### Community Call

Using app only model with Microsoft Graph APIs for Planner

### Bio.tsx

```
return(
      <div>
            <img src="
            <Name>Anoop Tatti</Name>
            <Work>MVP, Developer, Content+Cloud, UK</Work>
            <Profile link="aka.ms/anoopt" />
            <Blog link="https://anoopt.medium.com" />
            <Twitter username="anooptells" />
            <GitHub username="anoopt" />
      </div>
);
```

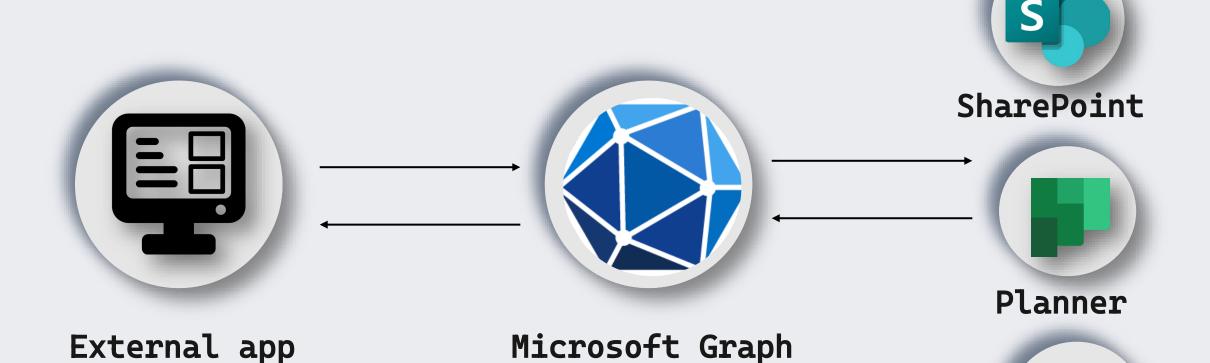
### Microsoft Graph



Microsoft Graph is the gateway to data and intelligence in Microsoft 365.

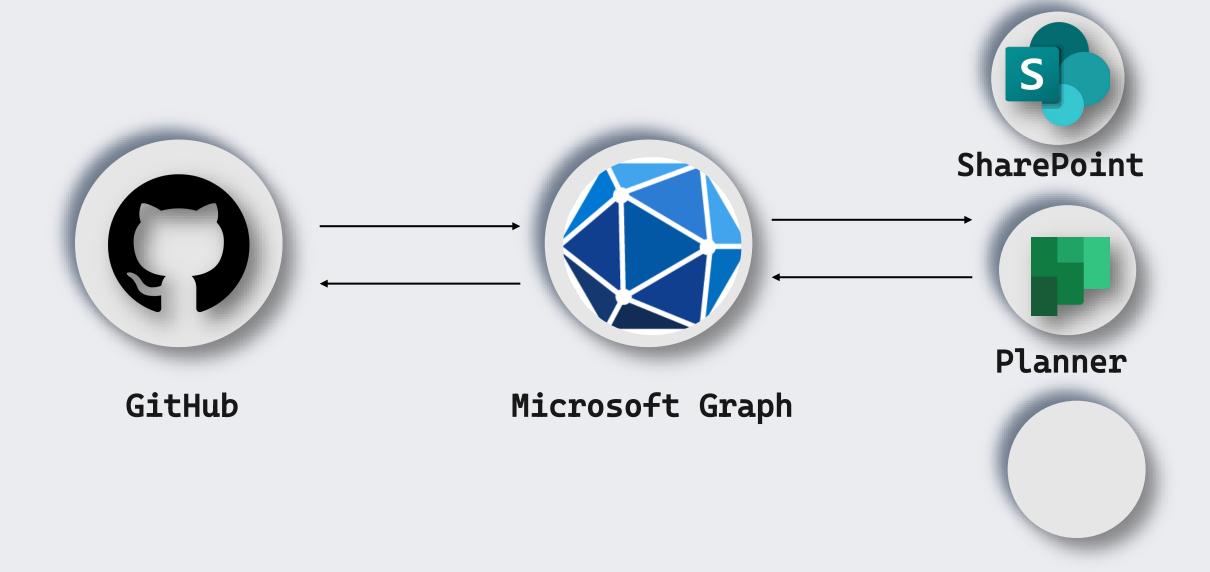
It provides a unified programmability model that you can use to access the tremendous amount of data in Microsoft 365, Windows, and Enterprise Mobility + Security.

