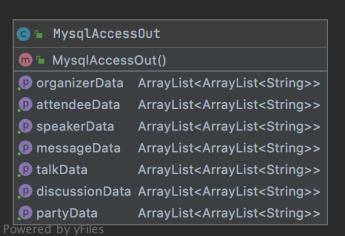
©	MysqlAccessIn	
m •	MysqlAccessIn()	
m •	updateToDBAttendee(int, String, Boolean, String, String, String, String, String, String, String, String)	void
m •	insertToDBAttendee(int, String, String, Boolean, String, String, String, String, String, String, String, String)	void
m •	updateToDBOrganizer(int, String, String, String)	void
m •	insertToDBOrganizer(int, String, String, int, String, String)	void
m •	updateToDBSpeaker(int, String, String, String, String, String, String)	void
m 🚡	insertToDBSpeaker(int, String, String, String, String, String, String, String)	void
m •	updateToDBMessage(int, String, int, int, String, String)	void
m •	insertToDBMessage(int, String, int, int, String, String)	void
m 🚡	updateToDBDiscussion(int, String, String, int, boolean, int, String, boolean)	void
m •	insertToDBDiscussion(int, String, String, int, boolean, int, String, boolean)	void
m •	updateToDBParty(int, String, String, int, boolean, int, boolean)	void
m •	insertToDBParty(int, String, String, int, boolean, int, boolean)	void
m •	updateToDBTalk(int, String, String, int, boolean, int, int, boolean)	void
m •	insertToDBTalk(int, String, String, int, boolean, int, int, boolean)	void



○ □ DBtoManagerUpdater	
	AttendeeTable
(i) a ot	OrganizerTable
	SpeakerTable
⊕ a dt	DiscussionTable
⊕ a tt	TalkTable
⊕ pt	PartyTable
1 mt	MessageTable
🎁 🛔 am	AttendeeManager
(a) a om	OrganizerManager
	SpeakerManager
1 mm	MessageManager
(i) ≜ em	EventManager
m 庙 DBtoManagerUpdater(AttendeeManager, OrganizerMana	ger, SpeakerManager, MessageManager, EventManager)
m [™] UpdateAll()	void
m = UpdateToAm()	void
m 🛍 UpdateToOm()	
m updateToSm()	
m M UpdateToEm()	
m ≜ UpdateToMM()	void

a parakeauer	
⊕ eventManager	EventManager
1 messageManager	MessageManager
attendeeManager	AttendeeManager
1 organizerManager	OrganizerManager
SpeakerManager	SpeakerManager
1 roomManager	RoomManager
notaReader(EventManager, MessageManager, AttendeeManager, OrganizerManager)	nager, SpeakerManager, RoomManager)
👦 🖿 main(EventManager, MessageManager, AttendeeManager, OrganizerManager, S	SpeakerManager, RoomManager) void
	HashMap <string, arraylist<object="">></string,>
m 1 readEventData()	
m ₁ readMessageData()	
m 1 readAttendeeData()	
m ← readOrganizerData()	
m 1 readSpeakerData()	

G •	DataWriter	
#	eventManager EventMar	nager
4	messageManager MessageMar	hager
#	attendeeManager AttendeeMar	hager
#	organizerManager OrganizerMan	hager
#	speakerManager SpeakerMan	hager
#	roomManager RoomMar	hager
⊕ •	DataWriter (Event Manager, Message Manager, Attendee Manager, Organizer Manager, Speaker Manager, Room Manager, Message Me	ger)
,	main (Event Manager, Message Manager, Attendee Manager, Organizer Manager, Speaker Manager, Room Manager)	void
⊕ •	writeToCSV(ArrayList <arraylist<string>>, String, String)</arraylist<string>	
™	writeEventData()	
⊕ ′•	writeMessageData()	
™	writeAttendeeData()	
⊕ ′•	writeOrganizerData()	
™	writeSpeakerData()	
6	writeRoomData()	void

void

	EmToDbUpdate	
41		DiscussionTable
#		PartyTable
41		TalkTable
#	em	EventManager
41	EmToDbUpdate	r(EventManager)
#	updateEvent(in	t) void
#	addNewDiscus	sion(int) void
#	addNewParty(in	nt) void
#	addNewTalk(int	

