

JMAP for Tasks

<https://www.ietf.org/archive/id/draft-ietf-jmap-tasks-05.html>

Reminder: JMAP for Tasks

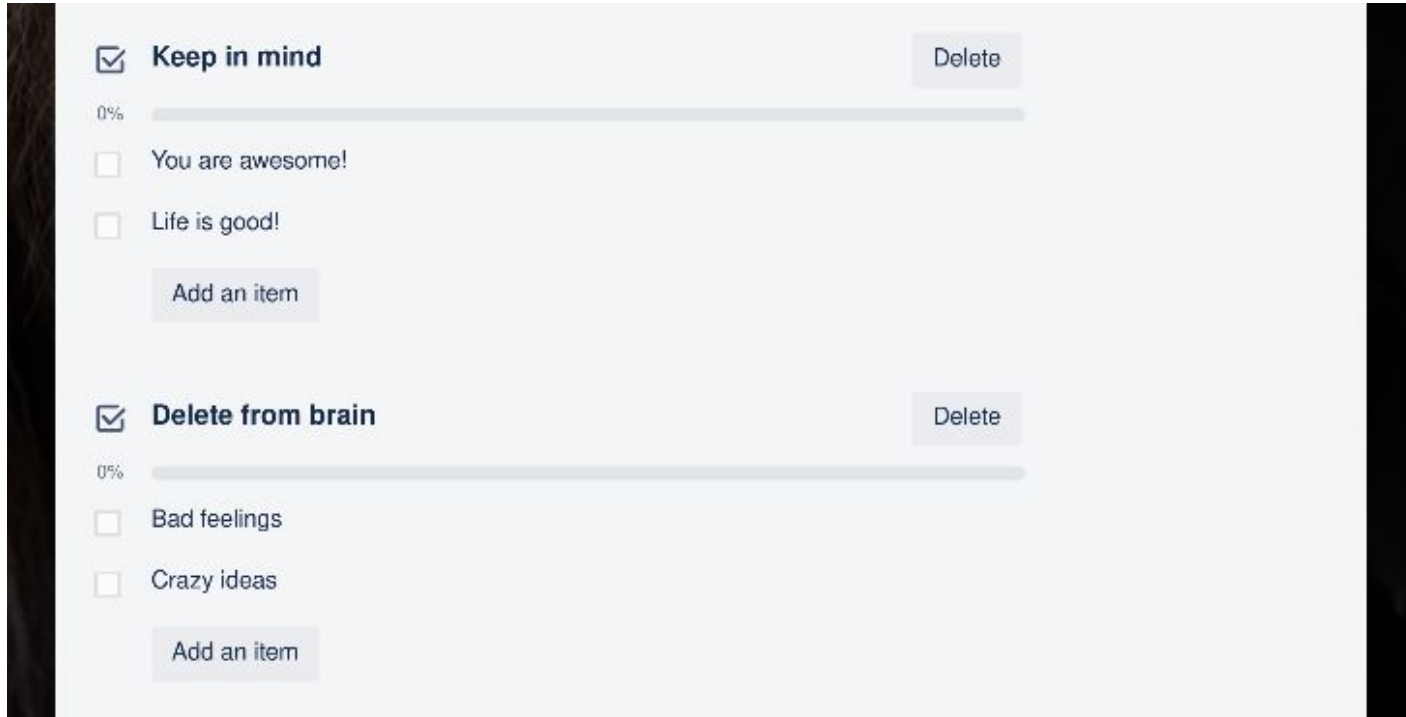
Goal: Make it a common standard, also for kanban boards and issue trackers

What's new in JMAP for Tasks v05?

Work in feedback from last IETF 114:

- estimatedWork - Only mention direction (larger is more work)
- Grouping: Describe scenario when client is using unsupported ...
 - capabilities: Server SHOULD throw an "urn:ietf:params:jmap:error:unknownCapability" error
 - extensions (e.g. properties): Server SHOULD store and ignore them

What could be new in JMAP for Tasks v06?



