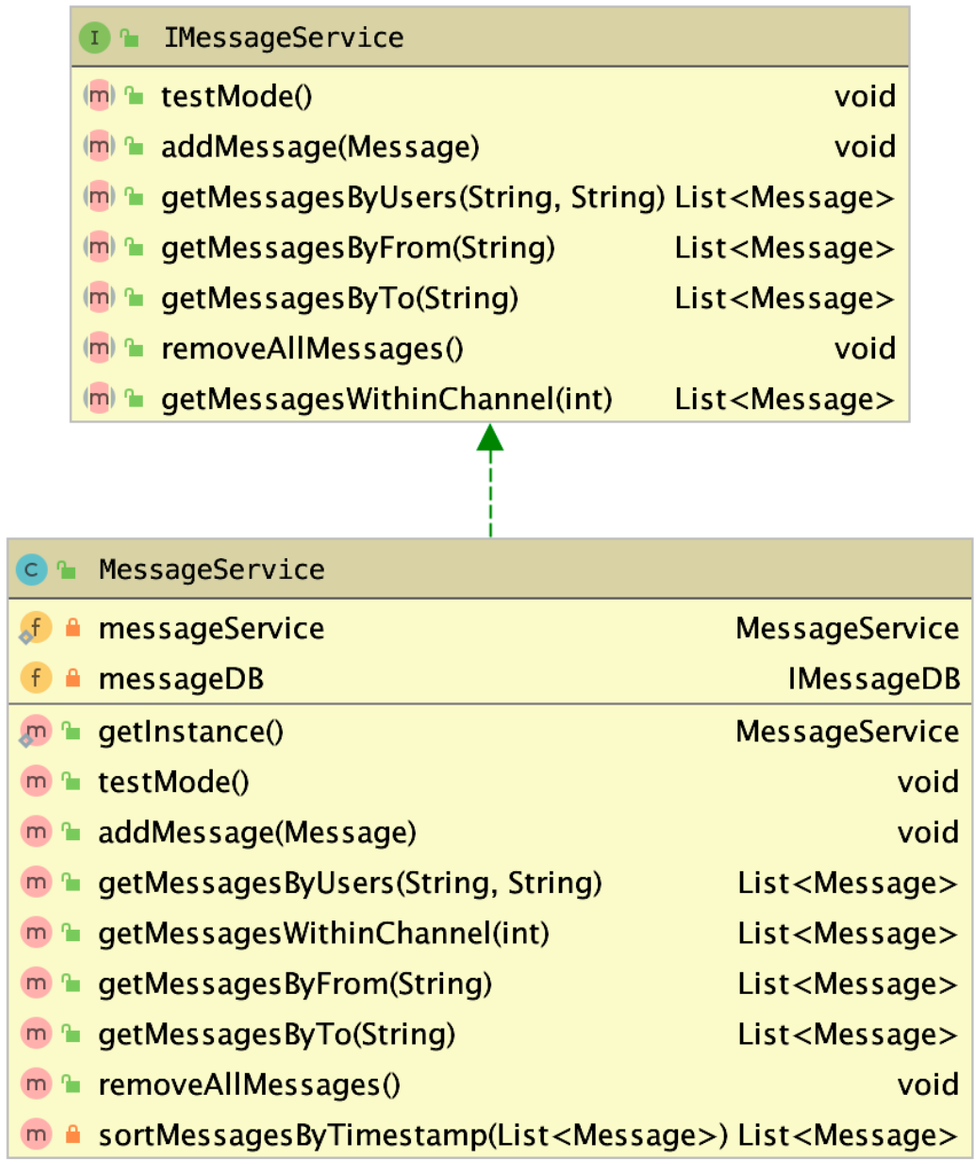

IUserDB
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUser(User) void
removeAllUsers() void
updateUser(User) void
allUsers Set<User>
UserDBInMemory
userDB UserDBInMemory
getInstance() UserDBInMemory
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUser(User) void
removeAllUsers() void
updateUser(User) void
allUsers Set<User>
UserDBHibernate
userDB UserDBHibernate
getInstance() UserDBHibernate
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUser(User) void
removeAllUsers() void
updateUser(User) void
allUsers Set<User>
UserDB
userDB UserDB
config Map<String, String>
logger Logger
getPassword() String
getInstance() UserDB
getUserSet(ResultSet) Set<User>
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUser(User) void
removeAllUsers() void
updateUser(User) void
allUsers Set<User>
connect Connection
UserDBJson
userDB UserDBJson
logger Logger
jsonFile String
getInstance() UserDBJson
saveUsers(Set<User>) void
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUser(User) void
removeAllUsers() void
updateUser(User) void
allUsers Set<User>


