Account Package - Class Overview and Documentation

Relationships Between Classes

- **SignInGUI**, **ProfileGUI**, and **RequestVerificationGUI** are GUI classes responsible for user interaction. Each reacts to user actions and invokes appropriate controller methods.
- **AccountController** is the mediator between the UI and the data layer. It processes GUI requests (sign-in, profile editing, verification) and delegates to the appropriate logic.
- **AccountEntity** is the core data model representing all user accounts and their properties.
- **VenueEntity** extends account functionality with venue-specific business fields and is handled by the same controller.
- **AccountController** interacts with both `AccountEntity` and `VenueEntity` and is responsible for creating, editing, deleting, and retrieving these models.
- **ProxyDBController** is used internally by `AccountController` to read/write account-related data from/to the database layer.

AccountEntity

Attributes

- `id: int` — Unique identifier for the account.
- `email: string` — User's email used for login.
- `name: string` — Full name or username of the user.
- `password: string` — Encrypted password string.
- `profilePictureUrl: string` — URL to the profile picture.
- `bio: string` — Personal bio or description.
- `preferences: string[]` — List of user-selected categories or vibes.
- `isVerified: boolean` — Indicates if account has been verified.
- `likedEventsIds: int[]` — List of event IDs liked by the user.
- `followedAccountsIds: int[]` — List of followed users or venues.

Methods

- `AccountEntity(...)` — Constructs a full user account object with all above attributes.

VenueEntity

Attributes

- `location: string` — Address of the venue.
- `taxIdentificationNumHashed: string` — Hashed tax ID for legal verification.
- `businessRegistrationNumHashed: string` — Hashed business ID for registry verification.

Methods

- `VenueEntity(...)` — Constructs a venue entity with extended venue-specific attributes.

AccountController

Methods

- `AccountController()` — Initializes the controller instance.
- `login(email: string, password: string)` — Authenticates user credentials.
- `createAccount(...)` — Creates a registered user account.
- `createVenueAccount(...)` — Registers a venue with business information.
- `editProfile(...)` — Updates profile fields like bio, name, or preferences.
- `editVenueProfile(...)` — Updates venue details and documents.
- `deleteProfile(accountId: int)` — Deletes account by ID.
- `followUser(accountId: int, followedUserId: int)` — Adds a user to follow list.
- `followVenue(accountId: int, followedVenueId: int)` — Adds a venue to follow list.
- `requestVerification(accountId: int)` — Initiates verification request for a registered user.
- `getAccount(accountId: int)` — Retrieves user entity by ID.
- `getVenue(venueId: int)` — Retrieves venue entity by ID.

SignInGUI

Attributes

- `btnSignIn: Button` — Button to trigger login.
- `btnHome: Button` — Navigation to home.
- `btnSearch: Button` — Navigation to search.
- `btnProfile: Button` — Navigation to profile.

Methods

- `SignInGUI()` — GUI setup for login interface.
- `btnSignInPress()` — Triggers login process.
- `btnHomePress()` — Navigates to home screen.
- `btnSearchPress()` — Navigates to search screen.
- `btnProfilePress()` — Navigates to profile screen.

RequestVerificationGUI

Attributes

- `verificationStatus: string` — Current verification state.
- `uploadedFiles: File[]` — Uploaded documents.
- `btnUploadFiles: Button` — Upload file button.
- `btnEditUploadFiles: Button` — Button to modify previously uploaded files.
- `btnNewVerificationRequest: Button` — Initiates a verification request.
- `btnHome: Button` — Navigation to home.
- `btnSearch: Button` — Navigation to search.
- `btnProfile: Button` — Navigation to profile.

Methods

- `RequestVerificationGUI(account: AccountEntity)` — Initializes with bound account.
- `updateInterfaceBasedOnrStatus(status: string)` — Updates UI based on verification progress.
- `btnUploadFilesPress()` — Opens file browser and stores upload.
- `btnEditUploadFilesPress()` — Opens interface to re-upload or delete files.
- `btnNewVerificationRequestPress()` — Sends verification request.
- `btnHomePress()` — Navigates to home.
- `btnSearchPress()` — Navigates to search.
- `btnProfilePress()` — Navigates to profile.

ProfileGUI

Attributes

- `fldBio: TextField` — Editable bio section.

- `imgProfilePicture: Image` — Profile picture display.
- `imgVerifiedIcon: Image` — Badge showing verification.
- `accountFollowers: int` — Count of followers.
- `accountFollowing: int` — Count of following accounts.
- `postBox: Image[]` — Preview of user's posted content.
- `btnEditProfile: Button` — Edit profile button.
- `btnEditPreferences: Button` — Change preference categories.
- `btnReviewedEvents: Button` — View reviews written by user.
- `btnOrganisedEvents: Button` — View events user manages.
- `btnCreateEvent: Button` — Create new event.
- `btnRequestVerification: Button` — Request or manage verification.
- `btnHome: Button` — Go to home.
- `btnSearch: Button` — Go to search.
- `btnProfile: Button` — Reload or redirect to profile.

Methods

- `ProfileGUI(account: AccountEntity)` — Displays full profile for given account.
- `btnEditProfilePress()` — Opens editable form for name/bio/picture.
- `btnEditPreferencesPress()` — Opens list of preference categories to edit.
- `btnReviewedEventsPress()` — Shows events reviewed by this user.
- `btnOrganisedEventsPress()` — Lists events this account manages.
- `btnCreateEventPress()` — Redirects to create-event form.
- `becomeVerifiedPressed(account: AccountEntity)` — Triggers verification process.
- `btnProfilePress()` — Reloads user profile.
- `btnSearchPress()` — Redirects to search page.
- `btnHomePress()` — Redirects to home page.