# TeaTalk

#### **Team Team**

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### Meet our Team Team Team Members

#### Team Lead

• Lee Hsun Hsieh

#### Tech Lead

• Xiangnan Chen

#### **Documentation Lead**

• Yi Zhang

#### **Developers**

- Soham Pajwani
- Shuai He
- Jiaxin Wu

## Design Choices

#### Factory design pattern

- Create chat room
- Create message

#### Observer design pattern

• Chat room update information as observers

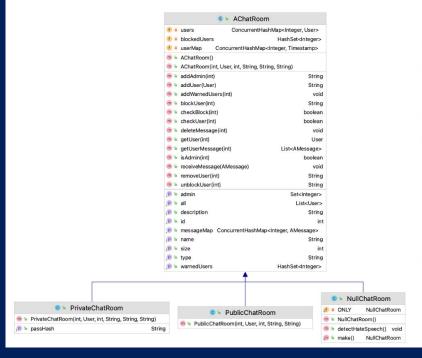
#### Singleton design pattern

Factory and Store Objects

#### Command design pattern

Update user/chat room/message info

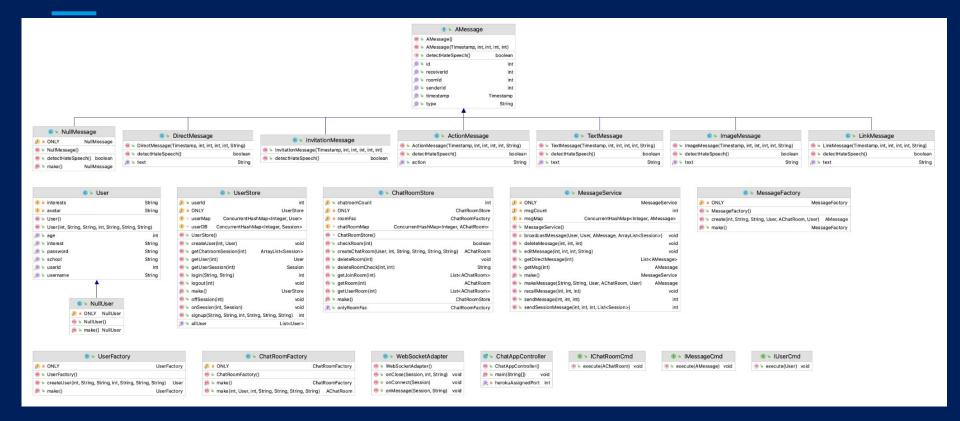
## UML Diagram



© W ChatAppStore		
g) is	ONLY	ChatAppStore
f) û	gson	Gsor
<b>6</b> a	pcs Pro	opertyChangeSupport
B 🖫	ChatAppStore()	
m 🖢	addAdmin(int, int)	String
m 🖢	addUser(int, int)	String
m 🖫	blockUser(int, int)	String
m 🖢	checkAdmin(int, int)	boolear
@ <b>%</b>	checkUser(int, int)	boolear
m 🖫	closeRoom(int, int)	List <session></session>
m 🖫	createRoom(int, int, String, String, String, String	a) in
m 🖫	createUser(int, User)	void
m 強	deleteMessage(User, AChatRoom, User)	void
m 🖫	getRoom(int)	AChatRoon
m 🖫	getUser(int)	Use
m 🖢	getUserList(int)	List <user></user>
m 🗽	login(String, String)	in
m 🖫	make()	ChatAppStore
m 🚡	offSession(int)	void
m 🖫	onSession(int, Session)	void
m 🖢	operateMessage(int, int, int, String)	void
m 🖫	recallMessage(User, AChatRoom, User)	voi
m 'b	removeUser(int, int)	String
m <b>%</b>	sendMessage(String, String, int, int, int)	ir
m 🗽	sendSessionMessage(String, String, int, int, int,	, List <session>) in</session>
m 🖫	signup (String, String, int, String, String, String)	in
m ъ	unblockUser(int, int)	String
P %	roomList	List <achatroom></achatroom>

	ChatRoomAdapter	
e a	chatAppStore	ChatAppStore
m 🦫	ChatRoomAdapter()	
m 🚡	addAdmin(int, int)	String
m 😘	addUser(int, int)	String
m 🚡	blockUser(int, int)	String
m 🖫	checkUser(int, int)	boolean
m 😘	closeRoom(int, int)	String
m a	createRoom(int, int, String, String, String, String)	int
m 😘	createUser(int, User)	void
m 😘	editMessage(int, int, int, String)	void
m 🚡	getChatroom(int)	AChatRoom
m 😘	getDirectMessage(int)	List <amessage></amessage>
m 🚡	getJoinChatRoom(int)	List <achatroom></achatroom>
m 🚡	getUser(int)	User
m 🖫	getUserChatRoom(int)	List <achatroom></achatroom>
m 1	getUserList(int)	List <user></user>
m 😘	getUserMessage(int, int)	List <amessage></amessage>
m 🐿	leaveRoom(int, int)	String
m 🚡	login(String, String)	int
m 😘	operateMessage(int, int, int, String)	void
m 🖢	removeUser(int, int)	String
m 🚡	sendMessage(String, String, int, int, int)	int
m 🖫	sendSessionMessage(String, String, int, int, int, Li	st <session>) int</session>
m '=	signup(String, String, int, String, String, String)	int
m 強	unblockUser(int, int)	String
p 🚡	allUser	List <user></user>
p 2	roomList	List <achatroom></achatroom>

## UML Diagram Cont.



## REST API Design

#### **GET Method:**

- /downloadInfo/userlist
- /downloadInfo/roomlist
- /loadUserChatRoom

#### **POST Method:**

- /login
- /signup
- /leaveChatroom
- /joinChatroom
- /uploadInfo
- /operationToChatroom
- /operationToUser
- /operationToMsg

## TeaTalk Demo

https://chatapp-api-team-team.herokuapp.com/login.html

# Questions?

Thank you!