# Interacting using Microsoft Graph



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# GitHub + Microsoft Graph



### GitHub + Microsoft Graph + Planner



#### **GitHub**

- GitHub workflow
- Runs on pull request
- GitHub Action
- Passes data to Graph

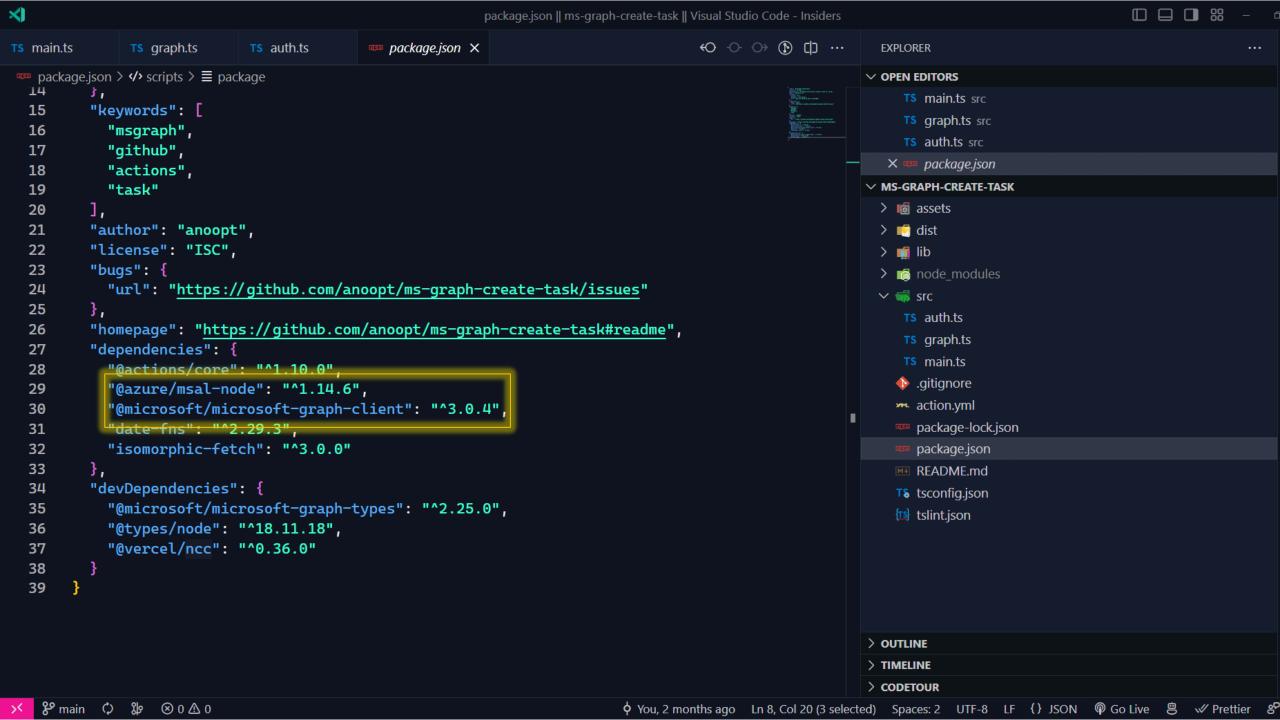
#### Microsoft Graph

- Verifies auth
- Uses app only permissions
- Creates a planner task

#### Planner

 User interaction with task

# Demo



```
X
TS main.ts
          X TS graph.ts
                            TS auth.ts
src > TS main.ts > ...
       You, 2 months ago | 1 author (You)
       import * as core from '@actions/core'; 34.4k (gzipped: 9.9k)
       import { PlannerTask } from "@microsoft/microsoft-graph-types";
   2
       import { addBusinessDays, format } from 'date-fns'; 24.2k (gzipped: 6.5k)
   3
       import Graph from './graph';
   4
   5
       async function run() {
   6
   7
   8
           const clientId: string = core.getInput('clientId', { required: true });
           const clientSecret: string = core.getInput('clientSecret', { required: true }
   9
           const tenantId: string = core.getInput('tenantId', { required: true });
  10
  11
  12
           const planId: string = core.getInput('planId', { required: true });
  13
           const title: string = core.getInput('title', { required: true });
           const userId: string = core.getInput('userId', { required: true });
  14
           const bucketId: string = core.getInput('bucketId') ? core.getInput('bucketId')
  15
           const dueByDate = core.getInput('dueByDate');
  16
           const dueByTime = core.getInput('dueByTime');
  17
           const description: string = core.getInput('description');
  18
           const priority: number = core.getInput('priority') ? parseInt(core.getInput('|
  19
           const orderHint: string = core.getInput('orderHint') ? core.getInput('orderHint')
  20
  21
  22
           const graph = new Graph(
  23
               clientId,
  24
               clientSecret,
               tenantId
  25
  26
           );
  27
  28
           const dueBy: string = dueByDate && dueByTime ? `${dueByDate}T${dueByTime}:00Z
  29
           const nextWeek: string = format(addBusinessDays(new Date(), 7), 'yyyy-MM-dd')
  30
           const dueDateTime: string = dueBy ? dueBy : `${nextWeek}T10:00:00Z`;
   هه main
          ♦ ♦ ♦ ♦ ♦
```

X

TS main.ts

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هه main

src > TS main.ts > ...

