Semantic Lifting of Budget Data

Semantic Data Web Technologies Lab

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Test Cases

Test Cases

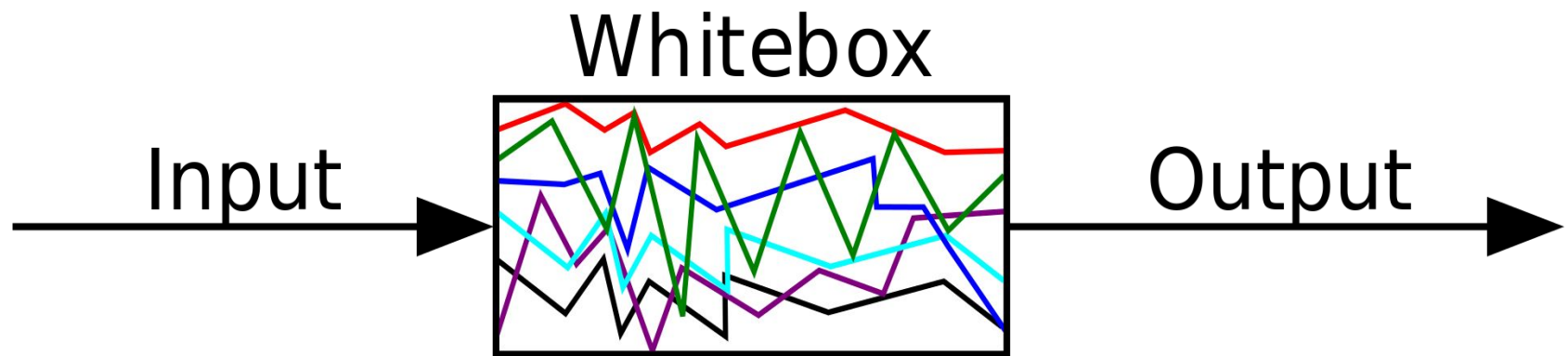| Nº	Functionality	Test case description	Expected result
1	**Data extraction & loading**	Perform the extraction and loading of government budget data	Data represented in various formats is successfully loaded into the system.
2	**Data transformation**	Transformation of the datasets into the OBEU RDF data model	Data is transformed into RDF data model.
3	**Output validation**	Validation of the transformation result using an open source RDF-Data-Cube-Validator	Output is valid RDF data.

Testing

Test Method

White-box testing

is a method of **testing** internal structures or workings of a program.

Input → Whitebox → Output

Testing Strategy

1. **Unit Tests:** verify the correct functionality of the **smallest units of code**. (junit and specsy)

2. **Integration Tests:** verify the correct functionality of **individual software modules combined** as a group. (concordion, executable specification)

3. **Front-End Tests:** verify the correct functionality of the **front-end.** (selenium)

Our goal is to produce high quality software. We aim for 100% test coverage (LOC).

Test Method

Acceptance Tests: verify the **system's** behaviour as a whole and its compliance with its specified requirements

(**black box test**)

"Of course bad code can be cleaned up.
But it's very expensive."

— Robert C. Martin, Clean Code: A Handbook of Agile Software Craftsmanship