© 🚡	TypeConverter	
⊕ •	TypeConverter()	
™	strToArrayInt(String)	ArrayList <integer></integer>
⊕ •	strToTimePair(String) Pair <local< th=""><th>DateTime, LocalDateTime></th></local<>	DateTime, LocalDateTime>
⊕ •	arrayIntToStr(ArrayList <integer></integer>) String
⊕ •	timePairToStr(Pair <localdatetim< th=""><th>e, LocalDateTime>) String</th></localdatetim<>	e, LocalDateTime>) String
™	strToTime(String)	LocalDateTime
⊕ •	timeToStr(LocalDateTime)	String
@ •	mapToStr(HashMap <string, strin<="" th=""><th>g>) String</th></string,>	g>) String
⊕ •	strToMap(String)	HashMap <string, string=""></string,>

■ DataAccessOut		
organizerData	ArrayList <arraylist<string>></arraylist<string>	
attendeeData	ArrayList <arraylist<string>></arraylist<string>	
speakerData	ArrayList <arraylist<string>></arraylist<string>	
p messageData	ArrayList <arraylist<string>></arraylist<string>	
📵 talkData	ArrayList <arraylist<string>></arraylist<string>	
discussionData	ArrayList <arraylist<string>></arraylist<string>	
partyData	ArrayList <arraylist<string>></arraylist<string>	

ot OrganizerTab OmToDbUpdater(OrganizerManager		
OmToDbUpdater(OrganizerManager	ie	
	OmToDbUpdater(OrganizerManager)	
updateOrganizer(int) vo	updateOrganizer(int) void	
addNewOrganizer(int) vo	id	

	AmToDbUpdater	
#		AttendeeTable
#	AmToDbUpdater(AttendeeManager)	
#	updateAttendee(int)	
#	addNewAttendee(in	t) void

6	SmToDbUpdater	
#		SpeakerTable
4	SmToDbUpdater(Spea	akerManager)
#	updateSpeaker(int)	
#	addNewSpeaker(int)	

	MmToDbUpdater	
#		MessageTable
4	MmToDbUpdater(MessageManager)	
4	addNowMossago(int)) void



©	MessagePresenter	
⊕ •	MessagePresenter()	
•	notOrganizer()	void
™	notSpeaker()	void
™	notValidEvent()	void
™	notYourEvent()	void
™	announcedIndividual()	void
™	announcedSpeakers()	void
™	announcedAttendants()	void
™	messageSent()	void
™	messageReplied()	void
m •	announcedOrganizer()	void
™	notFriend()	void
™	senderDne()	void
™	receiverDne()	void
™	notInEvent()	void
™	notValidMessageId()	void
™	firstMenu()	void
™	attendeeMenu()	void
™	speakerMenu()	void
™	talkingToYourself()	void
@	attendeeLogin()	void
@	organizerLogin()	void
@	speakerLogin()	void
@ •	attendee Check Message List Received (int, Attendee Manager, Message Manager)	void
@	speakerCheckMessageListReceived(int, SpeakerManager, MessageManager)	void
m •	invaldUsername()	void

