Microsoft

Teams Interoperability

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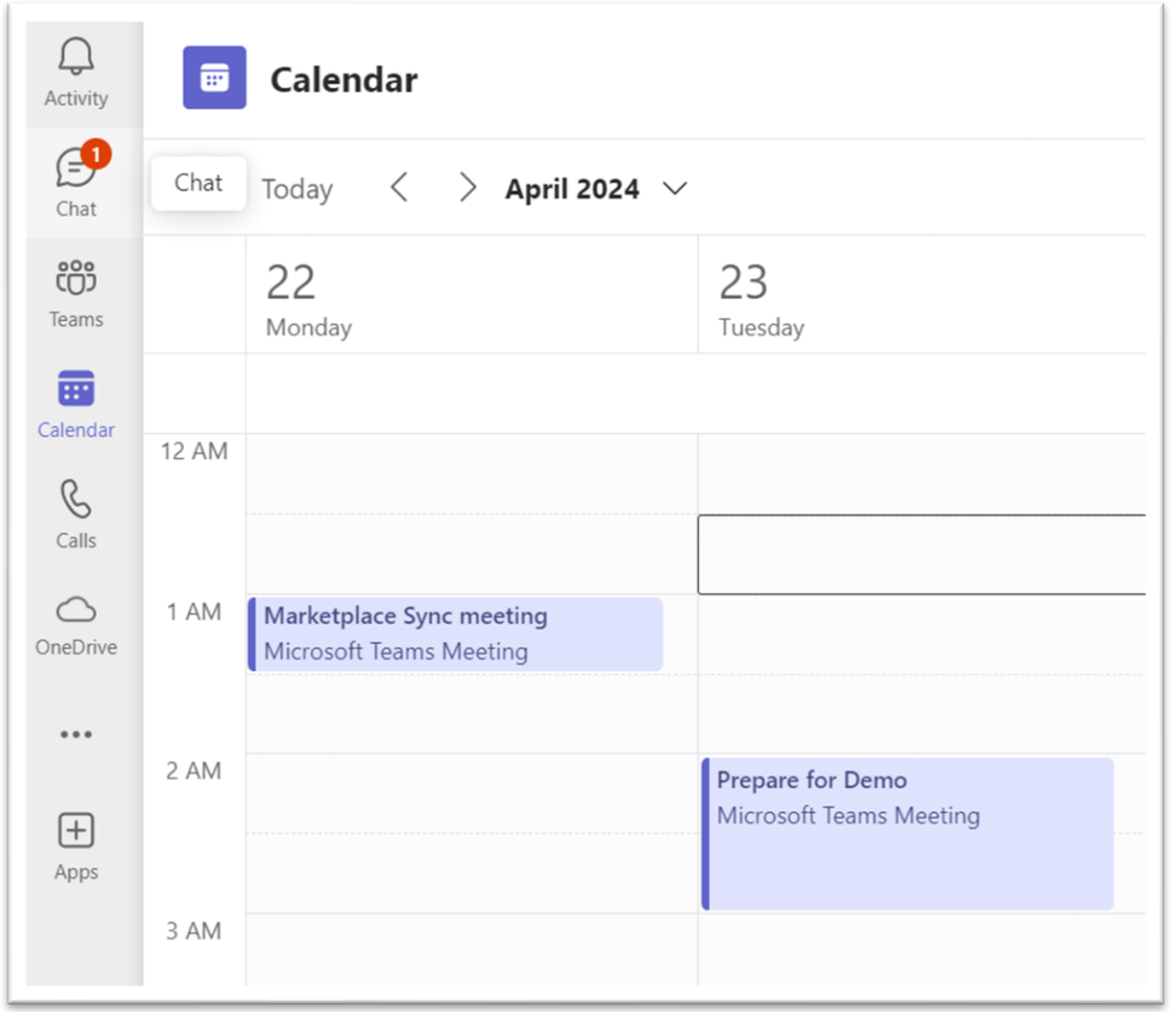
Software Engineer

Agenda

- Overview
  - Calendar\Events
  - Files
- Graph Toolkit
- Demo

Teams UI: calendar



- ✓ Get instant visibility into planned activities, color coded and categorized automatically
- ✓ All information is synced across all your devices
- ✓ No need to check multiple calendars in different apps
- ✓ Scheduling resources like rooms, AV equipment, etc. for your events

Graph APIs: calendar

A calendar is a container for events. It can be a calendar for a user, or the default calendar of a Microsoft 365 group.