IMessageDB
testMode() void
addMessage(Message) void
getMessagesBetweenUsers(String, String) Set<Message>
getMessagesByFrom(String) Set<Message>
getMessagesByToUser(String) Set<Message>
getMessagesByToChannel(int) Set<Message>
removeMessage(Message) void
updateMessage(Message) void
removeAllMessages() void
MessageDBInMemory
messageDB MessageDBInMemory
messageSet Set<Message>
getInstance() MessageDBInMemory
testMode() void
addMessage(Message) void
getMessagesBetweenUsers(String, String) Set<Message>
getMessagesByFrom(String) Set<Message>
getMessagesByToUser(String) Set<Message>
getMessagesByToChannel(int) Set<Message>
removeMessage(Message) void
updateMessage(Message) void
removeAllMessages() void
MessageDBHibernate
messageDB MessageDBHibernate
getInstance() MessageDBHibernate
testMode() void
addMessage(Message) void
getMessagesBetweenUsers(String, String) Set<Message>
getMessagesByFrom(String) Set<Message>
getMessagesByToUser(String) Set<Message>
getMessagesByToChannel(int) Set<Message>
removeMessage(Message) void
updateMessage(Message) void
removeAllMessages() void
IChannelDB
testMode() void
getChannel(int) Optional<Channel>
getChannels(String) Set<Channel>
addChannel(Channel) void
removeChannel(Channel) void
updateChannel(Channel) void
allChannels Set<Channel>
ChannelDBInMemory
channelDBInMemory ChannelDBInMemory
getInstance() ChannelDBInMemory
testMode() void
getChannel(int) Optional<Channel>
getChannels(String) Set<Channel>
addChannel(Channel) void
removeChannel(Channel) void
updateChannel(Channel) void
channelSet Set<Channel>
allChannels Set<Channel>
ChannelDBHibernate
channelDB ChannelDBHibernate
getInstance() ChannelDBHibernate
testMode() void
getChannel(int) Optional<Channel>
getChannels(String) Set<Channel>
addChannel(Channel) void
removeChannel(Channel) void
updateChannel(Channel) void
allChannels Set<Channel>

