Review Package - Class Overview and Documentation

Relationships Between Classes

- **ReviewGUI** is the front-end class that handles user input and UI events for submitting, editing, or deleting a review.
- **ReviewController** acts as the middle layer between the UI and the database. It processes requests from ReviewGUI and calls the appropriate functions in ReviewService (or DBProxy).
- **ReviewEntity** is the data model representing a review. It holds information such as rating, comment, media, and the associated event/account.
- **DBProxy** (not analyzed in detail) is used by ReviewController to interact with the database. ReviewController calls DBProxy to persist and retrieve data.

ReviewEntity

Attributes

- `id: int` — Unique identifier for the review.
- `accountId: int` — ID of the user who wrote the review.
- `eventId: int` — ID of the event being reviewed.
- `rating: int` — Rating score (e.g., 4 stars).
- `comment: String` — Textual review content.
- `media: String` — Path to any uploaded media (image, video).
- `creationDate: DateTime` — Date and time when the review was created.
- `lastEditDate: DateTime` — Date and time when the review was last edited.

Methods

- `getLastEditDate(): DateTime` — Returns the timestamp of the last time the review was edited.
- `setLastEditDate(date: DateTime): void` — Updates the last edit timestamp.
- `getCreationDate(): DateTime` — Returns the creation date of the review.
- `setCreationDate(creationDate: DateTime): void` — Sets the creation date of the review.
- `setComment(comment: string): void` — Sets the textual content of the review.
- `getComment(): string` — Returns the comment text.
- `getMedia(): string` — Returns the path for the attached media.

- `setMedia(media: string[]): void` — Sets the list of attached media files paths.
- `setRating(rating: int): void` — Sets the numerical star rating.
- `getRating(): int` — Returns the current rating.
- `getId(): int` — Returns the review's unique identifier.
- `setId(id: int): void` — Sets the review's unique identifier.
- `setEventId(eventId: int): void` — Sets the associated event's ID.
- `getEventId(): int` — Returns the ID of the reviewed event.
- `setAccountId(accountId: int): void` — Sets the account ID of the reviewer.
- `getAccountId(): int` — Returns the account ID of the user who wrote the review.

ReviewController

Attributes

- `reviewService: ReviewService` — Link to the service layer that performs logic and DB operations.

Methods

- `createReview(review: ReviewEntity): void` — Adds a new review.
- `editReview(review: ReviewEntity): void` — Updates an existing review.
- `deleteReview(reviewId: int): void` — Removes a review by ID.
- `getEventReviews(eventId: int): List<ReviewEntity>` — Returns all reviews for a specific event.
- `getAccountReviews(accountId: int): List<ReviewEntity>` — Returns all reviews posted by a specific user.

ReviewGUI

Attributes

- `lblEventTitle: Label` — Displays the event's title.
- `lblEventLocation: Label` — Displays the event's location.
- `lblEventDateTime: Label` — Displays date and time.
- `imgEventCreator: Image` — Event creator's profile image.
- `lblAverageRating: Label` — Shows average rating for the event.
- `lblTotalReviews: Label` — Shows the total review score.
- `barRatingDistribution: List<RatingBar>` — Shows breakdown of all ratings.

- `fldRating: Field` — Star-based rating field (1 to 5).

- `fldComment: Textarea` — Area to write textual feedback.

- `btnMediaUpload: Button` — Button to upload images/videos.

- `btnSubmitReview: Button` — Button to submit a new review.

- `lblThankYouMessage: Label` — Shows success message after submission.

- `btnEditReview: Button` — Opens a form to edit an existing review.

- `btnMediaEdit: Button` — Allows editing uploaded media.

- `btnSaveEditsReview: Button` — Saves the updated review.

- `btnDeleteReview: Button` — Deletes a review.

- `btnHome: Button` — Navigates to home screen.

- `btnSearch: Button` — Opens search functionality.

- `btnProfile: Button` — Navigates to profile.

Methods

- `selectRating(stars: int): void` — Handles rating selection.

- `enterComment(text: string): void` — Stores the written comment.

- `btnMediaUploadPress(): void` — Handles media file upload.

- `btnSubmitReviewPress(): void` — Submits review to controller.

- `btnEditReviewPress(): void` — Prepares GUI for editing review.

- `btnSaveEditsPress(): void` — Saves review changes.

- `btnEditMediaPress(): void` — Triggers media re-upload/edit.

- `btnDeleteReviewPress(): void` — Calls controller to delete review.

- `validateReviewData(): bool` — Checks if input is valid.

- `btnHomePress(): void` — Redirects to home.

- `btnSearchPress(): void` — Initiates search screen.

- `btnProfilePress(): void` — Opens user profile page.