/me/events
/users/{id}/events
/me/calendar/events
/users/{id}/calendar/events
/me/calendars/{id}/events

/users/{id}/calendars/{id}/events/

Microsoft Graph

List events

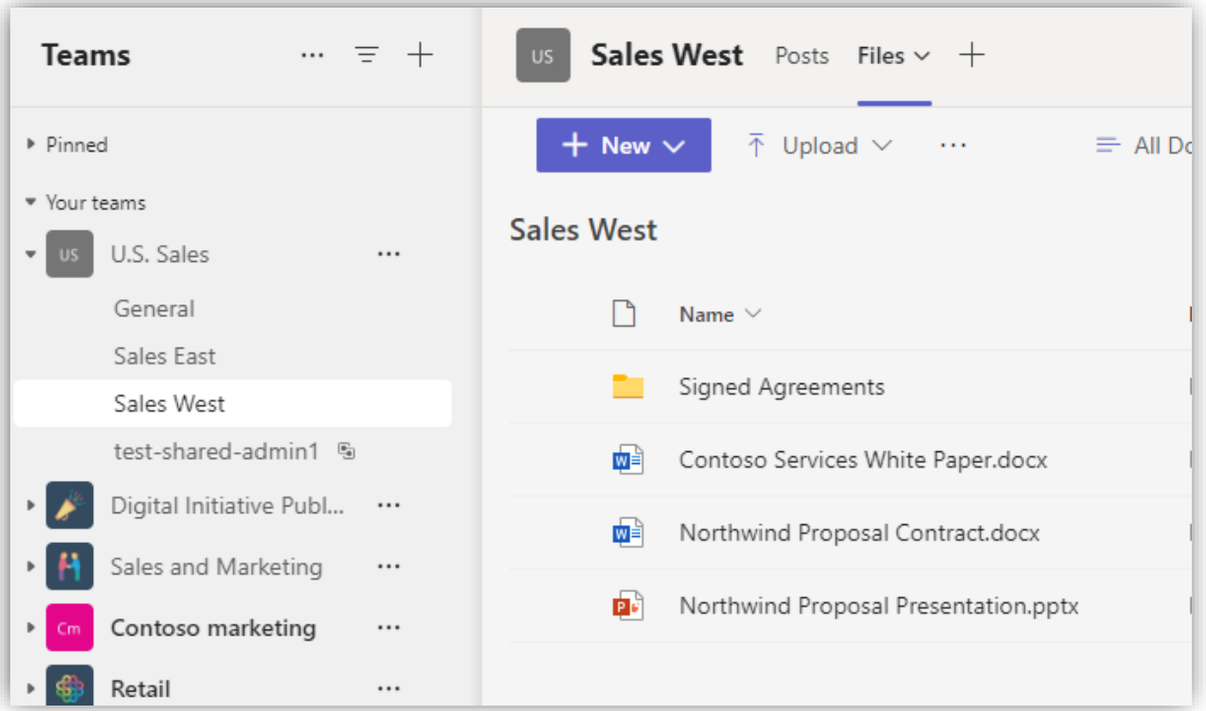
Create events

Check availability

Reschedule events

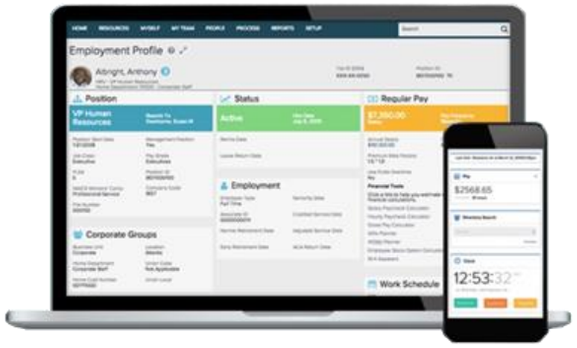
Add your attachments to events

Teams UI: channel Files



- ✓ Built-in compliance, governance, and versioning
- ✓ Share files easily
- ✓ Co-author from mobile, desktop, and web in real-time
- ✓ Access your files offline

Graph APIs: Files



Files (drive/drive item) represent an item within a drive, like a document, photo, video, or folder.