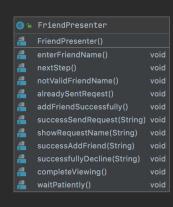
AccountPresenter AccountPresenter() InputSpeakerName() void InputAttendeeName() void InputOrganizerName() void InputOrganizerName() void InputOrganizerName() void InputOrganizerName() void InputPassword() void I			
in inputSpeakerName() void in inputAttendeeName() void in inputAttendeeName() void in inputOrganizerName() void in inputOrganizerName() void in inputPassword() void in inputPassword() void in speakerCreateSuccessfully() void in attendeeCreateSuccessfully() void in attendeeCreateSuccessfully() void in attendeeAccountInfo(String, String, String) void in attendeeAccountInfo(String, String, String) void in enterCurrentPassword() void in updatePasswordSuccess(String) void in repetitivePassword() void in incorrectPassword() void in accountInfo(String) void in accountInfo(String) void	6	AccountPresenter	
inputAttendeeName() void inputOrganizerName() void inputOrganizerName() void inputOrganizerName() void inputPassword() void inputPasswo	@ 1	AccountPresenter()	
inputOrganizerName() void iv vipOrNot() void iv repeatedUsername() void iv repeatedUsername() void iv speakerCreateSuccessfully() void iv speakerCreateSuccessfully() void iv speakerAccountInfo(String, String, String) void iv attendeeAccountInfo(String, String, String) void iv attendeeAccountInfo(String, String, String) void iv enterCurrentPassword() void iv enterNewPassword() void iv updatePasswordSuccess(String) void iv repetitivePassword() void iv incorrectPassword() void iv incorrectPassword() void iv accountInfo(String) void	@ 1	inputSpeakerName()	void
m is vipOrNot() void m repeatedUsername() void m repeatedUsername() void m inputPassword() void m speakerCreateSuccessfully() void m attendeeCreateSuccessfully() void m speakerAccountInfo(String, String, String) void m attendeeAccountInfo(String, String, String) void m enterCurrentPassword() void m enterNewPassword() void m updatePasswordSuccess(String) void m repetitivePassword() void m incorrectPassword() void m accountInfo(String) void	@ 1	inputAttendeeName()	void
m is repeatedUsername() void m inputPassword() void m inputPassword() void m is speakerCreateSuccessfully() void m attendeeCreateSuccessfully() void m is speakerAccountInfo(String, String, String) void m attendeeAccountInfo(String, String, String) void m enterCurrentPassword() void m enterNewPassword() void m updatePasswordSuccess(String) void m repetitivePassword() void m incorrectPassword() void m accountInfo(String) void	@ 1	inputOrganizerName()	void
inputPassword() void speakerCreateSuccessfully() void speakerAccountInfo(String, String, String) void speakerAccountInfo(String, String, String) void stendeeAccountInfo(String, String, String) void senterCurrentPassword() void senterNewPassword() void speakerAccountInfo(String, String) void speakerAccountInfo(String, String) void speakerAccountInfo(String) void speakerAccountInfo(String) void speakerAccountInfo(String) void speakerAccountInfo(String) void speakerAccountInfo(String) void	@ 1	vipOrNot()	void
m is speakerCreateSuccessfully() void m attendeeCreateSuccessfully() void m speakerAccountInfo(String, String, String) void m attendeeAccountInfo(String, String, String) void m enterCurrentPassword() void m enterNewPassword() void m updatePasswordSuccess(String) void m incorrectPassword() void m incorrectPassword() void m accountInfo(String) void	@ 1	repeatedUsername()	void
attendeeCreateSuccessfully() void speakerAccountInfo(String, String, String) void attendeeAccountInfo(String, String, String) void enterCurrentPassword() void enterNewPasswordSuccess(String) void updatePasswordSuccess(String) void repetitivePassword() void incorrectPassword() void accountInfo(String) void	@ 1	inputPassword()	void
speakerAccountInfo(String, String, String) void attendeeAccountInfo(String, String, String) void enterCurrentPassword() void enterNewPassword() void updatePasswordSuccess(String) void repetitivePassword() void incorrectPassword() void accountInfo(String) void	@ 1	speakerCreateSuccessfully()	void
attendeeAccountInfo(String, String, String) void enterCurrentPassword() void enterNewPassword() void updatePasswordSuccess(String) void repetitivePassword() void incorrectPassword() void enterNewPassword() void	@ 1	attendeeCreateSuccessfully()	void
<pre>m = enterCurrentPassword() void m = enterNewPassword() void m = updatePasswordSuccess(String) void m = repetitivePassword() void m = incorrectPassword() void m = accountInfo(String) void</pre>	@ 1	speakerAccountInfo(String, String, String)	void
enterNewPassword() void updatePasswordSuccess(String) void repetitivePassword() void in incorrectPassword() void accountInfo(String) void	@ 1	attendeeAccountInfo(String, String, String)	void
m is updatePasswordSuccess(String) void m is repetitivePassword() void m is incorrectPassword() void m is accountInfo(String) void	@ 1	enterCurrentPassword()	void
m = repetitivePassword() void m = incorrectPassword() void m = accountInfo(String) void	@ 1	enterNewPassword()	void
m incorrectPassword() void m incorrectPassword() void void	@ 1	updatePasswordSuccess(String)	void
accountInfo(String) void	@ 1	repetitivePassword()	void
	@ 1	incorrectPassword()	void
m = waitPatiently()	@ 1	accountInfo(String)	void
w - waiti attentiy()	m 1	waitPatiently()	void

