Functional Requirements

1) Product Management

- 1.1 The system shall store product information in products.json.
- 1.2 The system shall allow viewing all products.
- 1.3 The system shall return products in pages of 10 items.
- 1.4 The system shall sort products by dateAdded in descending order.
- 1.5 The system shall calculate and show the **average rating** for each product based on all reviews.
- 1.6 The system shall allow filtering products by category.
- 1.7 The system shall allow searching products by name (case-insensitive).

2) Review Management

- 2.1 The system shall allow users to view all reviews for a product.
- 2.2 The system shall allow users to **add** a new review for a product.
- 2.3 The system shall allow users to **edit/update** an existing review.
- 2.4 The system shall allow users to **delete** an existing review.
- 2.5 The system shall store all reviews in reviews.json.
- 2.6 The system shall allow ratings only in the range of 1 to 5.

3) Rating & Computation

- 3.1 The system shall compute averageRating of a product dynamically from all its reviews.
- 3.2 The system shall update the average rating automatically after add/update/delete review.