/me/drive
/me/drives
/drives/{drive-id}

/users/{user-id}/drive
/groups/{group-id}/drive
/sites/{site-id}/drives

Microsoft Graph

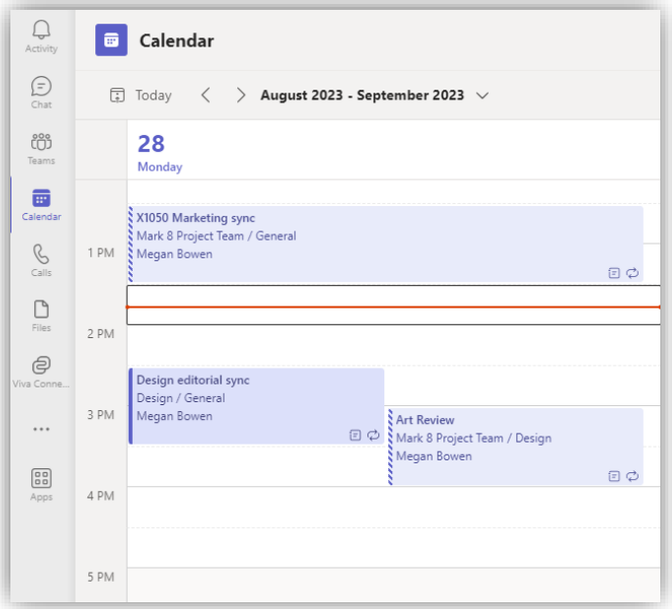
List children

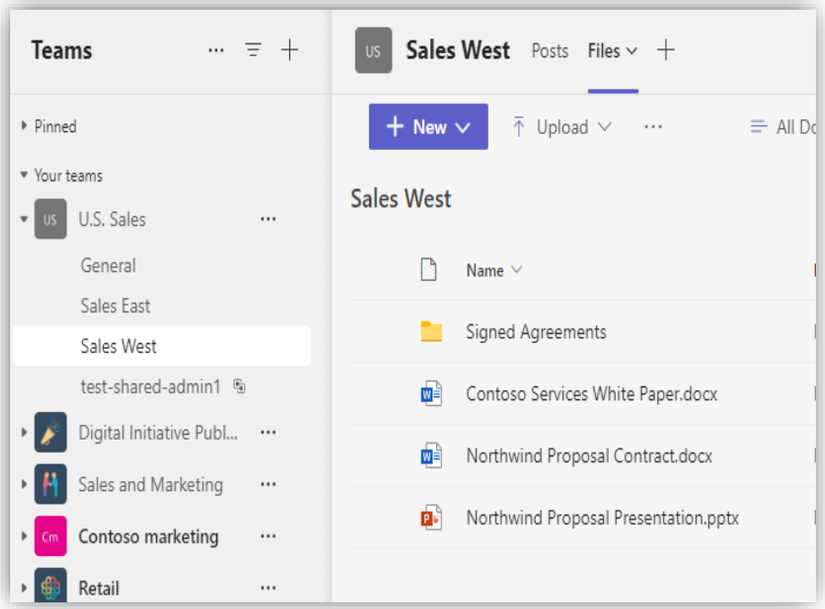
Create folder

Get thumbnails

Secured Sharing

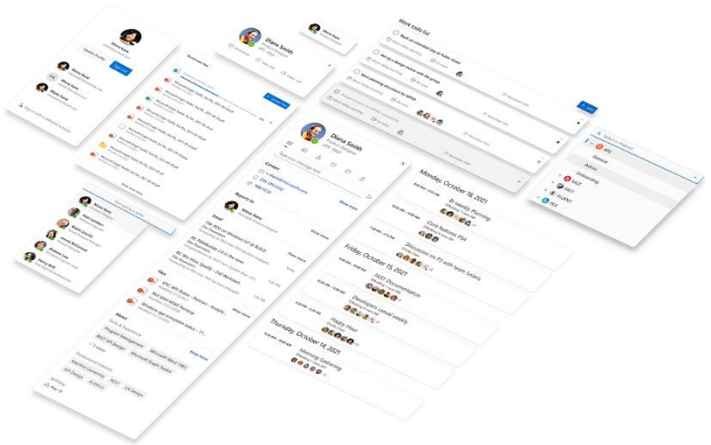
Store metadata against files


Activity
Chat
Teams
Calendar
Calls
Files
Viva Conne...
Apps
Calendar
Today
August 2023 - September 2023
28
Monday
1 PM
X1050 Marketing sync
Mark 8 Project Team / General
Megan Bowen
2 PM
Design editorial sync
Design / General
Megan Bowen
3 PM
Art Review
Mark 8 Project Team / Design
Megan Bowen
4 PM
5 PM


Teams
Pinned
Your teams
US
U.S. Sales
General
Sales East
Sales West
test-shared-admin1
Digital Initiative Publ...
Sales and Marketing
Cm
Contoso marketing
Retail
US
Sales West
Posts
Files
New
Upload
All Do
Sales West
Name
Signed Agreements
Contoso Services White Paper.docx
