ClubEventList
- context: Activity
- clubEvents: List<String>

+ getView(position: int, convertView: View, parent: ViewGroup): View

ClubEvent
- eventType: Event
- participants: ArrayList<User>
- name: String
- maxMembers: int

+ getEventType(): Event
+ getName(): String
+ getSize(): int
+ addParticipant(participant: User): boolean

MainActivity
- isAClub: Switch
- email: EditText
- password: EditText
- username: EditText
- result: EditText
- success: boolean

OnCreate(savedInstanceState: Bundle): void
+ Register_Email_Click(view: View): void
+ to_Login_Click(view: View): void
+ isEmailValid(email: EditText): boolean
+ isPasswordValid(password: EditText): boolean
+ isUsernameValid(username: EditText): boolean
+ UploadUser(account: Account): void

LoginActivity
- password: EditText
- username: EditText
- result: EditText
- rolls: String[]
- completed: boolean
---
onCreate(savedInstanceState: Bur
+ Login_Click(view: View): void
+ Back_Click(view: View): void
- FindUser(rollsIndex: int): void
- login(roll: String): void

Event
- title: String
- age: int
- level: String
- pace: int

+ getTitle(): String
+ getLevel(): String
+ getAge(): int
+ getPace(): int
+ setTitle(new_title: String): void
+ setLevel(new_level: String): void
+ setAge(new_age: int): void
+ setPace(new_pace: int): void

EventManager
- databaseEvents: DatabaseReference
- listViewEvents: ListView
- events: List<Event>

OnCreate(savedInstanceState: Bundle): void
+ onStart(): void
+ remove(title: String): void
+ deleteEvent(title: String): void
+ backButtonOnClick(view: View): void
+ newEventButtonOnClick(view: View): void
+ editEventButtonOnClick(view: View): void

AdminActivity
OnCreate(savedInstanceState: Bundle): void
+ AccountManagerOnClick(view: View): void
+ EventManagerOnClick(view: View): void

<<Abstract>> Account
- username: String
- email: String
- password: String
- roll: String

+ getEmail(): String
+ getPassword(): String
+ getUsername(): String
+ getRoll(): String

Database

ClubManager
- databaseClubs: DatabaseReference
- listViewClubs: ListView
- clubs: List<Club>

OnCreate(savedInstanceState: Bundle): void
onStart(): void
- remove(title: String): void
- deleteClub(userName: String): void
- backButtonOnClick(view: View): void

EventList
- context: Activity
- events: List<Event>

+ getView(position: int, convertView: View, parent: ViewGroup): View

ClubList
- context: Activity
- clubs: List<Club>

+ getView(position: int, convertView: View, parent: ViewGroup): View

Admin

Club

User

UserActivity
- username: EditText

OnCreate(savedInstanceState: Bundle): void

UpdateEvent
- title: EditText
- age: EditText
- level: EditText
- pace: EditText
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onCreate(savedInstanceState: Bundle): void
+ updateButtonOnClick(view: View): void
+ isTitleValid(title: EditText): boolean
+ isAgeValid(age: EditText): boolean
+ isPaceValid(pace: EditText): boolean
+ isLevelValid(level: EditText): boolean
+ backButtonOnClick(view: View): void

UserList
- context: Activity
- users: List<User>

+ getView(position: int, convertView: View, parent: ViewGroup): View

ClubEventCreator
- clubName: String
- selectedEventType: Event
- eventSpinner: Spinner
- selectedEventName: String
- memberNum: EditText
- eventName: EditText
- eventFee: EditText

OnCreate(savedInstanceState: Bundle): void
+ backButtonOnClick(view: View): void
# onStart(): void
- storeSelectedSpinnerValue(): void
+ submitOnClick(view: View): void
- isTitleValid(title: EditText): boolean
- isFeeValid(fee: EditText): boolean
- isLimitValid(limit: EditText): boolean
- uploadClubEvent(event: ClubEvent): void

ClubActivity
- clubname: EditText
- name: String
- listViewEvents: ListView
- eventsNames: List<String>
- databaseEvents: DatabaseRefrence

OnCreate(savedInstanceState: Bundle): void
onStart(): void
+ newClubEventButtonClick(view: View)
+ membersOnClick(view: View)
+ requestOnClick(view: View)
+ remove(name: String)
- deleteEvent(title: String)

ClubEventEditor
- clubName: String
- selectedEventType: Event
- eventSpinner: Spinner
- selectedEventName: String
- memberNum: EditText
- eventName: EditText
- eventFee: EditText

OnCreate(savedInstanceState: Bundle): void
+ backButtonOnClick(view: View): void
# onStart(): void
- storeSelectedSpinnerValue(): void
+ updateButtonOnClick(view: View): void
- isFeeValid(fee: EditText): boolean
- isLimitValid(limit: EditText): boolean
- uploadClubEvent(event: ClubEvent): void

EventCreator
- title: EditText
- age: EditText
- level: EditText
- pace: EditText
---
onCreate(savedInstanceState: Bundle): void
+ createButtonOnClick(view: View): void
+ isTitleValid(title: EditText): boolean
+ isAgeValid(age: EditText): boolean
+ isPaceValid(pace: EditText): boolean
+ isLevelValid(level: EditText): boolean
+ backButtonOnClick(view: View): void
+ uploadEvent(event: Event): void

ClubRequestManagerActivity
- databaseUsers: DatabaseReference
- listViewUsers: ListView
- users: List<User>
- clubName: Stringin

OnCreate(savedInstanceState: Bundle): void
onStart(): void
+ deny(name: String): void
+ accept(name: String): void
+ acceptUser(name: String): void
+ denyUser(username: String): void
- removeUser(username: String): void
+ backButtonOnClick(view: View): void

ClubMemberListActivity
- databaseUsers: DatabaseReference
- listViewUsers: ListView
- users: List<User>
- clubName: String
- t: boolean

OnCreate(savedInstanceState: Bundle): void
onStart(): void
+ deny(name: String): void
+ accept(name: String): void
+ acceptUser(name: String): void
+ denyUser(username: String): void
- removeUser(username: String): void
+ backButtonOnClick(view: View): void

ClubVerificationDialogue
- listener: CVDialogListener
- phone: EditText
- fullName: EditText
- socialLink: EditText
- button: Button

+ onCreateDialog(savedInstanceState: Bundle): Dialog
- isPhoneNumValid(phoneNum: String): boolean
- isNameValid(name: String): boolean
- isLinkValid(link: String): boolean
+ onAttach(context: Context): void

DenyAcceptDialogFragment
- listener: DADialogListener

+ onCreateDialog(savedInstances: Bundle): Dialog
+ onAttach(context: Context): void

<<Interface>> CVDialogListener
- storeClub(phoneNum: String, fullName: String, socialLink: String): void

<<Interface>> DADialogListener
- deny(name: String): void
- accept(name: String): void

ConfirmDeleteDialogFragment
- listener: CDDialogListener

+ onCreateDialog(savedInstanceState: Bundle): Dialog
+ onAttach(context: Context): void

<<Interface>> CDDialogListener
- remove(name: String): void