PDF Annotation and Data Harmonization (PANDHA)

September 2021 Version 1.2

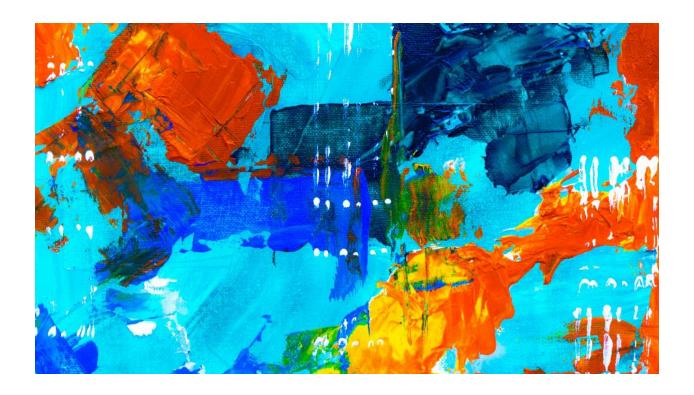


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Document Revision

| Date | Version Number | Document Changes |
|------------|----------------|---------------------------------|
| 01/05/2021 | 1.0 | Initial draft |
| 07/20/2021 | 1.1 | Updated to beta PANDHA V1 |
| 09/29/2021 | 1.2 | Update to beta PANDHA V1.0.2 |

1 Installation

1.1 Scope and Purpose

The purpose of this project is to further the research and development of tools that NCEA can use in their creation of machine-readable datasets and machine learning research. This effort consists of the following objectives:

Research and develop software for NCEA that provides the ability to annotate scientific
publications for use in machine learning algorithms. This software should be able to
accept a list of tags provided by NCEA, allow the user to apply these tags to PDF
documents in a web interface, and then extract out the information needed in machinereadable formats that can be used for machine learning.

1.2 Source Code Access

This describes the process of accessing the source code.

1. https://github.com/USEPA/pdf-data-extraction

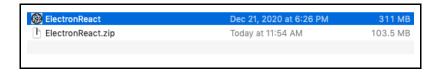
1.2 Installation MacOSX * need to work out zip issue