SchedulePresenter

SchedulePresenter()

printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime, LocalDateTime>, HashMap<Integer, Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime, LocalDateTime>, HashMap<Integer, Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, HashMap<Integer, Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, HashMap<Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, HashMap<Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, LocalDateTime>, HashMap<Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, LocalDateTime>, HashMap<Integer>>) void
printOccupancyList(RoomManager, HashMap<Pair<LocalDateTime>, LocalDateTime>, LocalDateTime





SignUpPresenter

SignUpPresenter()

inputChoice() void
inputEventId() void
successfulSignUp() void
successfulCancel() void
eventFulled() void
eventIdInvalid() void
eventNotSigned() void
waitPatiently() void

RequestPresenter
RequestPresenter()
InputSpecialRequest() void
SuccessfulQuit() void
SuccessfulRequest() void
InvalidInput() void
InvalidInput2() void
ChangingState() void
SeeAddressedList() void
SeePendingList() void
SuccessfulAddress() void

SystemPresenter

SystemPresenter()

start() void
showStart1() void
firstMenu() void
switchToO() void
doNotHaveO() void
switchToA() void
invalidInput() void
loading() void

vipPresenter

vipPresenter()

inputUpgradeUsername() void

invalidUpgradeUsername() void

invalidUpgradeUsername() void

invalidDowngradeUsername() void

downgradeSuccessfully(String) void

vipSuccessfully String

RegisterPresenter
RegisterPresenter()
InputSpeakerName() void
InputAttendeeName() void
InputPassword() void
createSuccessfully() void

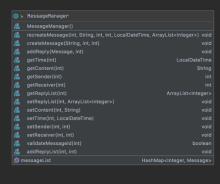
▶ Package ManagerEventPresenter

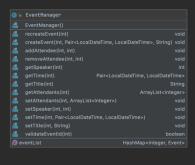
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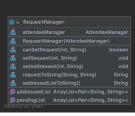
	AttendeeManager	
		RequestManager
0	AttendeeManager()	
	recreateAttendee(int, String, String, Boolean, ArrayList <integer>, ArrayList<integer>, ArrayList<integer>, ArrayList<integer>,</integer></integer></integer></integer>	ArrayList <integer>, HashMap<string, string="">, ArrayList<integer>, ArrayList<integer>, ArrayList<integer>) void</integer></integer></integer></string,></integer>
	organizerAssociation(String, String)	
0	addEvent(int, int)	
00 1		
0 2		
0	setPassword(int, String)	
	validatePassword(int, String)	
0		
00 1		
	isValidUsername(String)	
	attendeeLogin(String, String)	
0 2		
	getMessageListSent(int)	
0 1		
	addMessageListUnread(int, Integer)	
	addMessageListDeleted(int, Integer)	
0		
	getMessageListdeleted(int)	
		HashMap <string, string=""></string,>
	attendeeInfo(int)	String
		ArrayList <pair<string, string="">></pair<string,>
		ArrayList <pair<string, string="">></pair<string,>
⊚ n	mAttendee	

	OrganizerManager	
	OrganizerManager()	
4	recreateOrganizer(int, String, String, int, ArrayList <int< td=""><td>eger>, ArrayList<integer>) voi</integer></td></int<>	eger>, ArrayList <integer>) voi</integer>
	createOrganizer(String, String, AttendeeManager)	
	getEventHostList(int)	ArrayList <integer< td=""></integer<>
	setEventHostList(int, ArrayList <integer>)</integer>	
	getMessageListSent(int)	ArrayList <integer< td=""></integer<>
	setMessageListSent(int, ArrayList <integer>)</integer>	
	validatePassword(int, String)	
	addMessageList(int, Integer)	
	nameTold(String)	
	attendeeLogin(String, String)	
O or	ganizerList	HashMap <integer, organizer<="" td=""></integer,>

	SpeakerManager			
	SpeakerManager()			
	recreateSpeaker(int)			
		ist <intege< th=""><th></th><th></th></intege<>		
4				
í.				
á	addMessageListReceived			
í.	setMessageListReceived() void
ém .	getMessageListReceived(teger>
😰 s	peakerList	HashMap	<integer, spe<="" th=""><th>eaker></th></integer,>	eaker>



