

EXPERIMENT - 7

Aim:- Evaluate the effectiveness and efficiency of screen scraping techniques by extracting structured data from unstructured sources.

Software Required:- Any RPA Tool.

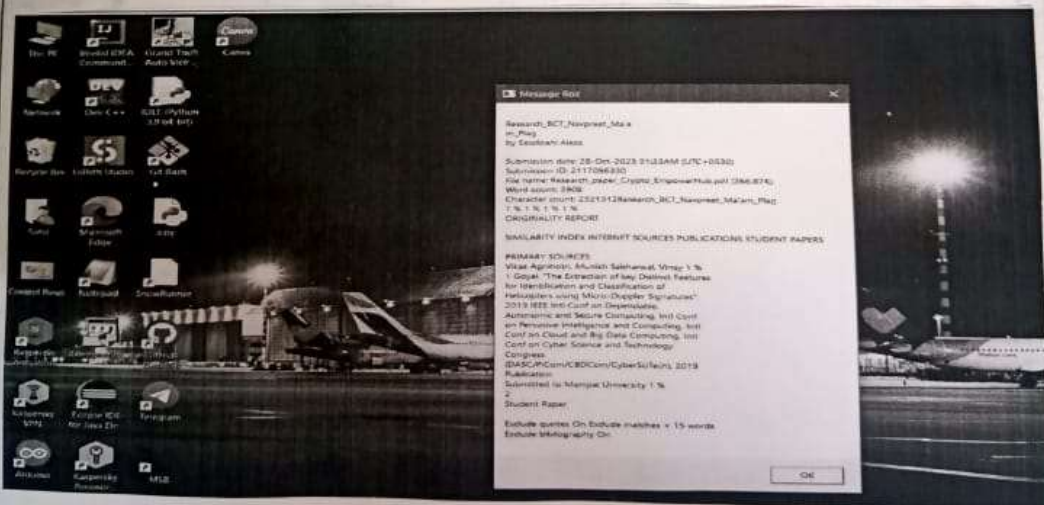
Relevance of the Experiment:- This experiment is to evaluate the effectiveness & efficiency of screen scraping techniques for extracting structured data from unstructured sources is highly relevant due to its implications for automating data extraction from diverse & unorganized formats. In today's data-driven landscape, where information is scattered across various interfaces, this practical is crucial for optimized data retrieval processes, improving automating accuracy, and enabling efficient decision-making based on extracted insights.

Description:- The experiment involves employing screen scraping tools and methodologies to retrieve meaningful data from interfaces that lack a predefined structure.

1. Determine the source from which you want to extract data. It could be a website, a desktop application, or a document.
2. Open UiPath Studio, the integrated development environment for building automation workflows.
3. Start a new project and define its properties such as name and location.
4. Drag and drop the appropriate screen scraping activity from the UiPath Activities panel onto the Workflow canvas.
5. Use UiPath's built-in tools to indicate the source area from

