Github Link: https://github.com/rastogi102/Capstone_BlogTrackerApplication.git

Creating a Full Stack Blog Tracker Application (BTA) involves multiple components, including the front-end, back-end, and a database to store the blog-related information.

Front-End (ASP.NET MVC)

Create an ASP.NET MVC Project:

Start by creating a new ASP.NET MVC project in Visual Studio.

Design the User Interface:

Design the user interface for adding and displaying blog details. You will need views for adding a new blog and displaying a list of all blogs.

Create Controllers:

Create controllers to handle user requests. You'll need controllers for adding blogs and displaying the list of blogs.

Define Models:

Create models to represent the blog details. This should include properties like Title, Subject, Date of Creation, and Blog URL.

Implement CRUD Operations:

Implement Create, Read, Update, and Delete (CRUD) operations for managing blogs. Use Entity Framework to interact with the database.

Back-End (Web API)

Create a Web API Project:

Create a separate ASP.NET Web API project to handle data-related operations.

Implement API Endpoints:

Create API endpoints for creating and retrieving blog details. These endpoints should communicate with the database.

Business Logic Layer:

Implement a business logic layer to handle business rules, such as ensuring that employees write one blog per week.

Data Access Layer:

Create a data access layer to interact with the database using Entity Framework.

Database (MS-SQL Server)

Design the Database:

Design the database schema to store blog-related information. Create a table for blogs with columns for Title, Subject, Date of Creation, and Blog URL.

Set Up Database Connection:

Configure the connection string in your application to connect to the MS-SQL Server database.

Entity Framework Code-First:

Use Entity Framework Code-First approach to generate database tables from your C# models.

Security and Authentication

Implement authentication and authorization mechanisms to ensure that only employees can add blogs.

Deployment

Deploy the application to a hosting environment, such as Azure App Service or a web server.

Set up continuous deployment (CI/CD) to automate the deployment process.

Documentation

Create comprehensive documentation for your application, including how to set it up, use it, and maintain it.

Provide user documentation for employees on how to add their blog-related details.

Additional Features

You can enhance your Blog Tracker Application by adding features like:

Search and filtering options for blogs.

Pagination for displaying a large number of blogs.

User profiles for employees.

Notifications for reminding employees to write their weekly blogs.

Remember to follow best practices for coding, security, and database design while developing your application. Testing and validation are crucial to ensure the application works as expected.