Software Metrics

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Upload Function

Total Complexity: 10 + 12 +17 + 15 = 54

Internal Logical Files (ILFs):

- Trade items table: stores uploaded item data (item name, description, image path, poster ID)
- Maintained by the application
- Complexity: **10 (average) x 1 = 10**

External Inquiries: none

External Logical Files (ELFS):

- CSS file: upload component (image preview, field layout)
- Backend API endpoint processes upload and inserts item in PostgreSQL
- Image data stored in server and metadata saved in trade items table
- Complexity: **7 (average) x 1 + 10 (complex) x 1 = 17**

External Interface Files:

- None

External Inputs:

- User submits item (form: item name, description, image)
- Data is validated and formatted into a FormData object fcr API submission
- Data sent to backend via fetch("api/upload")
- Complexity: **3 (simple) x 4 = 12**

External Outputs (EO):

- System returns a success message, displays image preview, and navigates to homepage — in case of error, failure message in red
- Success status feedback, error status feedback, conditional UI rendering and navigation after successful
- Complexity: **4 (simple) x 2 + 7 (complex) + 1 = 15**