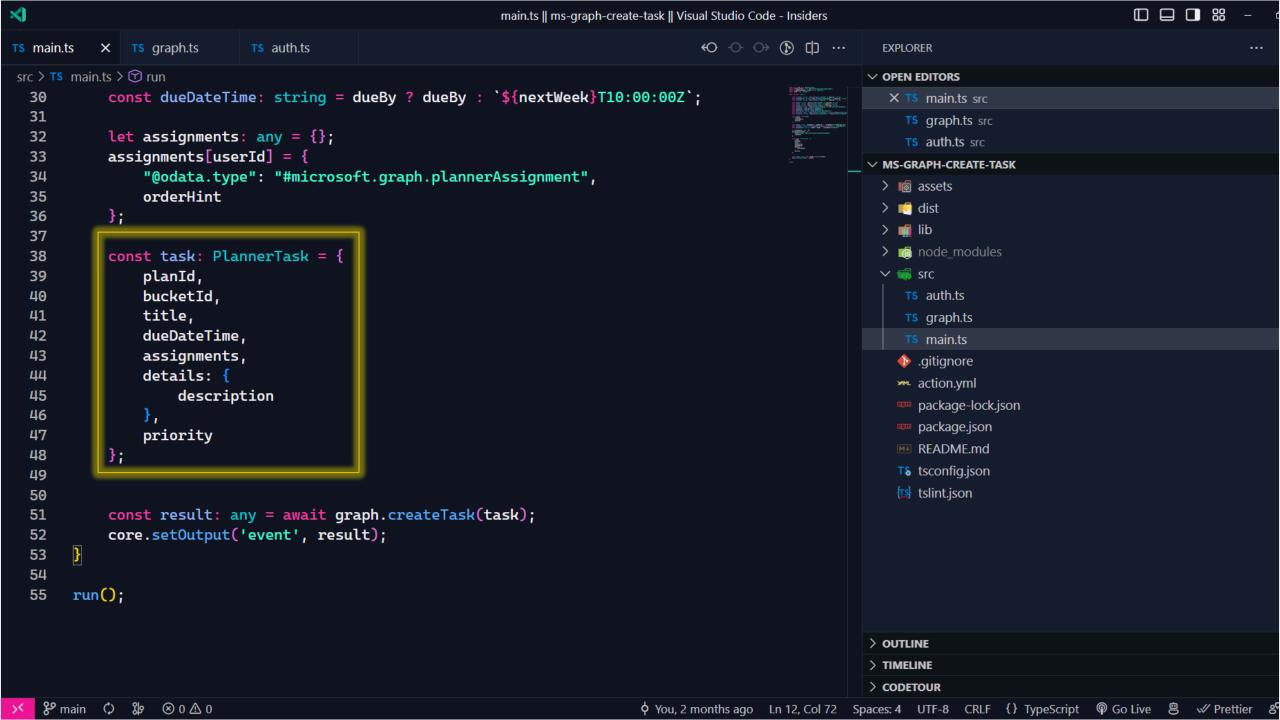
X TS graph.ts