Northwind Proposal Contract.docx
Northwind Proposal Presentation.pptx

Microsoft Graph Toolkit

The Microsoft Graph Toolkit is a collection of reusable, framework-agnostic components and authentication providers for accessing and working with Microsoft Graph. The components are fully functional, customizable, and work with any web framework and on all modern browsers.



Microsoft Graph Toolkit

- ✓ Person, Person Card, People & People Picker
- ✓ Agenda
- ✓ File & File List
- ✓ To Do & Planner
- ✓ Teams Channel Picker
- ✓ Get & Generic Picker
- ✓ Conversation (1:1 & Group)

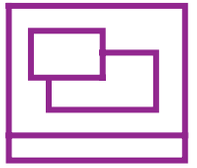
Why use Microsoft Graph Toolkit?

Cuts development time

Easily add UI components to access Microsoft Graph to your app with just a few lines of code

Beautiful, but flexible

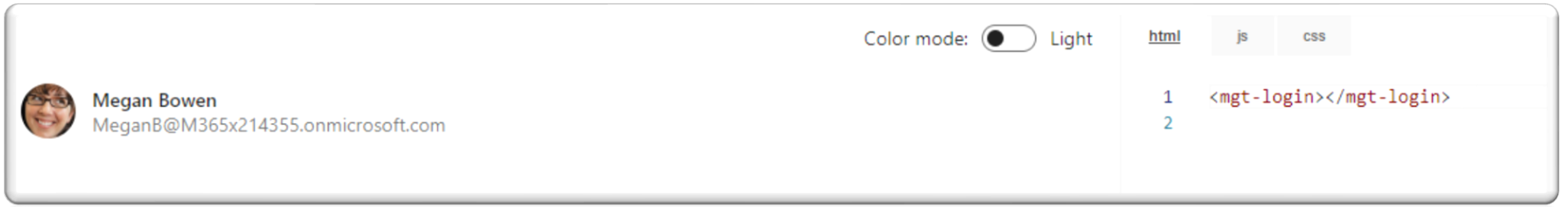
Built to look like an M365 experience, but fully customizable



