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**Student IntelliSense Search Assignment**

Creating and Implementing [ADO.NET](http://ADO.NET), REST API, and a Front-End Client

**Objective:**  
The purpose of this assignment is to provide you with hands-on experience of the end-to-end process of creating a database, developing a REST API to interact with that database, and implementing a client-side application to fetch and display the data. You'll be using [ADO.NET](http://ADO.NET) for the database layer, [ASP.NET](http://ASP.NET) for the API layer, and HTML with jQuery for the client-side interface. A special emphasis will be on implementing IntelliSense-style searching on the client-side.  
  
**Requirements:**  
[ADO.NET](http://ADO.NET) Implementation: Use [ADO.NET](http://ADO.NET) to create a new SQL Server database with a table named 'Students'. This table should contain the following fields: ID, FirstName, LastName, Age, and Course.  
  
Stored Procedure: Write a stored procedure that fetches all student data from the 'Students' table.  
  
[ASP.NET](http://ASP.NET) API: Use [ASP.NET](http://ASP.NET) to create a REST API that calls your stored procedure and returns the student data. This API should include a single GET endpoint, '/api/students', that fetches the data from your stored procedure and returns it as JSON.  
  
Client-side Interface: Use HTML and jQuery to create a client-side interface that calls your API and displays the student data in a browser. The data should be displayed in a list format, with each list item representing a student and displaying their name, age, and course.  
  
IntelliSense Search: Implement a search bar that provides IntelliSense-style suggestions as you type. The suggestions should be based on the student names available in the list. Implement this search functionality using jQuery and AJAX to make requests to your API and return relevant search results.