# API Documentation

The following API functions were written in the Windows.xaml file of the Digital Archival Tracker project

* private void aipReportSelectionBTN\_Click(object sender, RoutedEventArgs e)

This function is the handler for the button AIP Report Select. The AIP Reports which are in the form of tables in the database are selected and the connection to the database is closed.

* private List<string> lookForSheetNamesInExcel(string excelFilePath)

Returns a List of strings containing sheet names in the Excel uploaded during the first step, the user can select the Sheet and rename it in the UI.

* private void readAIPReportBTN\_Click(object sender, RoutedEventArgs e)

Reads AIP Report from the database. Performs Retrieve operation on the database by opening a connection reading the table and populating data in the data grid and closing the connection.

* private void createTable(string tableName, List<string> excelColNames)

Performs the Create operation on the database. When the user uploads a new sheet and saves it to the database the connection is opened and a table is created.

* private List<string> getExcelColumnNames()

Reads the Excel file for the column names. Returns a List of strings containing the column names. This operation is performed when the user uploads the Excel file and the sheet is selected, this populates data in the data grid by reading the columns in the Excel sheet.

* private List<ExpandoObject> convertAndReturnExcelDataForDB(List<string> excelColNames)

Returns list of database objects. The excel data is converted and sent to the insert function which updates the database with the excel data.

* private void insertExcelDataIntoDB(List<ExpandoObject> expandoList)

Performs the Update operation on database. Calls the “convertAndReturnExcelDataForDB” function and gets the database objects and updates those objects to the database.

* private void putDataInDataGrid()

Performs the retrieve operation on database. Updates the data grid by reading data from the database.

* private void addColumnBTN\_Click(object sender, RoutedEventArgs e)

Performs Update operation on database by updating the table with a new column.

* private void deleteColBTN\_Click(object sender, RoutedEventArgs e)

Performs the Delete operation on the database. Deletes a column by copying the current state of the table then deleting the column and updating the database with the saved copy of the database.

* private void loadTableBTN\_Click(object sender, RoutedEventArgs e)

Performs Retrieve operation on the database. Loads the table from the database into the data grid.

* private void deleteTableBTN\_Click(object sender, RoutedEventArgs e)

Performs Delete operation on the database. Deletes a table from the database.

* private void exportCSVBTN\_Click(object sender, RoutedEventArgs e)

Creates a copy of the current table being viewed and saves it to a database object then exports this object as a CSV file in the browsed location.