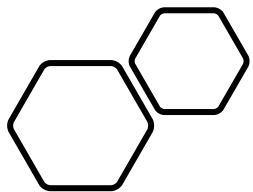




# Teams Meeting App using bot meeting details Api



Displaying details about the meeting and  
current participant with official  
supported Bot SDK Framework Api



## About me

- Markus Moeller
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- Proud dad of 1  (2yrs)





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**Displaying Meeting and  
Participant Details in TAB  
and with Task Modules**



# Prerequisites

- A Teams channel enabled Azure bot
- A meeting with at least one participant
- A Teams Bot/Tab app with specific
  - Teams manifest

# The Manifest


```
"configurableTabs": [  
  {  
    "configurationUrl": "https://{{PUBLIC_HOSTNAME}}/meetingDetails",  
    "canUpdateConfiguration": true,  
    "scopes": [  
      "groupchat"  
    ],  
    "context": [  
      "meetingChatTab",  
      "meetingDetailsTab",  
      "meetingSidePanel",  
      "meetingStage"  
    ],  
    "meetingSurfaces": [ ... ]  
  }  
],  
"staticTabs": [],  
"bots": [  
  {  
    "botId": "{{MICROSOFT_APP_ID}}",  
    "needsChannelSelector": true,  
    "isNotificationOnly": false,  
    "scopes": [  
      "groupchat"  
    ],  
    "commandLists": [ ... ]  
  }  
]
```

```
"authorization": {  
  "permissions": {  
    "resourceSpecific": [  
      {  
        "name": "OnlineMeeting.ReadBasic.Chat",  
        "type": "Application"  
      },  
      {  
        "name": "ChannelMeeting.ReadBasic.Group",  
        "type": "Application"  
      }  
    ]  
  }  
}
```

# Bot / Task Module flow

```
const taskModuleInfo: TaskInfo = {
  title: "Reload Details",
  card: JSON.stringify(initCardAttachment),
  width: 300,
  height: 250,
  completionBotId: process.env.MICROSOFT_APP_ID
};

tasks.startTask(taskModuleInfo, reloadMeetingDetailsCB);
```

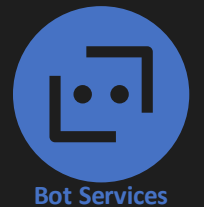
 **Tab Meeting Details**  
Reload Details


Meeting Details

This action reloads current meeting details.

Reload Meeting Details

```
protected async handleTeamsTaskModuleSubmit(_context: TurnContext, _taskModuleRequest: TaskModuleRequest) {
  switch (_taskModuleRequest.data.verb) {
    case "getMeetingDetails":
      const meetingID = _taskModuleRequest.data.data.meetingId;
      const meetingDetails = await TeamsInfo.getMeetingInfo(_context, meetingID) as IMeetingDetails;
      const card = getMeetingDetailsCard(meetingDetails);
      const Response: TaskModuleResponse = {
        task: {
          type: 'continue',
          value: {
            title: "Your Meeting Details",
            height: 500,
            width: "large",
            card: CardFactory.adaptiveCard(card),
          } as TaskModuleTaskInfo
        }
      };
      return Promise.resolve(Response);
  }
}
```



 **Tab Meeting Details**  
Your Meeting Details

Meeting Details demo

|                     |   |
|---------------------|---|
| Title               |   |
| ID                  | MCMxOTptZWV0aW5nX01UQXh0RGMOwldJdE4yTTVZaTAwWWpFNExl  |
| MSGraph Resource ID | MSO2Yzc2OTQ4YS03NTIwLTRjMzMtYmYzNy1iMWEzOWI3ODg1OWYqM   |
| Join Url            | https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTAwNDc4bc75-e8254ba77a21%22%2c%220id%22%3a%226c76948a-7520-4c33-10/19/2022 12:00:00 |
| Start               | 10/19/2022 12:00:00   |
| End                 | 10/19/2022 12:30:00   |
| Type                | Scheduled   |
| isGroup             | true  |
| conversationType    | groupChat   |
| conversationID      | 19:meeting_MTAwNDc4ZWItN2M5Yj00YjE4LTk5YWYtMzAwMWE5YzI3M  |
| OrganizerID         | 29:1tP9S1rArUm85kppcJrqopgugC1mDM1ZapbFI-5oaLjjimY2rJJ7cH9tel   |

# Use Bot SDK Rest Api

```
export class BotActivityHandler extends TeamsActivityHandler {  
  constructor(public conversationState: ConversationState, userState: UserState) {  
    super();  
    this.conversationState = conversationState;  
    this.onMessage(async (context, next) => { ...  
  });  
  
  this.onConversationUpdate(async (context, next) => {  
    store.setItem("serviceUrl", context.activity.serviceUrl);  
  });  
}
```

```
async function getMeetingDetails(req, res)  
{  
  const meetingId = req.params.meetingID;  
  const credentials = new MicrosoftAppCredentials(process.env  
  const token = await credentials.getToken();  
  const serviceUrl = store.getItem("serviceUrl");  
  const apiUrl = `${serviceUrl}/v1/meetings/${meetingId}`;  
  Axios.get(apiUrl, {  
    headers: {  
      Authorization: `Bearer ${token}`  
    })  
  .then((response) => {  
    res.send(response.data);  
  })  
}
```

# Alternative: SSO and MS Graph directly

- Use Meeting.id from context
- =encoded chat.id of meeting
- GET /chats/{chatID}
- Use joinWebUrl
- \$filter from /onlineMeetings
- Go further ...

Credits to  
@YannickReekmans





# Resources

- <https://mmsharepoint.wordpress.com/2022/08/04/teams-meeting-details-with-bot-framework-sdk/>  
[BlogPosts]
- <https://github.com/pnp/teams-dev-samples/tree/main/samples/tab-meeting-details>  
[PnP Sample]
- <https://learn.microsoft.com/en-us/microsoftteams/platform/apps-in-teams-meetings/meeting-apps-apis>  
[Microsoft Documentation]
- <https://blog.yannickreekmans.be/get-full-meeting-details-in-a-teams-meetings-app-without-using-bot-sdk/>  
*[Inofficial direct MS Graph alternative]*