

**DEVELOPMENT DOCUMENT:**

# VINTRI PROJECT

**BY FARAMARZ FAKHRI**

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# VINTRI PROJECT

Vintri Project is a web application that allows users to search for beers and add ratings to them. This README provides an overview of the project, its components, and how to get started.

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## INTRODUCTION

The Vintri Project is a web-based application built using ASP.NET Web API .Net Framework 4.8. It provides two main functionalities:

- **Beer Search:** Users can search for beers by name using the search feature. The application makes use of the Punk API to fetch beer data based on the search query.
- **Beer Rating:** Users can rate and add comments to beers. Ratings are stored in a JSON file (**database.json**) for later retrieval.

# PROJECT STRUCTURE

The project is organized into two main components: **BeersController** and **RatingController**. Each of these controllers handles specific functionalities:

## BeersController

The **BeersController** is responsible for handling beer-related operations, including:

- Retrieving a list of beers based on a search query.
- Combining beer data from the Punk API with user ratings stored in the **database.json** file.
- Displaying beer details along with user ratings.

## RatingController

The **RatingController** manages user ratings for beers. It handles the following actions:

- Adding user ratings for specific beers.
- Validating user inputs, including email format and rating value.
- Storing user ratings in the **database.json** file.

# MODELS

The project defines several models, including **Beer**, **BeerApiResponse**, **Rating**, and **UserRatingWrapper**, to represent data structures used by the controllers.

# VALIDATION

The project uses the **RatingValidator** class for validating user ratings, ensuring that usernames are not empty and rating values are within the range of 1 to 5. Additionally, the **UsernameValidationAttribute** validates the email format of email addresses.

# USAGE

Once the project is running, you can access it through your web browser via Swagger to run the results.

Also, a test project has been implemented via MSTest and can be run via Visual Studio.