1. Download latest version from

2. Double click 'mac.zip' to unzip the file.

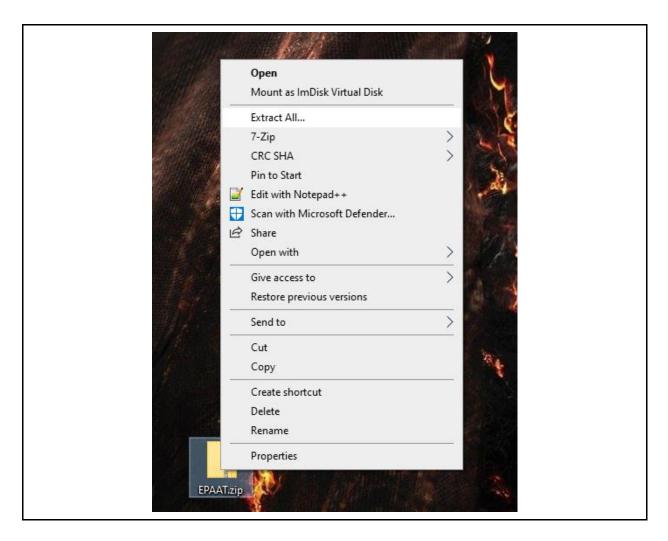


3. Double click 'ElectronReact' to launch the application.

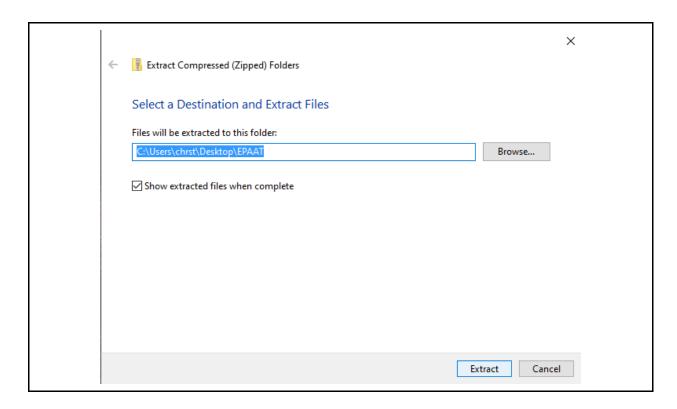


1.3 Installation Windows

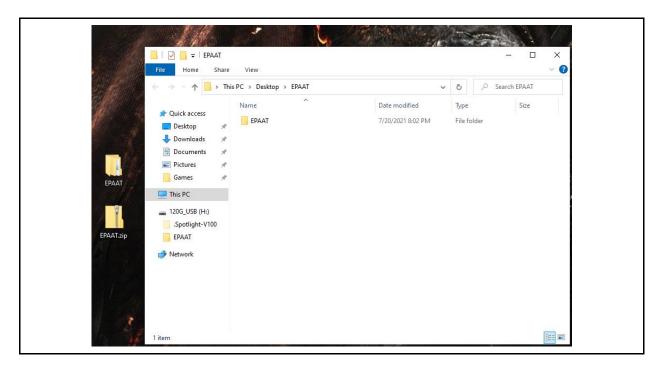
- 1. Download latest version from (PANDHA_1.0.2) https://usepa.sharepoint.com/sites/DOEORNLCPAD/Shared%20Documents/General/Annotation%20Tool%20Beta/Windows
- 2. Right click 'Windows.zip' and select 'Extract All'



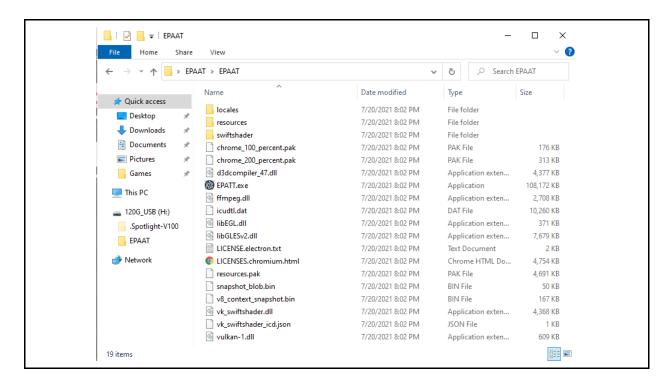
3. Select location and hit Extract



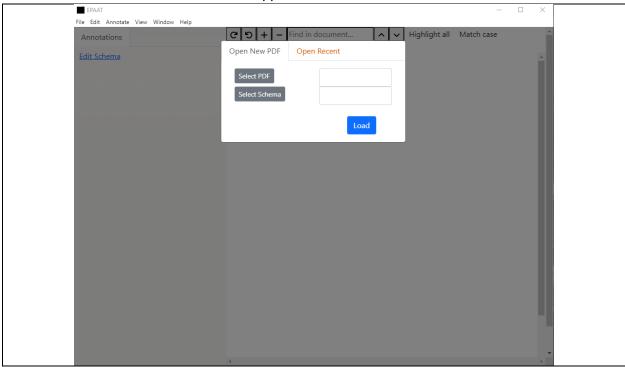
4. From the extracted location double click the EPAAT Folder



