DateTime (DTT) is a Rust library designed for handling dates and times with prec
ision and flexibility. It provides developers with tools for parsing, validating
, manipulating, and formatting date and time data efficiently. As part of the Mi
ni Functions family of libraries, DTT integrates seamlessly with Rust applicatio
ns, providing a robust solution for date and time management in software develop
ment projects.

Key Features

DateTime (DTT) provides a wide range of functionality for working with date and
time data, including:

Versatile Parsing and ValidationThe DateTime (DTT) Rust library showcases its ve
rsatility through its extensive support for parsing various date and time format
s, catering to a wide array of data sources and standards. This capability is cr
ucial for developers working with diverse datasets or integrating with multiple
systems, where consistency in date and time formats cannot always be guaranteed.
Below, we delve into the specific formats and standards DTT supports, highlighti
ng its adaptability and utility in different programming scenarios.Comprehensive
Manipulation and FormattingWith DTT, manipulating date and time data is straight
forward, thanks to its suite of functions designed to accommodate various progra
mming needs. Whether it's adjusting dates, converting time zones, or formatting
dates and times for display, DTT offers the flexibility required to handle these
tasks efficiently.Serialization and DeserializationLeveraging the serde library,
DTT allows for easy serialization and deserialization of the DateTime struct to
and from various data formats. This feature is particularly useful for applicati
ons that need to store or transmit date and time data in a structured and intero
perable manner.Time Zone and ISO 8601 SupportDTT supports the creation of new Da

teTime objects with either UTC or custom timezone specifications, ensuring that applications can handle date and time data across different geographical locatio ns accurately. Additionally, the library provides robust support for working wit h ISO 8601 date and time formats, a critical feature for international applicati onsDeveloper-Friendly MacrosDTT includes macros for input validation and struct generation, streamlining the development process and ensuring that developers ca n work with date and time data efficiently.Performance and ReliabilityDTT is des igned to be performant and reliable, ensuring that date and time operations are executed with precision and accuracy. The library's robust testing suite and con tinuous integration pipeline ensure that it meets the highest standards of quali ty and reliability.DateTime (DTT) is a powerful and versatile Rust library for m anaging dates and times, offering a wide range of features and capabilities to m eet the needs of modern Rust applications. With its focus on ease of use, flexib ility, and robustness, DTT is an essential tool for developers working with date and time data in Rust.

Learn more about how DTT can enhance your Rust projects with its advanced date a nd time handling capabilities.