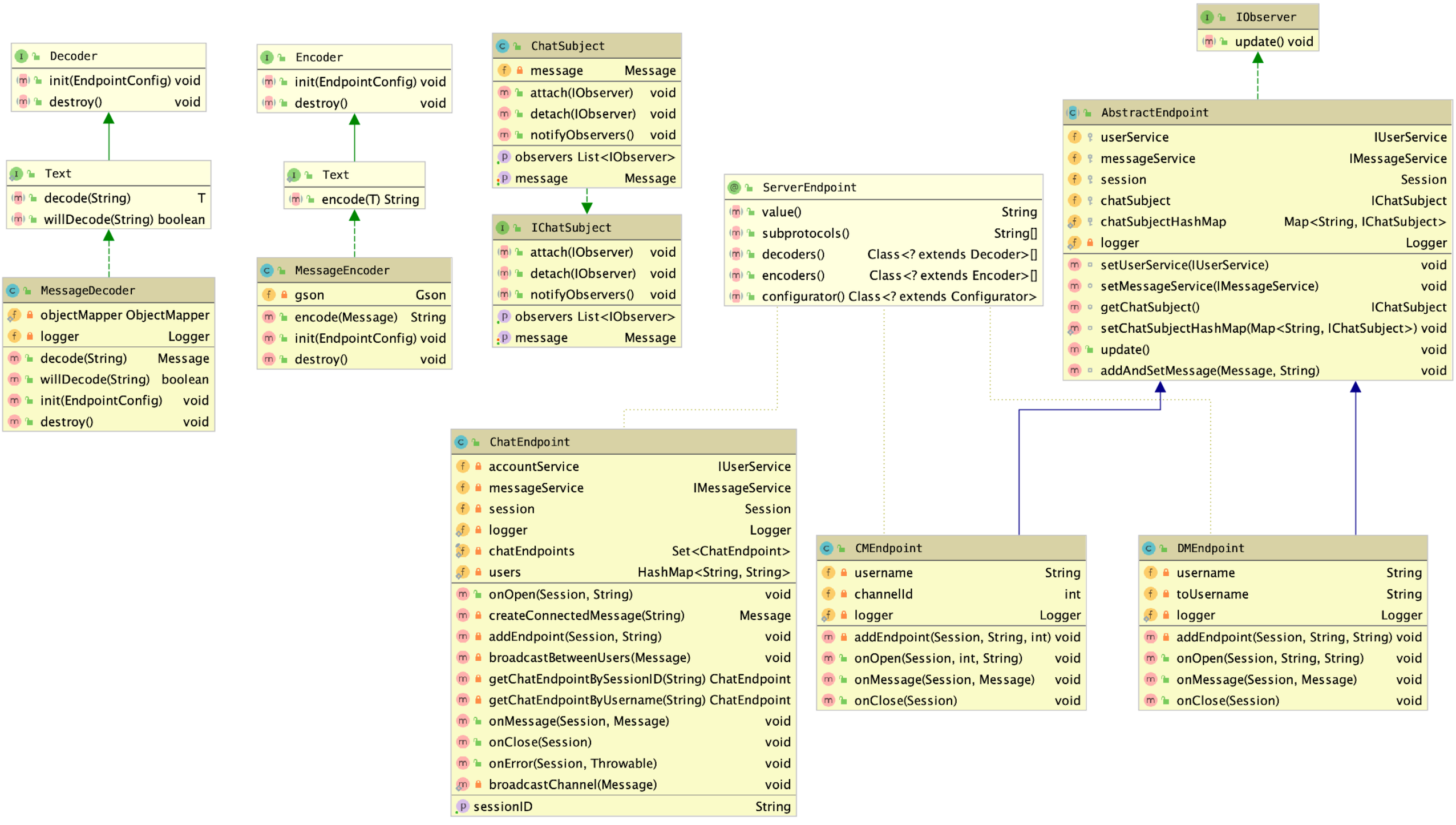
service


IUserService
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUserByName(String) void
removeAllUsers() void
setUserActive(String, boolean) void
login(User) int
update(User) int
activeUsers List<User>
allUsers List<User>
UserService
accountService UserService
userDB IUserDB
getInstance() UserService
testMode() void
findUserByName(String) Optional<User>
addUser(User) void
removeUserByName(String) void
removeAllUsers() void
setUserActive(String, boolean) void
checkLockout(Timestamp) boolean
updateLoginAttempts(User) void
login(User) int
update(User) int
activeUsers List<User>
allUsers List<User>

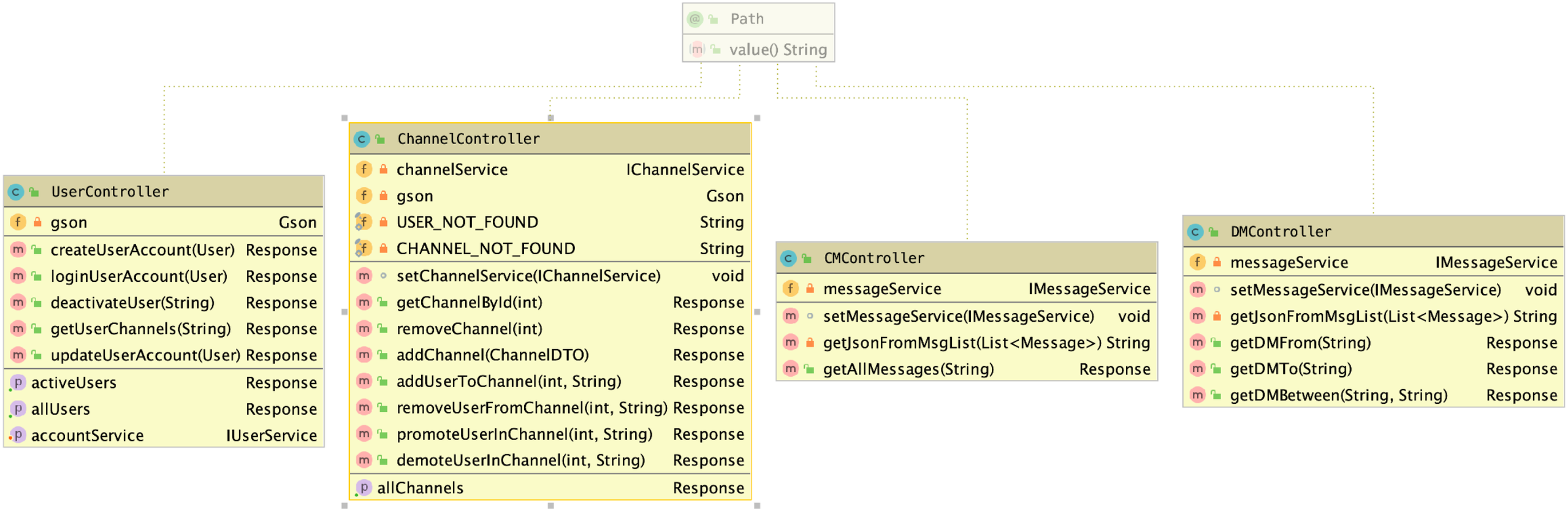

IChannelService
testMode() void
getChannelById(int) Optional<Channel>
addChannel(ChannelDTO) void
removeChannel(int) int
addUserToChannel(int, String) int
removeUserFromChannel(int, String) int
promoteUserInChannel(int, String) int
demoteUserInChannel(int, String) int
allChannels Set<Channel>
ChannelService
channelService ChannelService
channelDB IChannelDB
userDB IUserDB
getInstance() ChannelService
getUsers(List<String>) List<User>
testMode() void
getChannelById(int) Optional<Channel>
addChannel(ChannelDTO) void
removeChannel(int) int
addUserToChannel(int, String) int
removeUserFromChannel(int, String) int
promoteUserInChannel(int, String) int
demoteUserInChannel(int, String) int
removeUserDuplication(Channel) void
allChannels Set<Channel>


