Natural Language to iCalendar Converter

COMP SCI 4TB3 PROJECT – GROUP 9

Natural Language to iCalendar Converter

Generates a standard iCalendar format event from a natural language input.

Create new calendar events without filling separate fields as in a traditional calendar application.

Type your event information to view a real-time conversion

Discuss project on Monday. Bring notes

- Summary: **Discuss project**
- Date Start: **Mon Apr 05 2021 GMT-0400**
- Date End: **Mon Apr 05 2021 GMT-0400**
- Description: **Bring notes**

Press Enter or click Download to generate an iCalendar file for your event.

Download .ics   Preview .ics

The iCalendar Format

Internet Calendaring and Scheduling Core Object Specification – A standard for storing and exchanging calendar event data.

Supported by and can be imported into almost any calendaring application.

"Discuss project at 4pm next mon. Bring notes"

- SUMMARY: Discuss project
- DATETIME: 4pm next mon
- DESCRIPTION: Bring notes

```
BEGIN:VCALENDAR
PRODID:Calendar
VERSION:2.0
BEGIN:VEVENT
UID:0@default
CLASS:PUBLIC
DTSTAMP;VALUE=DATE-TIME:20210330T160909
DTSTART;VALUE=DATE-TIME:20210405T090000
DTEND;VALUE=DATE-TIME:20210405T100000
SUMMARY;LANGUAGE=en-us:Discuss project
DESCRIPTION:Bring notes
TRANSP:TRANSPARENT
END:VEVENT
END:VCALENDAR
```

Implementation

Written in JavaScript, and therefore:

- Cross-platform on desktop and mobile
- Runs client-side in any web browser
- Simple to integrate into new and existing websites

Implementation

TODO mention something about having limited scope since there are an infinite different ways to say the same thing in natural language

Implementation

Conversion is performed in three major steps:

User Input → → → → → .ics Output

- Splitting the input into component substrings
- Converting component substrings into matching iCalendar fields
- Formatting output per iCalendar specification

Testing

A combination of manual and automated tests were performed to ensure that for any valid

Demo

Questions?