

Architectural Design Document

TrackED uses an ASP.NET model-view-controller pattern (or MVC). This incorporates a flow from the browser to controller to model and then to a back-end database. C#, Razor, and SQL Server are the technologies used to support this ASP.NET architecture. ASP.NET models are used as endpoints to move data between the client and server. For example, to retrieve a list of students that a professor has, their client would send a GET request handled by an ASP.NET controller to get their student's information. This architecture is used for multiple functions throughout the project. ASP.NET also handles user logins. Ultimately, ASP.NET allows for a unified client/server platform, where clients run a web app (written in HTML and JavaScript), while more intensive server functions are performed using C#.