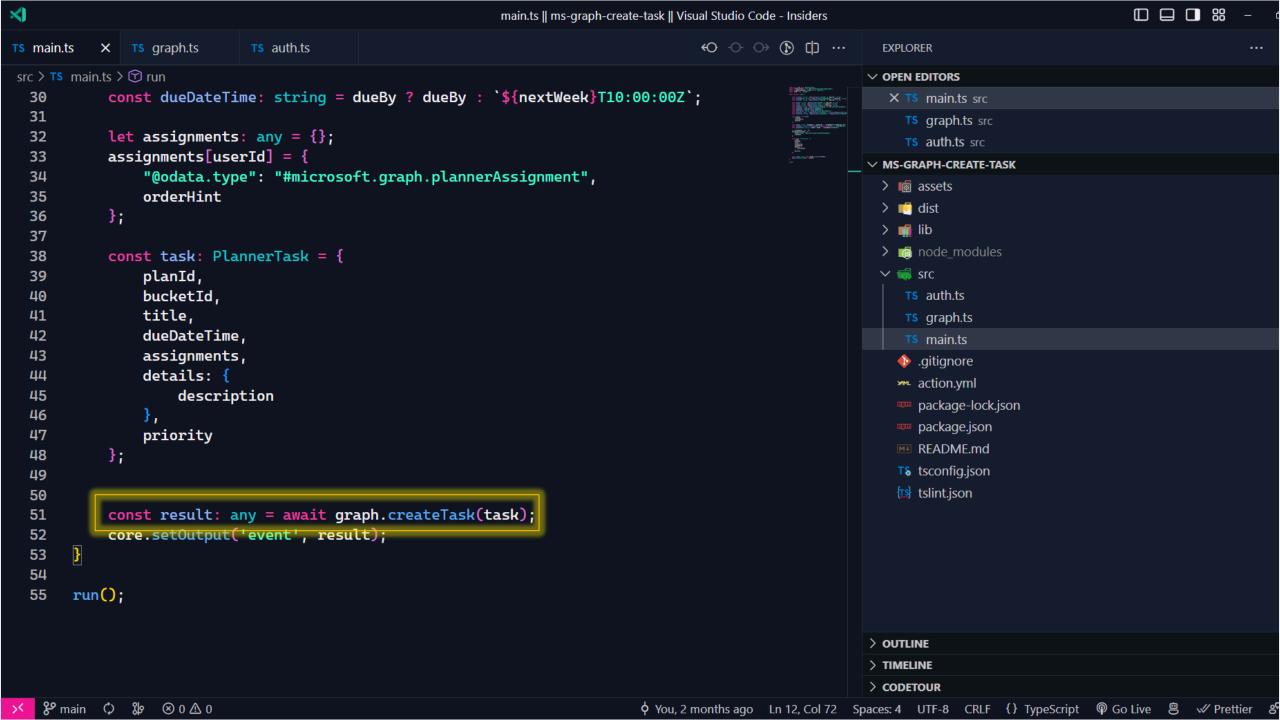
clientId,

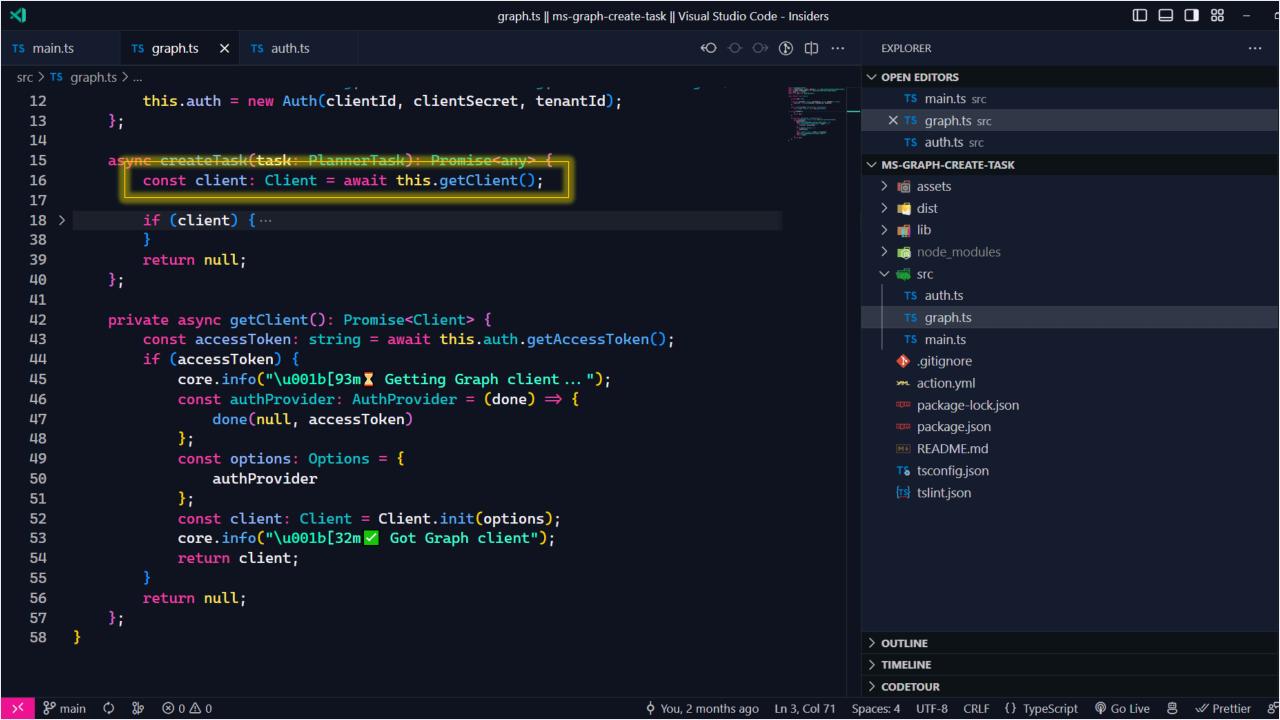