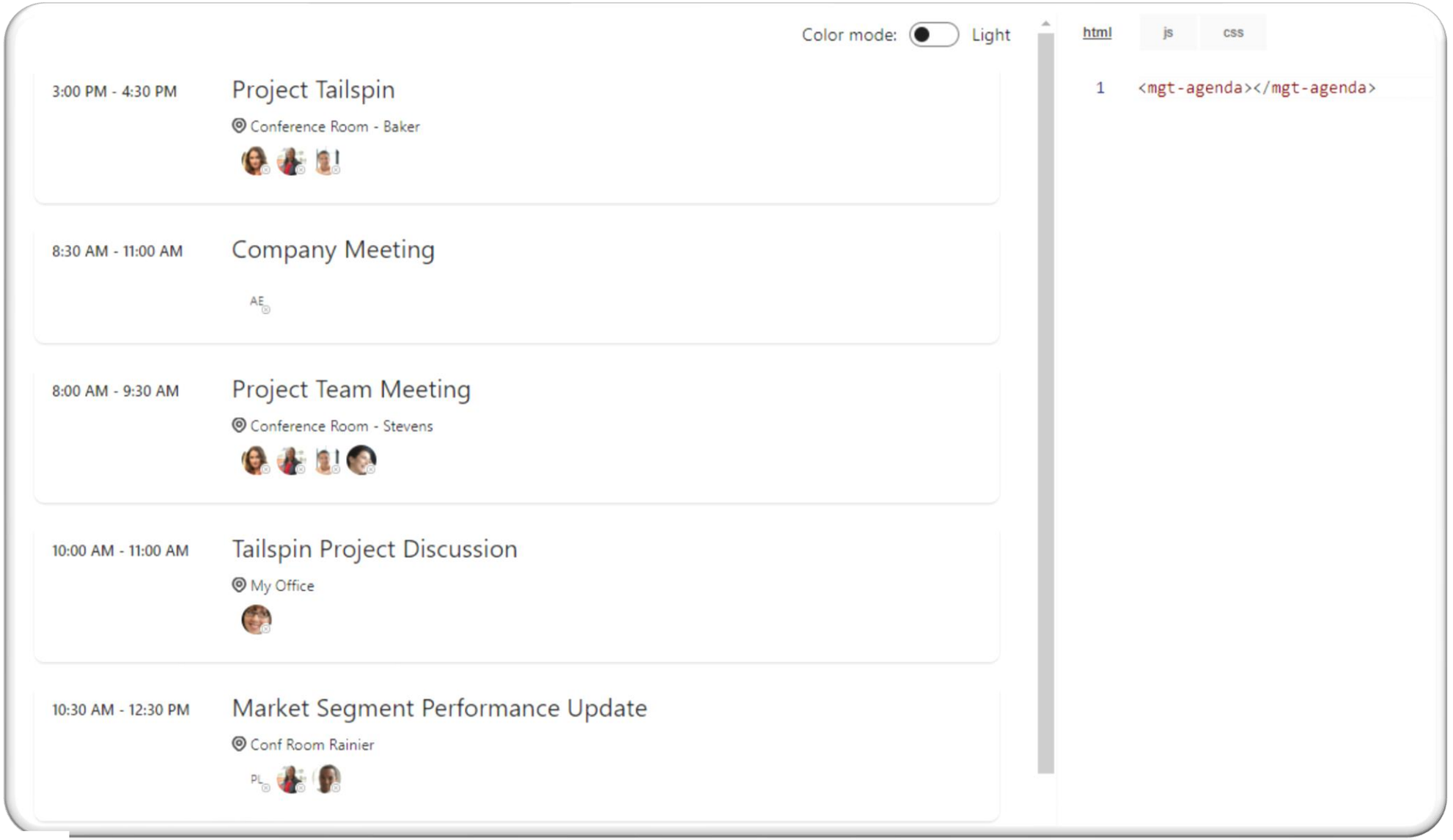
Works everywhere

Based on web standards and works with any web framework and modern browser

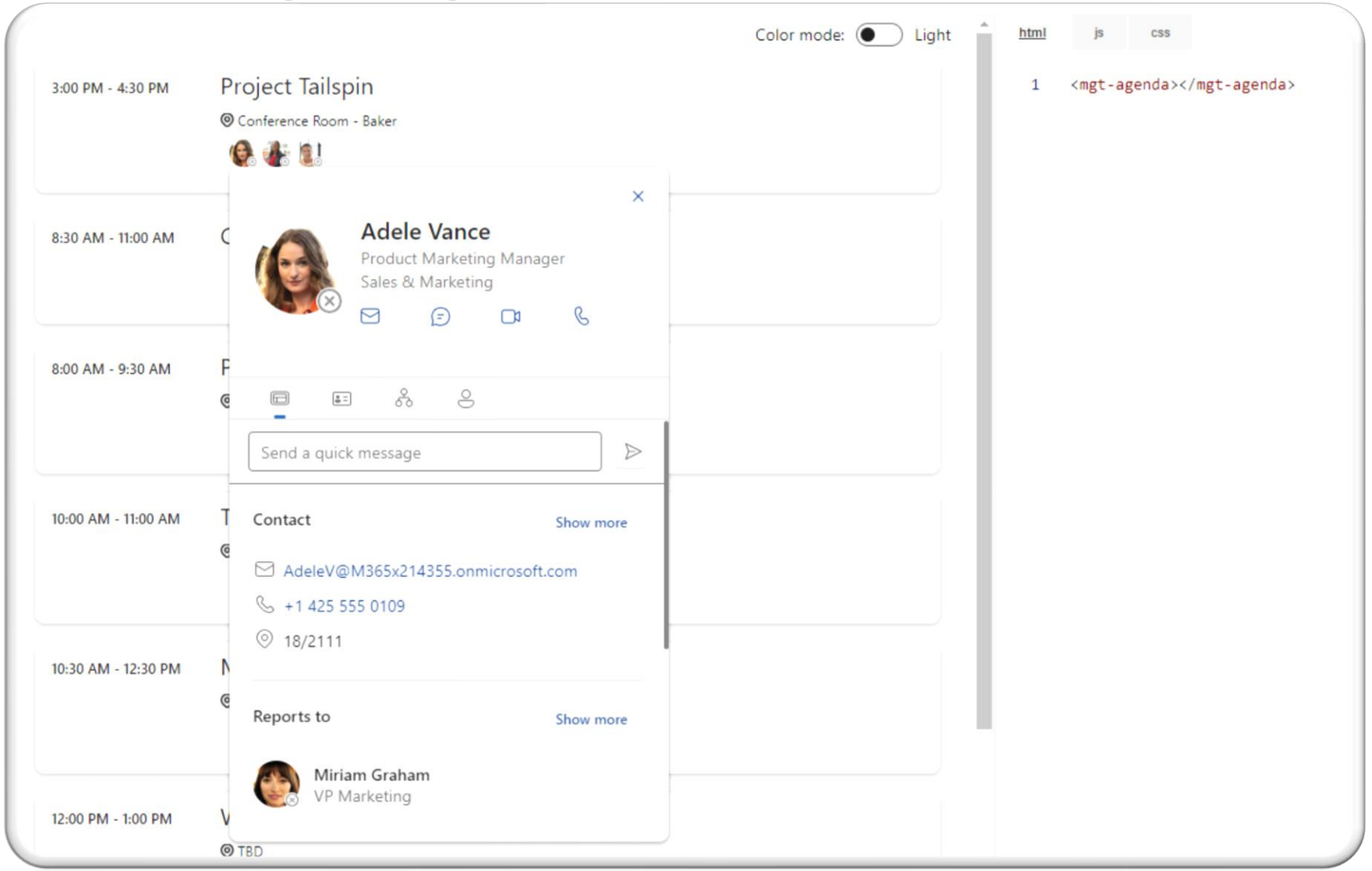
Authentication: mgt-login



calendar: mgt-agenda



calendar: mgt-agenda ..... contd



calendar: mgt-agenda ..... contd

The following example changes the behavior of the component to fetch data for a specific date and up to three days.

