White Box Testing
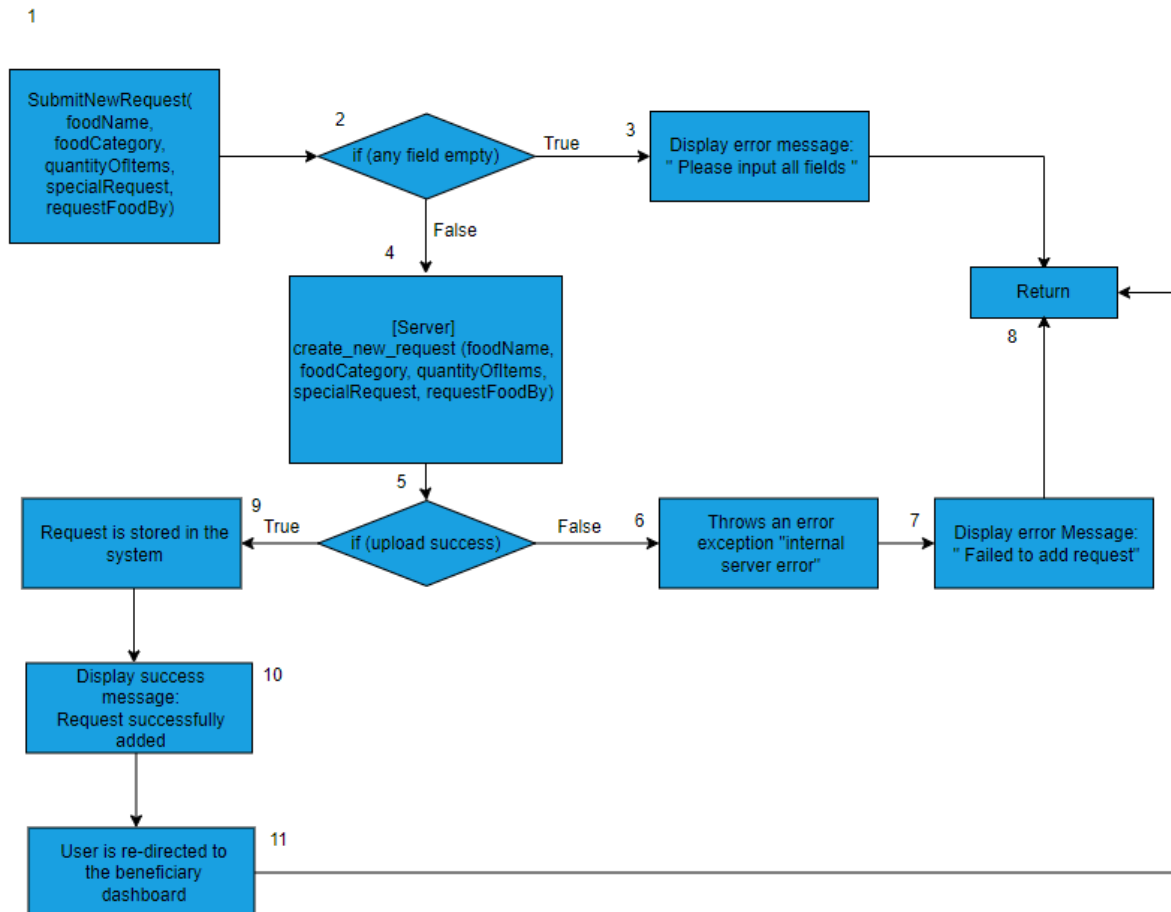
The following features will be tested with the white box testing method:

1) Submit new request as beneficiary

   i)Control flow graph

   ii) Basic Path Testing

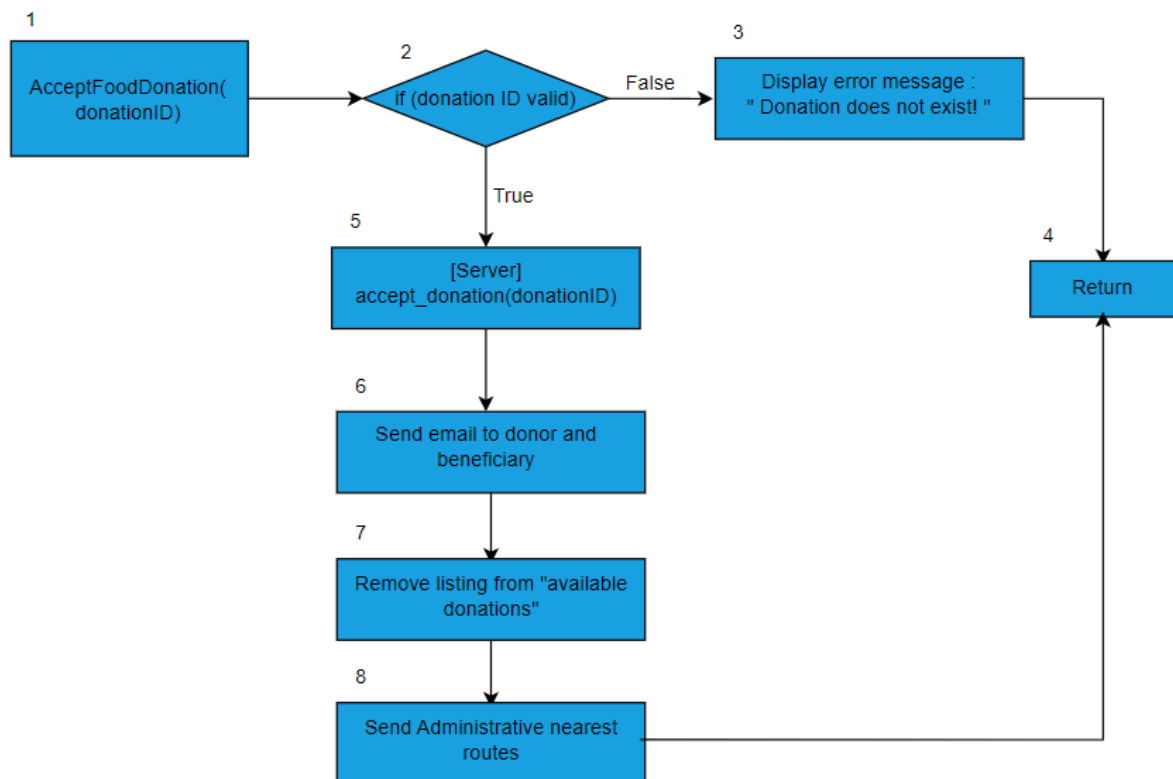Cyclomatic complexity : | Decision points | + 1 = 2 + 1 = 3

Basic paths:

1) Baseline path: 1,2,4,5,9,10,11
2) Basis path 2: 1,2,3,8
3) Basis path 3: 1,2,4,5,6,7,8

iii)<u>Test Cases And Results</u>

No.	Test Input	Expected Output	Actual Output	Pass?
1	**All fields empty** (foodName, servings, specialRequest, date, deliveryMethod, etc.)	Error: "Please input all fields"	Please input all fields	Yes
2	**Some fields empty** (e.g., servings, deliveryMethod)	Error: "Please input all fields"	Please input all fields	Yes
3	**All fields filled, valid data** (e.g., valid foodName, servings, etc.)	Success: Request successfully added, redirect to dashboard	Request successfully added, redirect to dashboard	Yes
4	**All fields filled, but illegal fields** (e.g., invalid characters in foodName)	Error: "Internal server error"	Internal server error	Yes
5	**Invalid date format** (e.g., date in wrong format)	Error: "Invalid date format"	Invalid date format	Yes
6	**Server error during request creation** (simulating server failure)	Error: "Failed to add request"	Failed to add request	Yes

2) Accepting new donations from donor as beneficiary

i) <u>Control Flow Graph</u>

ii) <u>Basic Paths Testing:</u>

Cyclomatic complexity : | Decision points | + 1 = 2

<u>Basic paths:</u>

1) Baseline path: 1,2,5,6,7,8,4
2) Basis path: 1,2,3,4

iii) <u>Test case and Results</u>

No.	Test Input	Expected Output	Actual Output	Pass?
1	Valid donation ID	Success: Donation accepted successfully.	Donation accepted successfully	Yes

2	Invalid donation ID	HTTP 400 exception thrown with message "Donation does not exist". Display error message: " Failed to add accept donation"	Failed to add accept donation	Yes