Business Case # 1	Add a REST API endpoint to allow a user to add a rating to a beer
Description	 This endpoint should accept an id parameter and JSON request body which includes the following properties: username, rating, comments. Add validation to ensure the id parameter is a valid beer id by querying the Punk API. Add validation to ensure that the rating is a valid value in the range of 1 to 5. If any of the validations fail an applicable error should be returned to the user. All valid requests should append the JSON from the request body to a file called database.json stored within a solution folder of your choosing.
Operation Type	POST
API URL	http://localhost:54716/api/ratings/BeerID example - http://localhost:54716/api/ratings/7
Input Parameters	 ID: number (Int32) UserRatings (New Object): Username: string Rating: number [1-5] Comments: string
Output parameters	Status CodeSuccess/Error MessageRating details
Validations	 ID Is Not NULL Number Validate id in Punk API - https://api.punkapi.com/v2/beers/1 UserRatings NOT NULL Rating NOT NULL Number Range 1-5 Comments N/A
Business Logic	 Validations Fail → Status code BAD REQUEST with error messages Pass → Append request to database.json JSON and return ratings object to
Dependent URLs & Operations	https://api.punkapi.com/v2/beers/1

Testcases	N/A						
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Business Case # 2	Add a REST API endpoint to retrieve a list of beers
Description	 This endpoint should accept one parameter in the query string of the request. The purpose of this parameter is to denote the name of the beer to search for. The implementation of your REST endpoint will use the public available Punk API to retrieve all beers matching the search parameter described above. After retrieving the search result, load the contents of the database.json file into an in-memory collection and write a Linq query to project an API response that follows the structure of the following example: "id":"1", "name":"Buzz", "description":"A light, crisp and bitter IPA brewed with English and American hops. A small batch brewed only once.", "username":"john.doe@fictitious.com", "rating":3, "comments":"Lorem ipsum dolor sit amet, consectetur adipiscing elit"}, "username":"max.power@fictitious.com", "rating":5, "comments":"sed do eiusmod tempor incididunt ut labore"}]
Operation Type	GET
API URL	http://localhost:54716/api/beers?name=inputSearchParameter
	example: http://localhost:54716/api/beers?name=AB:
Input Parameters	 name: string Optional Parameter (result default limit = 25) and user can customize
Output parameters	 Status Code Success/Error Message BeersWithReviews Id Name Description UserRatings (List) Username Rating Comment
Validations	Name Is Not NULL

Business	Result set returns max of 25 records
Assumptions	In next release will implement customizable results size
Business Logic	 Validations
	 o Fail → Status code BAD REQUEST with error messages
	○ Pass → Append request to database.json JSON
Dependent	https://api.punkapi.com/v2/beers?beer_name=AB:
URLs &	
Operations	
Testcases	N/A

Business Case # 3	Add a custom Web API Action Filter Attribute
Description	 This action filter attribute is for the purpose of validating the username supplied in the JSON body of the REST operation described in task 1. The validation should use a regular expression to ensure the username value is a valid formatted email address. If the username is not valid an applicable error should be returned by the API.
Operation Type	Action Filter that executes before Action is executed
API URL	http://localhost:54716/api/ratings/BeerID example - http://localhost:54716/api/ratings/7
Input Parameters	 ID: number (Int32) UserRatings (New Object): Username: string Rating: number [1-5] Comments: string
Output parameters	 Status Code Success/Error Message Rating details
Validations	 UserRatings.Username Must be a formatted email
Business Assumptions	None
Business Logic	 Validations Fail → Add error messages to ModelState messages Pass → Proceed to Action execution
Dependent URLs & Operations	https://api.punkapi.com/v2/beers/1
Testcases	N/A