HTML Copy

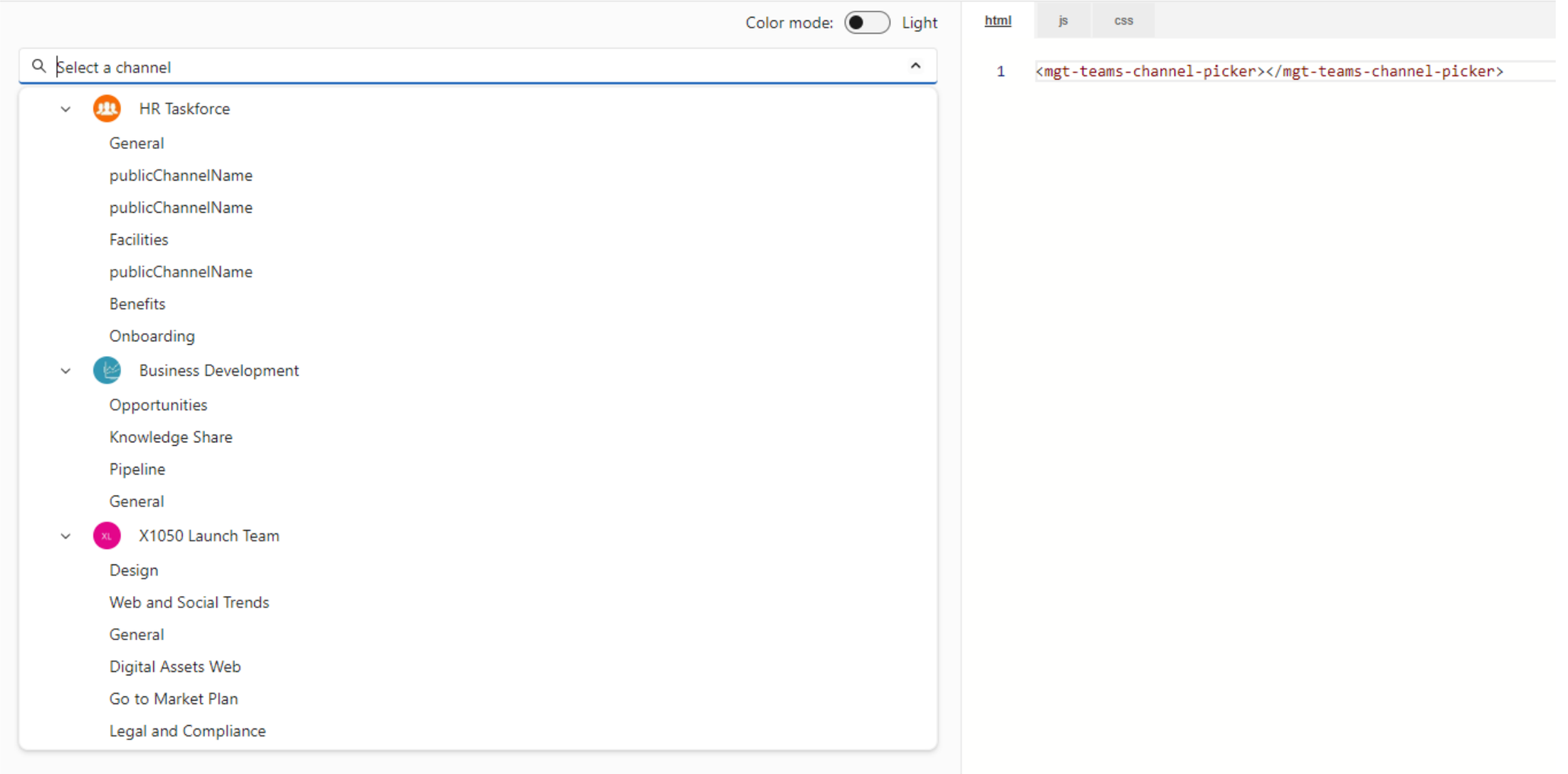
```
<mgt-agenda group-by-day date="May 7, 2019" days="3"></mgt-agenda>
```

The following example changes the behavior of the component to fetch data from a specific query.

