

Create an MVC Application to Manage Data for School Application

Creating an MVC application to manage data for a school application involves several steps. Below, is a step-by-step guide to creating the project:

Create an ASP.NET MVC Project

Create a new ASP.NET MVC project.

Design the Schema

Review the schema designed for the school database in Model Class.

Create Models

Ensure that we have three tables which are defined by the models: Student_Class, Subject_, and Class_ with the appropriate columns and relationships defined.

Add properties to these classes to match the columns in the respective tables. We can reuse the model classes created earlier.

Create Controllers

Right-click on the "Controllers" folder in our project.

Select "Add" > "Controller..."

Choose "MVC 5 Controller with views, using Entity Framework" and click "Add."

Select the model class (e.g., Student) and configure the controller actions for CRUD operations.

Create Views

In the Controllers folder, we will find auto-generated views for CRUD operations.

We will customize these views as needed to provide a user-friendly interface for adding, editing, deleting, and viewing records.

Implement CRUD Operations

In the controller actions (e.g., Create, Edit, Delete), write code to interact with the database using Entity Framework.

Testing

Run the application to test CRUD operations.

Ensure that we can create, read, update, and delete records in the Student_Class, Subject_, and Class_ tables.

Push to GitHub

Once we are satisfied with the changes, we commit them using Git and push to our GitHub repository. This will track our SQL scripts.

```
git init
```

```
git add .
```

```
git commit -m "Creating a MVCSchoolDatabase"
```

```
git branch -M Section4_MVCDb
```

```
git remote add origin https://github.com/PrashastVats1/Practice-Projects.git
```

```
git push -u origin Section4_MVCDb
```

GitHub Link : https://github.com/PrashastVats1/Practice-Projects/tree/Section4_MVCDb