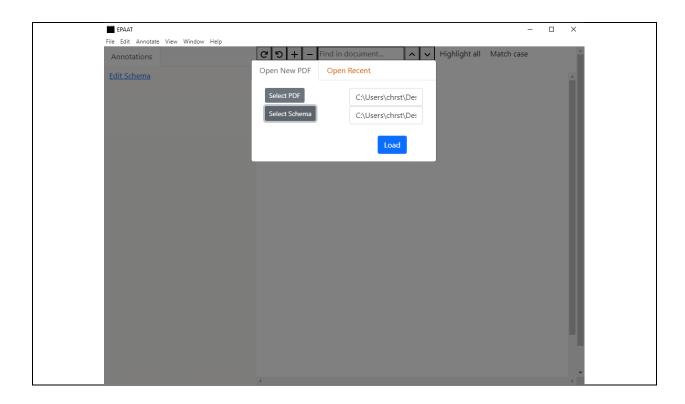
5. Double click *EPAAT*



6. Double click EPATT.exe to start the application



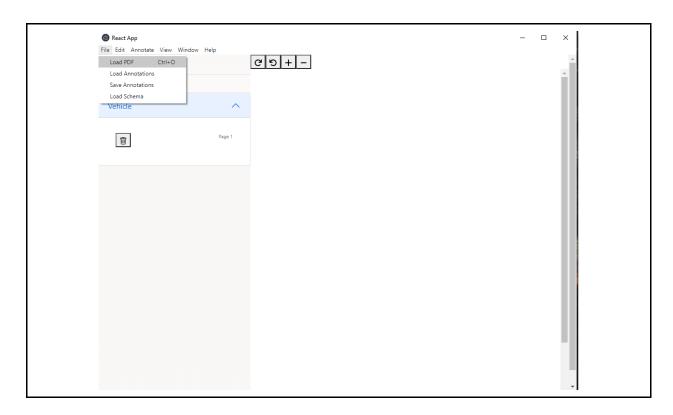
7. Select the PDF and Schema (schema.json is including in the installation folder) and click Load