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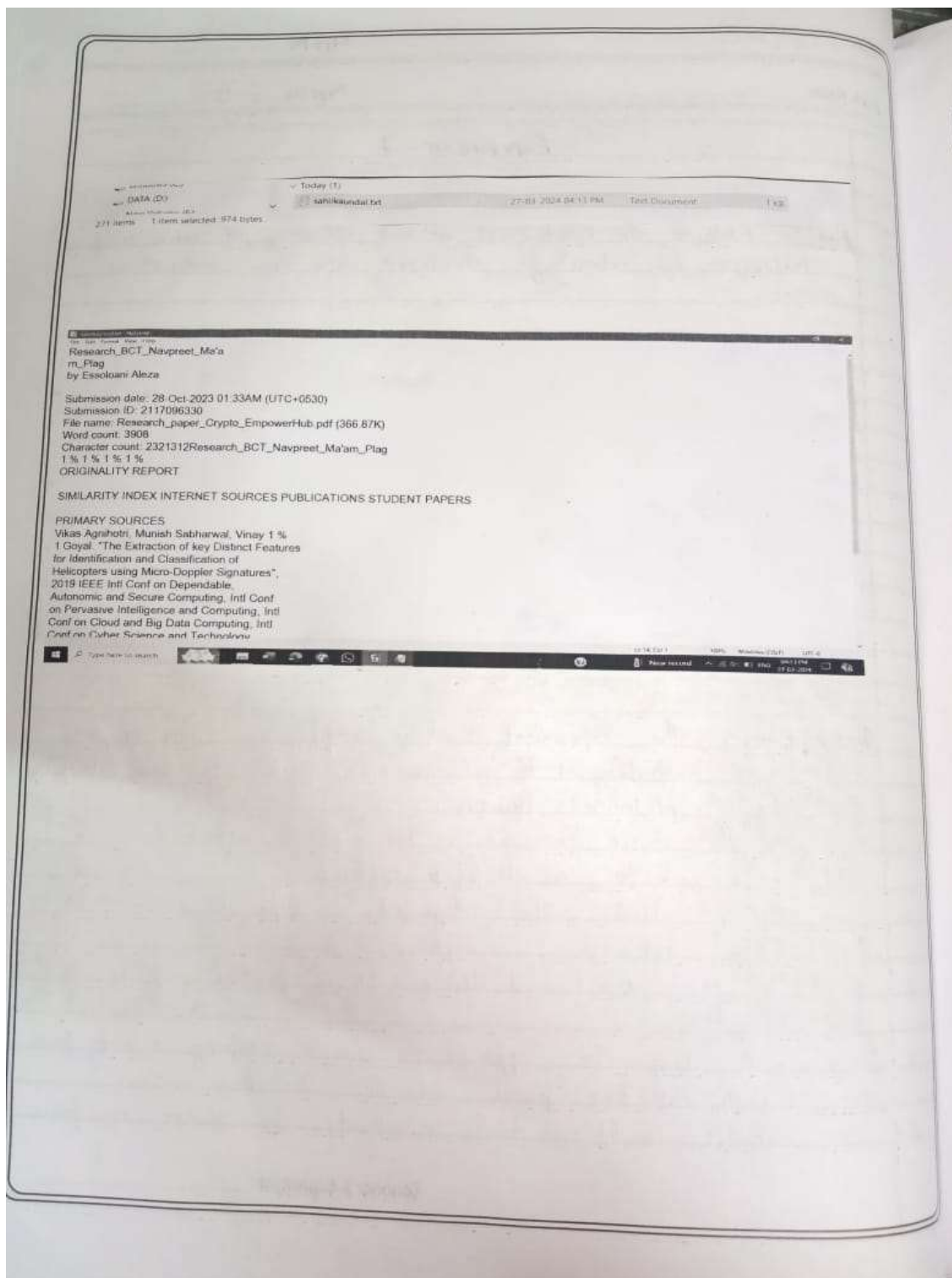


- which you want to extract data. This could involve selecting elements on a webpage or specifying regions in a document.
6. Configure settings such as the type of data to extract handling of dynamic content, and any necessary data manipulation or cleanup.
 7. Run the screen scraping activity to extract data from the specified source. Validate the extracted data to ensure accuracy and completeness.
 8. Implement error handling mechanisms to deal with any exceptions that may occur during the scraping process, such as changes in the source layout or connectivity issues.
 9. Refine the scraping process as needed to improve accuracy or efficiency. This might involve adjustment selectors, refining extraction rules, or optimizing workflow logic.
 10. Once satisfied with the scraping process, deploy the UPath automation workflow. Monitor its performance and make any necessary adjustments over time to ensure continued effectiveness and efficiency.

Learning Outcome:-

- (i) Develop proficiency in using screen scraping tools and techniques enhancing automation capabilities for unstructured data extraction.
- (ii) Explore and compare different screen scraping tools and frameworks available in the market.

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SCREENSHOTS:

