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Class staffTestable

java.lang.Object  
application.staffTestable

public class **staffTestable**  
extends [Object](#)

StaffTestable provides isolated, testable logic used by the Staff role without any JavaFX dependencies. This class extracts core business logic from the Staff UI so it can be easily tested with JUnit. Author: Muzzamil Jolaade Version: 2025-04-11

Constructor Summary

Constructors

Constructor	Description
<b>staffTestable</b> (databasePart1.DatabaseHelper database operations.	Constructs a testable logic class for staff

Method Summary

All Methods   Instance Methods   Concrete Methods

Modifier and Type	Method	Description
boolean	<b>deleteQuestionOrAnswer</b> ( <a href="#">Object</a> selectedItem)	Deletes a question or answer based on the selected object.
boolean	<b>deleteReviewByIndex</b> ( <a href="#">List</a> <application.reviews> revi	Deletes a review from the given list by index.

int index)

<b>List</b> <application.question>	<b>getAllQuestionsWithAnswers</b>	Returns all questions and their answers.
<b>List</b> <application.reviews>	<b>getAllReviews()</b>	Returns all reviews from the database.
<b>List &lt;String &gt;</b>	<b>getStudentReviewerMessages</b>	Returns a list of unique private messages exchanged between students and reviewers only.
boolean	<b>sendMessageToInstructor</b> ( <b>String</b> sender, <b>String</b> receiver, <b>String</b> messageBody)	Sends a private message from one user to another.

### Methods inherited from class java.lang.Object

equals , getClass , hashCode , notify , notifyAll , toString , wait , wait , wait

## Constructor Details

### staffTestable

```
public staffTestable(databasePart1.DatabaseHelper databaseHelper)
```

Constructs a testable logic class for staff operations.

#### Parameters:

databaseHelper - reference to the shared DatabaseHelper

## Method Details

### deleteReviewByIndex

```
public boolean deleteReviewByIndex(List <application.reviews> reviews,  
                                   int index)  
    throws SQLException
```

Deletes a review from the given list by index.

**Parameters:**

reviews - list of reviews

index - index to delete

**Returns:**

true if successfully deleted

**Throws:**

SQLException - if database error occurs

### deleteQuestionOrAnswer

```
public boolean deleteQuestionOrAnswer(Object selectedItem)  
    throws SQLException
```

Deletes a question or answer based on the selected object.

**Parameters:**

selectedItem - object selected (question or answer)

**Returns:**

true if deletion successful, false otherwise

**Throws:**

SQLException - if database error occurs

## sendMessageToInstructor

```
public boolean sendMessageToInstructor(String sender,
                                       String receiver,
                                       String messageBody)
                                       throws SQLException
```

Sends a private message from one user to another.

**Parameters:**

sender - username of sender

receiver - username of receiver (instructor)

messageBody - content of the message

**Returns:**

true if successfully sent

**Throws:**

`SQLException` - if database error occurs

## getAllReviews

```
public List <application.reviews> getAllReviews()
                                       throws SQLException
```

Returns all reviews from the database.

**Returns:**

list of reviews

**Throws:**

`SQLException` - if database error occurs

## getAllQuestionsWithAnswers

```
public List <application.question> getAllQuestionsWithAnswers()  
                                     throws SQLException
```

Returns all questions and their answers.

**Returns:**

list of questions with answers inside them (not flattened)

**Throws:**

`SQLException` - if database error occurs

### getStudentReviewerMessagesOnly

```
public List <String > getStudentReviewerMessagesOnly()  
                                     throws SQLException
```

Returns a list of unique private messages exchanged between students and reviewers only.

**Returns:**

list of formatted message strings

**Throws:**

`SQLException` - if database or user role retrieval fails