tenantId

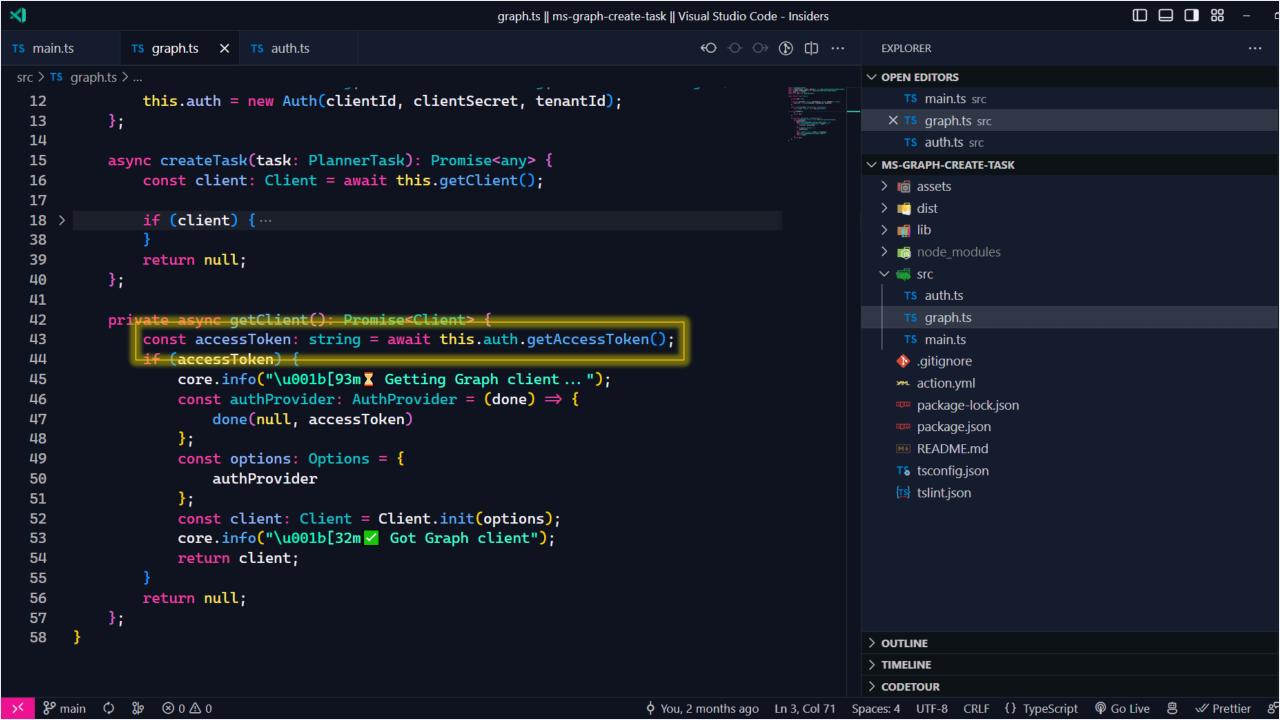