Checklists - State of the Art

- Present in Google Workspace, Microsoft To Do, Microsoft Planner, Factro, Clickup, Trello, 2Do, Wekan, ...
- Observed features:
 - Title (all)
 - Simple done or not done (all)
 - Item position in list (common)
 - Last modified stamp (common, API)
 - Item Assignee (Clickup UI, Trello API)
 - Multiple (named) check lists attached to a single task (Trello)

Checklists - iCalendar example

```
BEGIN:VCALENDAR
BEGIN:VEVENT
UID:uid1@example.com
SUMMARY:This is a Checklist
X-TYPE:Checklist
RELATED-TO;RELTYPE=CHILD:uid2
@example.com
END:VEVENT
END:VCALENDAR
```

```
BEGIN:VCALENDAR
BEGIN:VEVENT
UID:uid2@example.com
SUMMARY:This is an item on a
Checklist
RELATED-TO;RELTYPE=PARENT:
uid1@example.com
END:VEVENT
END:VCALENDAR
```

- No multiple Checklists attached to a task
- Can we do better?

Checklists - Proposal 1: Add new simple Object

Checklist is a very simple version of a Task

Add new Objects

- Checklist
- CheckItem

Add new property to Task:

- Checklist[] checklists

```
{
  "@type": "Task",
  "uid": "taskUid",
  "checklists": [
    {
      "@type": "Checklist",
      "title": "This is a checklist",
      "checkItems": [
        {
          "@type": "CheckItem",
          "title": "This is an item on a checklist",
          "sortOrder": 0,
          "updated": "2020-01-02T18:23:04Z",
          "isComplete": true,
          "assignee": "someUserId"
        }
      ]
    }
  ]
  "updated": "2020-01-02T18:23:04Z",
}
```

Checklists - Proposal 2: Extend values of existing Task.relation

```
{
  "@type": "Task",
  "uid": "taskId",
  "relatedTo": {
    "checklistUid": {
      "@type": "Relation",
      "relation": "checklistChild"
    }
  }
},
"updated": "2020-01-02T18:23:04Z",
```

```
{
  "@type": "Task",
  "uid": "checklistUid",
  "title": "This is a checklist",
  "relatedTo": {
    "taskId": {
      "@type": "Relation",
      "relation": "checklistParent"
    },
    "checkItemUid": {
      "@type": "Relation",
      "relation": "checkItemChild"
    }
  }
},
"updated":
"2020-01-02T18:23:04Z",
},
```

```
{
  "@type": "Task",
  "uid": "checklistUid",
  "title": "This is an item on a checklist",
  "progress": "completed",
  "sortOrder": 0,
  "updated": "2020-01-02T18:23:04Z",
  "relatedTo": {
    "checklistUid": {
      "@type": "Relation",
      "relation": "checkItemParent"
    }
  },
  "participants": {
    "someUserId": {
      "@type": "Participant",
      "roles": {
        "assignee": true
      }
    }
  }
},
}
```

Alternative to relation: Add new values for `@type` called "Checklist" and "ChecklistItem"?

Checklists - Any preference?

```
{
  "@type": "Task",
  "uid": "taskUid",
  "relatedTo": {
    "checklistUid": {
      "@type": "Relation",
      "relation": "checklistChild"
    }
  },
  "updated": "2020-01-02T18:23:04Z",
},
{
  "@type": "Task",
  "uid": "checklistUid",
  "title": "This is a checklist",
  "relatedTo": {
    "taskUid": {
      "@type": "Relation",
      "relation": "checklistParent"
    },
    "checkItemUid": {
      "@type": "Relation",
      "relation": "checkItemChild"
    }
  },
  "updated": "2020-01-02T18:23:04Z",
},
{
  "@type": "Task",
  "uid": "checklistUid",
  "title": "This is an item on a checklist",
  "progress": "completed",
  "sortOrder": 0,
  "updated": "2020-01-02T18:23:04Z",
  "relatedTo": {
    "checklistUid": {
      "@type": "Relation",
      "relation": "checkItemParent"
    }
  },
  "participants": {
    "someUserId": {
      "@type": "Participant",
      "roles": {
        "assignee": true
      }
    }
  }
},
}
```

```
{
  "@type": "Task",
  "uid": "taskUid",
  "checklists": [
    {
      "@type": "Checklist",
      "title": "This is a checklist",
      "checkItems": [
        {
          "@type": "CheckItem",
          "title": "This is an item on a
checklist",
          "sortOrder": 0,
          "updated": "2020-01-02T18:23:04Z",
          "isComplete": true,
          "assignee": "someUserId"
        }
      ]
    }
  ],
  "updated": "2020-01-02T18:23:04Z",
}
```

Future work for Tasks

- TaskList extensions
- REFID for grouping from iCalendar Tasks spec?
- Comments
- More feedback from vendors
- Continue survey
- ...

JMAP for Tasks

That is all.