Deception Detective Fact-Checker Design Diagrams

The following diagrams show the intended functionality of our project: The Deception Detective fact-checker browser extension. The diagrams use standard flowchart symbols. Each diagram starts with a document input symbol to show the webpage input to be processed. Additionally, each diagram ends with an output symbol to show the overlay that our tool will create. The rectangular boxes within each diagram are process symbols that represent different processes that our tool will perform to reach the final state. The remaining symbol (shown only in D2) represents stored information. The lines that connect the symbols show how the program moves from one activity to the next.

Diagram D0: High-Level Graph

Diagram D0 is a high-level flowchart depicting the intended functionality of our project. In its simplest form there are three steps: provide a webpage as input, activate the program from the web extension, and output an overlay that displays all the statements from the webpage that are made as facts and shows their validity.

Figure 1: Diagram D0

Diagram D1: Mid-Level Graph

Diagram D1 is a slightly lower level version of D0. It adds in the two steps taken by the backend to form the final output. The first of these is to use an algorithm to determine which statements on a webpage are made as facts. The other step is to use a different algorithm to check each of the statements against the web to determine how truthful they are.
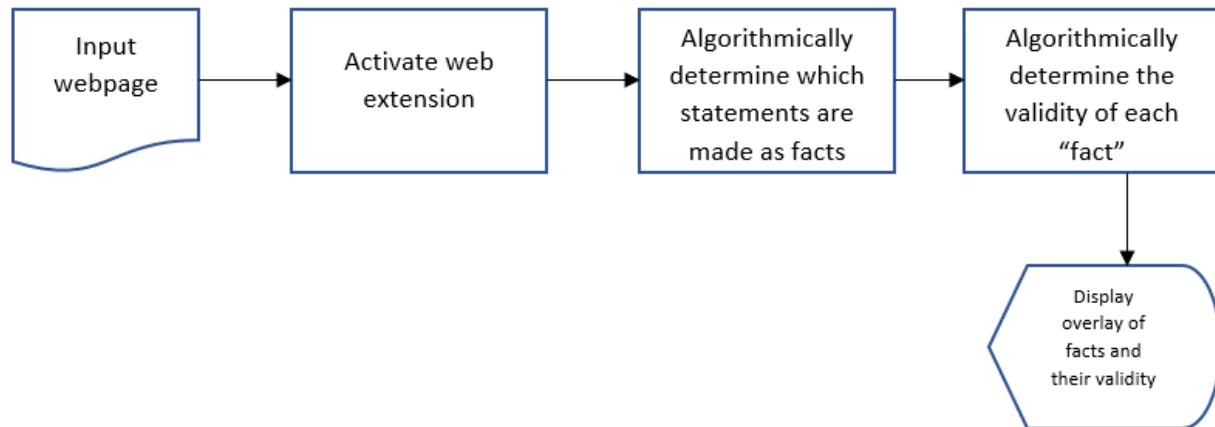
Figure 2: Diagram D1

Diagram D2: Low-Level Graph

Diagram D2 is the lowest-level flowchart depicting the intended functionality of our project. It expands upon the algorithms overviewed in D1 to give a better idea of how they work. The algorithm for finding factual statements will search from the paragraph and heading tags in a webpage's HTML, then it will store the statements in a list once they have been found. The algorithm for determining validity will iterate through this list and search the web for each individual statement.
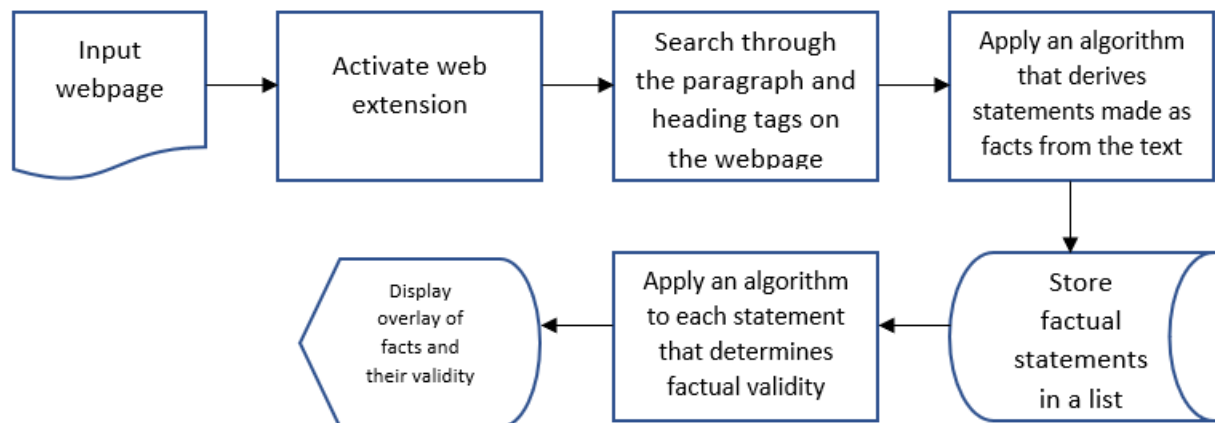

Figure 3: Diagram D2