♦ ♦ ♦ ♦ ♦ ♦

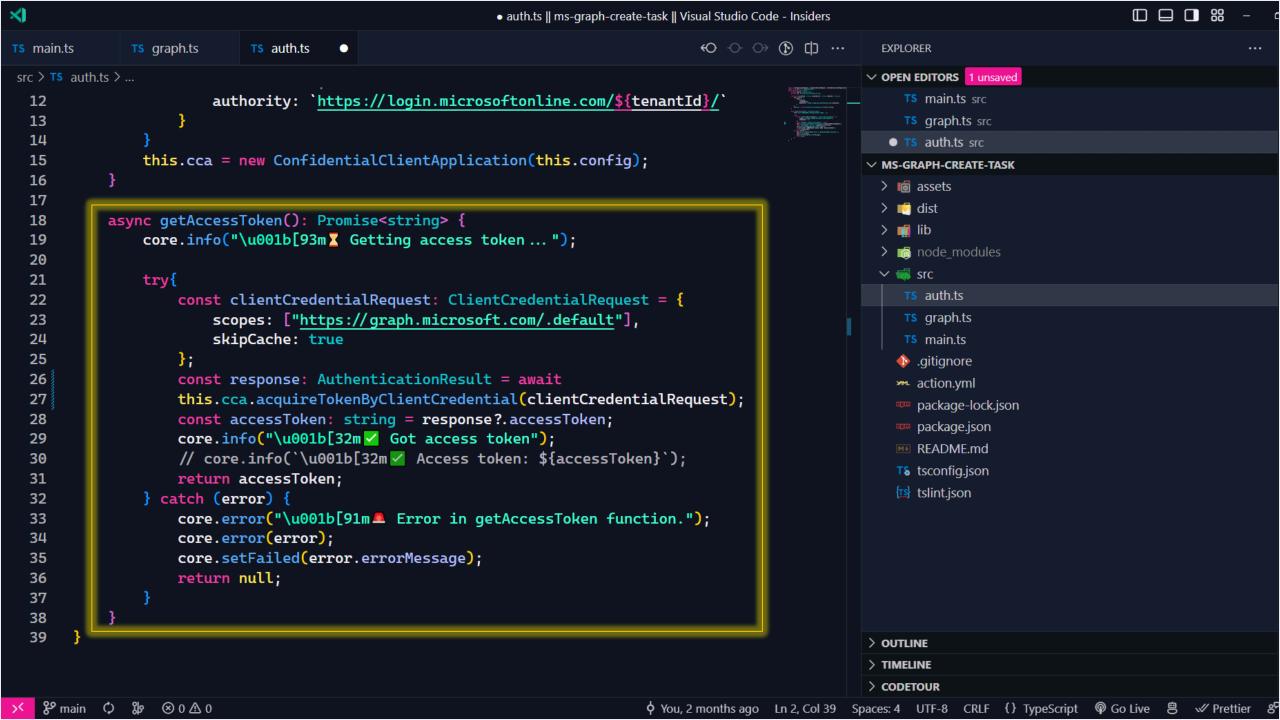
);

