Demo: Generating code from Comments using GitHub Copilot

This demo helps you to understand how to use comments to generate code in applications.

Prerequisites

- VS Code
- GitHub Copilot Extension for VS Code
- GitHub Copilot subscription
- NodeJS 18 or later
- Book API application

Generate code from comments

- 1. Open the book-api application using VS Code.
- 2. Open the bookModel.js file and type the following comment at the end of the class after the deleteBook method.

```
// Method to get the list of books based on the category
```

3. After you type the comment, press Enter key. The GitHub Copilot Extension will start generating suggestions based on the comment.

- 4. Press Tab key to accept the complete suggestion or press Ctrl + Right Arrow to accept word by word .Press Esc to discard the suggestion.
- 5. If you hover the mouse on top of the suggestion it will show the pop up on which you can click on the left or right arrows to navigate between suggestions.

```
static getBooksByCategory(category, callback) { You, 1 second ago • Uncommits

db.all('SELECT * FROM books WHERE category = ?', [category], (err, rows) => {
    callback(err, rows);
});
}
```

6. Click on the right arrow in the popup to navigate to the next suggestion or press Tab to accept the current suggestion.

```
static getBooksByCategory(category, callback) {
    const sql = 'SELECT * FROM books WHERE category = ?';
    db.all(sql, [category], (err, rows) => {
        callback(err, rows);
    });
}
```

7. Alternatively, you can press Ctrl + Enter to open the suggestions list.

🗋 GitHub Copilot Suggestions for bookModel.js 😵



GitHub Copilot Suggestions

5 Suggestions

Suggestion 1

```
class Book {
    constructor(id, title, author, publishedY
ear, category, language) {
        this.id = id;
        this.title = title;
        this.author = author;
        this.publishedYear = publishedYear;
        this.category = category;
        this.language = language;
    }
    static createTable() {
        const sql = `
            CREATE TABLE IF NOT EXISTS books
                id INTEGER PRIMARY KEY AUTOIN
CREMENT,
                title TEXT NOT NULL,
                author TEXT NOT NULL,
                publishedYear INTEGER NOT NUL
L,
                category TEXT NOT NULL,
```

8. You can scroll down through the suggestions and accept any one suggestion you want.