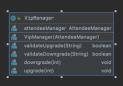


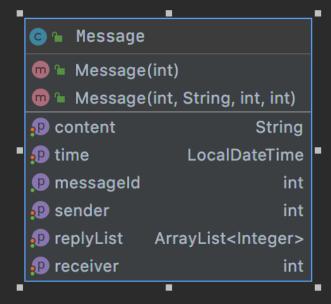


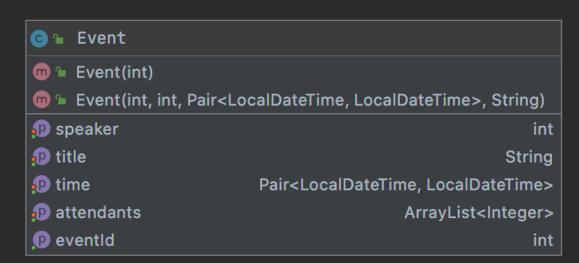
```
    RocaManager

    RomManager()

    createCoupancyList(HashMap-Pair<LocalDateTime, LocalDateTime, LocalDate
```







▶ Package event

▶ Package user

Powered by yFiles

⊚ m SystemBuilder		tem				SignUpSystem			
1 a sp SystemPresenter	👣 🛔 messageMan	nager	N	MessageManager	19 a	roomManager		RoomMana	ger
mm MessageManager	😘 🛔 attendeeMan	ager		ttendeeManager	19 a	eventManager		EventMana	ger
🐌 🛎 em EventManager	😘 🛔 speakerMana	ager		SpeakerManager	19 a	attendeeManager		AttendeeMana	ger
⑥ ≜ rm RoomManager	👣 🛔 organizerMar	nager		rganizerManager		speakerManager		SpeakerMana	ger
1 a srs SpeakerAccountSystem	10 a eventManage			EventManager	19 a			SignUpPresen	
10 a fs FriendSystem	10 messagePres	senter		essagePresenter	19 a			LoginPreser	
1 SignUpSystem	😘 🛔 atdu			AmToDbUpdater		etdu		EmToDbUpda	
⑥ ≜ ss ScheduleSystem				SmToDbUpdater		atdu		AmToDbUpda	
10 a ces CancelEventSystem	⊕ otdu			OmToDbUpdater			nager, EventManager, Attendee		
1 ccs ChangeCapacitySystem	⊕ mtdu			MmToDbUpdater		validateEvent(int)		boole	
10 uds UpDowngradeSystem		tem(MessageManager, AttendeeManager, Spe	eakerManager, OrganizerManager,			cancelledEvent(int)		boole	
10		ounceAttendees(int, String, int)				containEvent(int, int)		boole	
19		ounceAttendant(int, String, int, int)		void		capacityCheck(int)		book	
10 € vp VIPSystem		nounceAttendees(int, String, int)					r <localdatetime, localdatetim<="" td=""><td></td><td></td></localdatetime,>		
10 a dbmu DBtoManagerUpdater		nounceSpeakers(int, String, int)				signUp(int, int)		boole	
ams AccountManageSystem		nounceIndividual(int, String, int, int)		void		cancel(int, int)		book	
19 € rs RequestSystem	message(int,			void		runSignUp(int)			
● loginState boolean	m = reply(int, Stri			void		runCancel(int)			oid
⊕ userRole int ⊕ userID int	markUnread(
switchToO boolean	markArchived			void					
⊕ switchToA boolean	⊕ a deleteMessage			void					
SystemBuilder() SystemBuilder()	□ runMessage(
m = systembulder() m = getType(int) int									
m = gettype(int) int m = setScheduleList() void									
notValid(int) boolean									
attendeeMenu() void									
m a organizerMenu() void									
m a organizerMenu() void m a speakerMenu() void									
m ≜ speakerMenu() void m ኈ run() void									
⊕ speakerMenu() void									
m speakerMenu() void m run() void m sm SpeakerManager									
 speakerMenu() void run() void sm SpeakerManager ls LoginSystem 									
o speakerMenu() void o run() void o sm SpeakerManager o Is LoginSystem o ars AttendeeRegisterSystem									
o speakerMenu() void void sm SpeakerManager lo LoginSystem ars AttendeeRegisterSystem om OrganizerManager									
iii a speakerMenu() void iii run() void iii sm SpeakerManager iii ls LoginSystem iii ars AttendeeRegisterSystem iii om OrganizerManager iii am AttendeeManager									
o speakerMenu() void o run() void o sm SpeakerManager o ls LoginSystem o ars AttendeeRegisterSystem o om OrganizerManager o am AttendeeManager) ∿ FriendSystem			