IMessageService
testMode() void
addMessage(Message) void
getMessagesByUsers(String, String) List<Message>
getMessagesByFrom(String) List<Message>
getMessagesByTo(String) List<Message>
removeAllMessages() void
getMessagesWithinChannel(int) List<Message>
MessageService
messageService MessageService
messageDB IMessageDB
getInstance() MessageService
testMode() void
addMessage(Message) void
getMessagesByUsers(String, String) List<Message>
getMessagesWithinChannel(int) List<Message>
getMessagesByFrom(String) List<Message>
getMessagesByTo(String) List<Message>
removeAllMessages() void
sortMessagesByTimestamp(List<Message>) List<Message>

websocket


Decoder
init(EndpointConfig) void
destroy() void
Text
decode(String) T
willDecode(String) boolean
MessageDecoder
objectMapper ObjectMapper
logger Logger
decode(String) Message
willDecode(String) boolean
init(EndpointConfig) void
destroy() void
Encoder
init(EndpointConfig) void
destroy() void
Text
encode(T) String
MessageEncoder
gson Gson
encode(Message) String
init(EndpointConfig) void
destroy() void
ChatSubject
message Message
attach(IObserver) void
detach(IObserver) void
notifyObservers() void
observers List<IObserver>
message Message
IChatSubject
attach(IObserver) void
detach(IObserver) void
notifyObservers() void
observers List<IObserver>
message Message
ServerEndpoint
value() String
subprotocols() String[]
decoders() Class<? extends Decoder>[]
encoders() Class<? extends Encoder>[]
configurator() Class<? extends Configurator>
IObserver
update() void
AbstractEndpoint
userService IUserService
messageService IMessageService
session Session
chatSubject IChatSubject
chatSubjectHashMap Map<String, IChatSubject>
logger Logger
setUserService(IUserService) void
setMessageService(IMessageService) void
getChatSubject() IChatSubject
setChatSubjectHashMap(Map<String, IChatSubject>) void
update() void
addAndSetMessage(Message, String) void
ChatEndpoint
accountService IUserService
messageService IMessageService
session Session
logger Logger
chatEndpoints Set<ChatEndpoint>
users HashMap<String, String>
onOpen(Session, String) void
createConnectedMessage(String) Message
addEndpoint(Session, String) void
broadcastBetweenUsers(Message) void
getChatEndpointBySessionID(String) ChatEndpoint
getChatEndpointByUsername(String) ChatEndpoint
onMessage(Session, Message) void
onClose(Session) void
onError(Session, Throwable) void
broadcastChannel(Message) void
sessionID String
CMEndpoint
username String
channelId int
logger Logger
addEndpoint(Session, String, int) void
onOpen(Session, int, String) void
onMessage(Session, Message) void
onClose(Session) void
DMEndpoint
username String
toUsername String
logger Logger
addEndpoint(Session, String, String) void
onOpen(Session, String, String) void
onMessage(Session, Message) void
onClose(Session) void

controller


Path
value() String
UserController
gson Gson
createUserAccount(User) Response
loginUserAccount(User) Response
deactivateUser(String) Response
getUserChannels(String) Response
updateUserAccount(User) Response
activeUsers Response
allUsers Response
accountService IUserService
ChannelController
channelService IChannelService
gson Gson
USER_NOT_FOUND String
CHANNEL_NOT_FOUND String
setChannelService(IChannelService) void
getChannelById(int) Response
removeChannel(int) Response
addChannel(ChannelDTO) Response
addUserToChannel(int, String) Response
removeUserFromChannel(int, String) Response
promoteUserInChannel(int, String) Response
demoteUserInChannel(int, String) Response
allChannels Response
CMController
messageService IMessageService
setMessageService(IMessageService) void
getJsonFromMsgList(List<Message>) String
getAllMessages(String) Response
DMController
messageService IMessageService
setMessageService(IMessageService) void
getJsonFromMsgList(List<Message>) String
getDMFrom(String) Response
getDMTo(String) Response
getDMBetween(String, String) Response