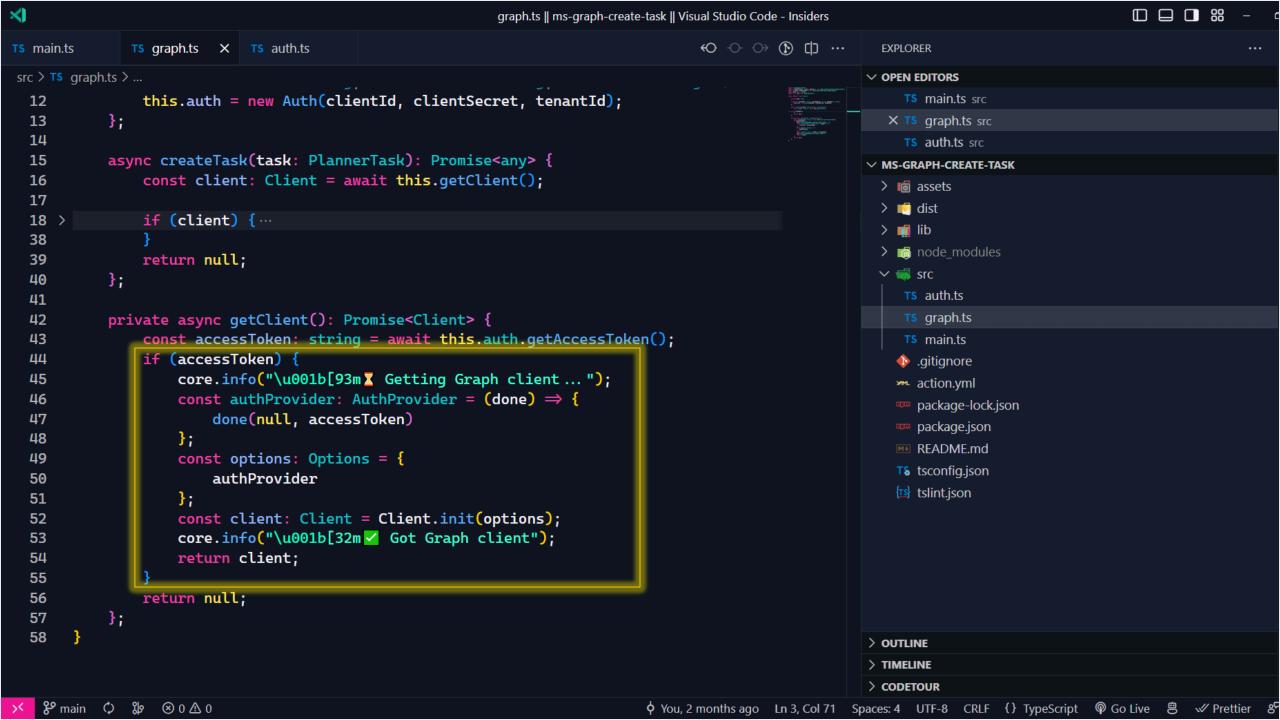












### Summary

- Microsoft Graph Planner API now has app only permissions
  - Delegated permissions already existed
- Azure AD app reg
  - Tasks.Read.All
  - Tasks.ReadWrite.All
- GitHub scenario
  - A GitHub action to create task
  - Runs on pull request

### Resources

- Docs
  - https://devblogs.microsoft.com/microsoft 365dev/new-microsoft-planner-apicapabilities-now-available-in-microsoftgraph/
- Workflow https://gist.github.com/anoopt/21a5ed9a

   251d7ae8eb991a310380a194
- Action https://github.com/marketplace/actions/
   create-a-task-with-microsoft-graph-using-msal