speakerMenu() void void sm SpeakerManager sm SpeakerManager ls LoginSystem om OrganizerManager am AttendeeMenager am AttendeeManager sm ScheduleSystem sm scheduleSystem sm scheduleSystem sm scheduleSystem sm scheduleSystem				RoomManager	10	attendeeManager		AttendeeManager	
speakerMenu() void void sm SpeakerManager sm SpeakerManager ls LoginSystem ars AttendeeRegisterSystem om OrganizerManager am AttendeeManager sm ScheduleSystem				EventManager	10	attendeeManager organizerManager		OrganizerManager	
speakerMenu() void void sm SpeakerManager lo Is LoginSystem ars AttendeeRegisterSystem om OrganizerManager am AttendeeManager scheduleSystem scheduleSystem sroomManager seventManager seventManager seventManager speakerManager				EventManager SpeakerManager	10	a attendeeManager a organizerManager a speakerManager		OrganizerManager SpeakerManager	
o a speakerMenu() void o a run() void o sm SpeakerManager o ls LoginSystem o ars AttendeeRegisterSystem o om OrganizerManager o am AttendeeManager am AttendeeManager o a speakerManager o a speakerManager o a organizerManager o a organizerManager				EventManager	10 10	attendeeManager organizerManager speakerManager userid		OrganizerManager SpeakerManager int	
speakerMenu() void void sm SpeakerManager ls LoginSystem om OrganizerManager am AttendeeRegisterSystem am AttendeeManager sm OrganizerManager am AttendeeManager sm ScheduleSystem a roomManager sm speakerManager sm scheduleSystem(RoomManager, sm ScheduleSystem(RoomManager, sm ScheduleSystem(RoomManager, sm ScheduleSystem(RoomManager, scheduleSystem(RoomManager, scheduleSystem(RoomManager,				EventManager SpeakerManager OrganizerManager	19 19 19 00	attendeeManager sorganizerManager speakerManager suserid FriendSystem(Attender	eManager, OrganizerManager, 1	OrganizerManager SpeakerManager int SpeakerManager, int)	
speakerMenu() void void srun() void sm SpeakerManager ls LoginSystem om OrganizerManager am AttendeeRegisterSystem om OrganizerManager am AttendeeManager seventManager speakerManager speakerManager speakerManager sopeakerManager	calDateTime, LocalDate	Time>, HashMap <integer, integer="">>, Pair<loc< td=""><td></td><td>EventManager SpeakerManager OrganizerManager boolean</td><td>9 9 9 0</td><td>attendeeManager conganizerManager speakerManager speakerManager suserid FriendSystem(Attende) main(AttendeeManage</td><td>r, OrganizerManager, SpeakerM</td><td>OrganizerManager SpeakerManager int SpeakerManager, int) Manager, int)</td><td></td></loc<></integer,>		EventManager SpeakerManager OrganizerManager boolean	9 9 9 0	attendeeManager conganizerManager speakerManager speakerManager suserid FriendSystem(Attende) main(AttendeeManage	r, OrganizerManager, SpeakerM	OrganizerManager SpeakerManager int SpeakerManager, int) Manager, int)	
speakerMenu() void void sun() void	calDateTime, LocalDate ime, LocalDateTime>, ir	Time>, HashMap <integer, integer="">>, Pair<loca nt)</loca </integer,>	calDateTime, LocalDateTime>, int)	EventManager SpeakerManager OrganizerManager boolean boolean	9 9 9 0	attendeeManager sorganizerManager speakerManager suserid FriendSystem(Attender	r, OrganizerManager, SpeakerM	OrganizerManager SpeakerManager int SpeakerManager, int)	
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▶ Package accountManagement