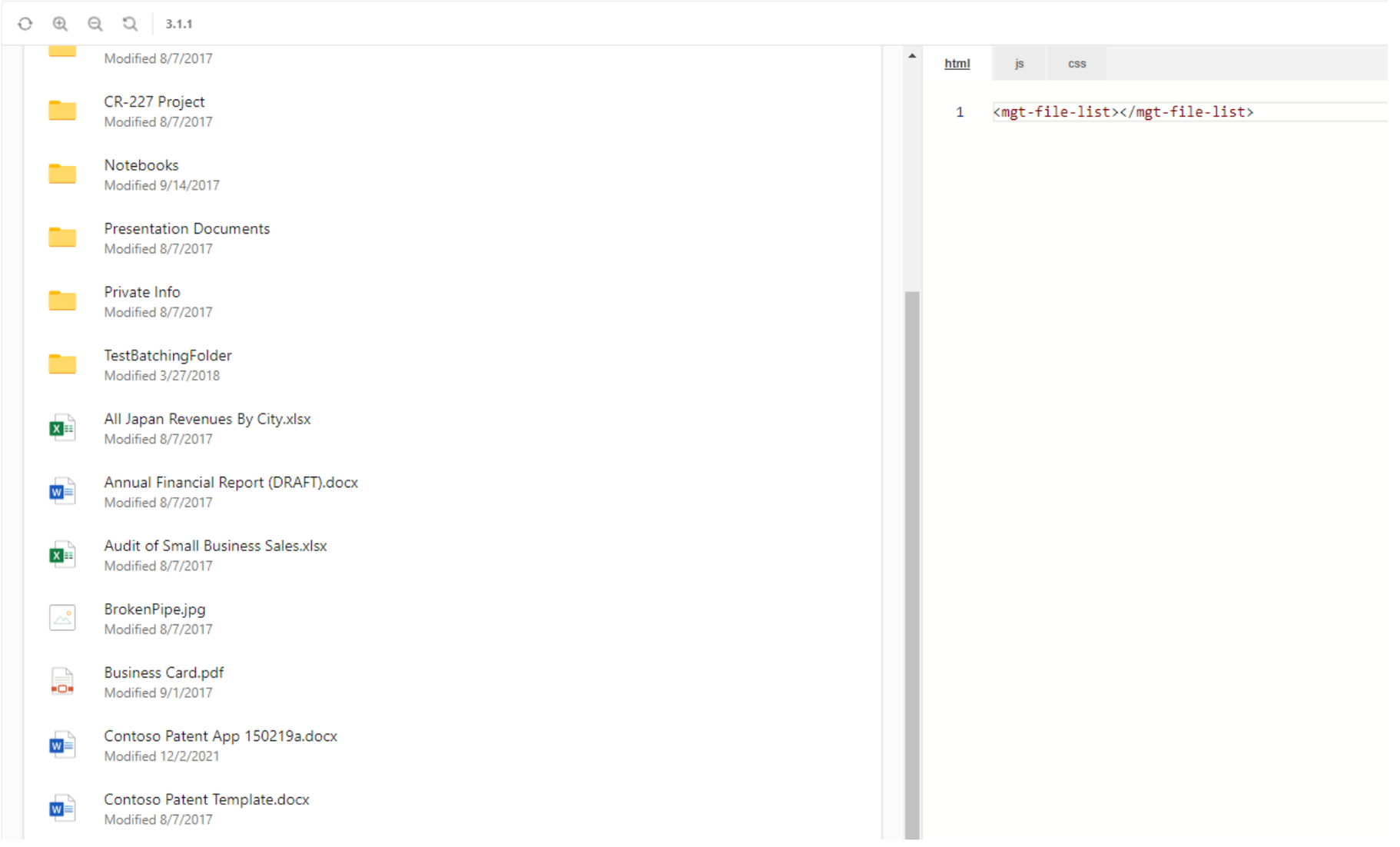
HTML Copy

```
<mgt-agenda event-query="/me/events?orderby=start/dateTime"></mgt-agenda>
```

teams: mgt-teams-channel-picker



files: mgt-file-list



Demo

Graph Toolkit Playground

Teams Demo App

Summary

- Microsoft Teams, among other M365 applications, is developed with a strong emphasis on interoperability and extensibility
- Developers can access data from a range of Microsoft 365 services through Microsoft Graph, a unified API endpoint
- To delve into the world of M365, create a developer account
- Leverage and contribute to Graph Toolkit, which is open source, to speed up your app development

Microsoft

Thank you

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