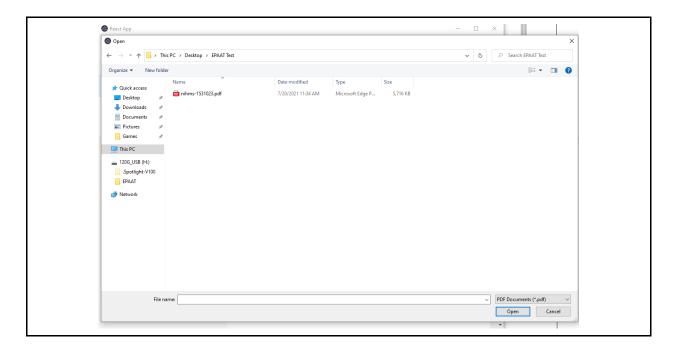
2 Application

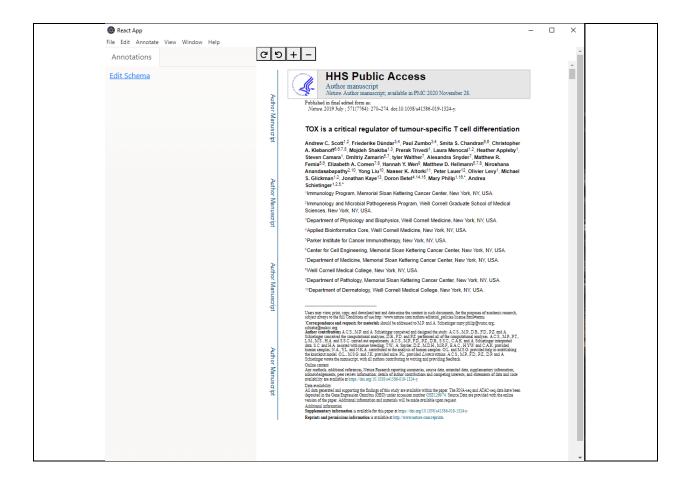
2.0 Load PDF

1. Click File in the menu bar and select Load PDF.



2. Select the PDF file from your computer.



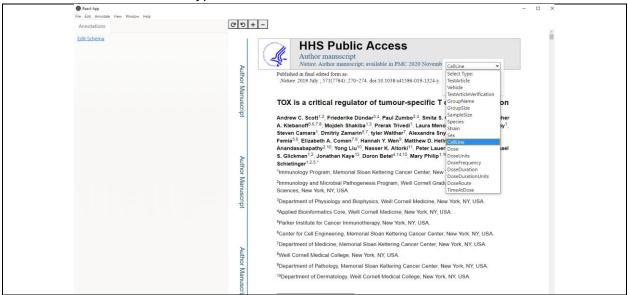


2.1 Annotate PDF

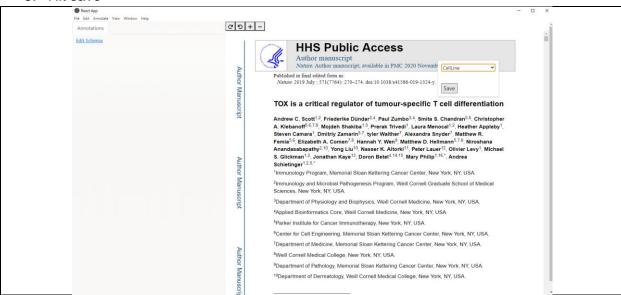
1. Highlight text you wish to annotate and select Add Annotation.

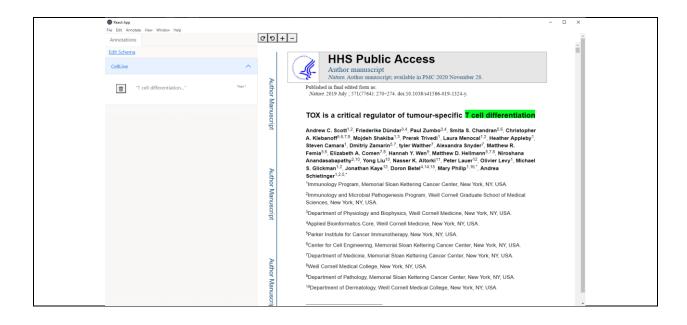


2. Select the annotation type.



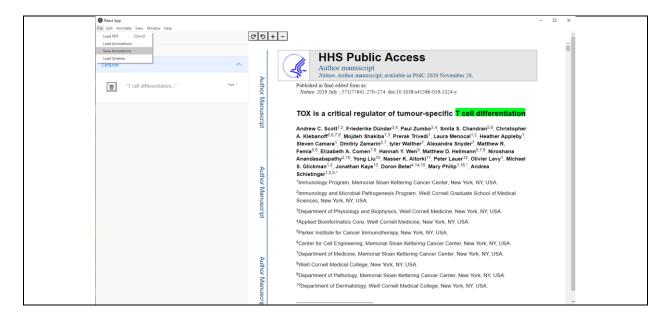
3. Hit save



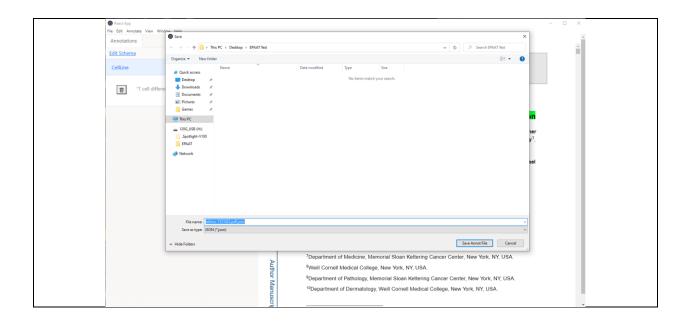


2.2 Save Annotations

1. Click File in the menu bar and select Save Annotations.

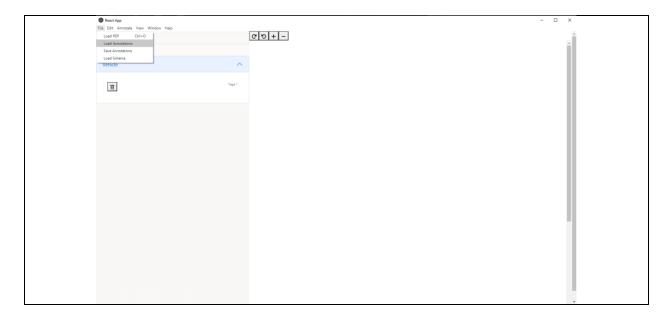


2. Select a save location on your computer and click Save Annot File.



2.3 Load Annotations

1. Click File in the menu bar and select Load Annotations.



2. Select an annotation file

