# **Documentation For Appointify (P2)**

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## **Design of Models**

#### **Calendars**

- Description: Represents a calendar, which is a collection of events, schedules, and availability information.
- Fields:
- name: The name of the calendar.
- description : A brief description of the calendar (optional).
- start\_date: The start date of the calendar's effective period.
- end\_date: The end date of the calendar's effective period.
- created\_at: Timestamp of when the calendar was created, automatically set.
- updated\_at: Timestamp of the last update to the calendar, automatically updated.
- isfinalized: A boolean flag indicating whether the calendar has been finalized and no more changes are allowed.

#### **UserCalendars**

- Description: Associates users with calendars, indicating ownership or participation. Supports many-to-many relationships between User and Calendars.
- Fields:
- user: ForeignKey to the User model, indicating the user associated with a calendar.
- calendar: ForeignKey to the Calendars model, indicating the calendar associated with a user.
- non\_busy\_dates : ManyToManyField linking to NonBusyDate , indicating the user's non-busy dates within the context of this calendar.

## NonBusyDate

- Description: Represents a date on which a user is available or not busy.
- Fields:
- date: The specific date of availability.
- non\_busy\_times: ManyToManyField to NonBusyTime, indicating specific times on this date when the user is available.

#### **NonBusyTime**

- Description: Represents specific times on a non-busy date when a user is available.
- Fields:
- time: The specific time of availability.
- preference: A choice field indicating the user's preference level (high, medium, low) for scheduling during this time.

#### **Contact**

- Description: Represents a contact, potentially another user, that can be invited to events or for scheduling.
- Fields
- user: ForeignKey to User, indicating the owner of this contact.
- fname: The first name of the contact.
- Iname: The last name of the contact.
- email: The email address of the contact, unique across the system.
- is\_registered: A boolean indicating whether the contact is a registered user of the system.

#### **Event**

- Description: Represents an event scheduled within a calendar.
- Fields:
- calendar: ForeignKey to Calendars, indicating the calendar this event belongs to.
- owner: ForeignKey to User, indicating the user who owns/created this event.
- contact : ForeignKey to Contact , indicating the contact associated with this event.
- start\_time: The start time of the event.
- end\_time: The end time of the event.

#### **Schedule**

- Description: Represents a specific scheduled time slot within a calendar.
- Fields:
- calendar: ForeignKey to Calendars, indicating the associated calendar.
- start\_time : The start time of the schedule.
- end\_time: The end time of the schedule.
- owner: ForeignKey to User, indicating the user who owns this schedule.
- contact: ForeignKey to Contact, indicating the contact associated with this schedule.

#### **ScheduleGroup**

- Description: Represents a group of schedules that are related or created together as a set.
- Fields:
- schedules: ManyToManyField to Schedule, including all schedules that are part of this group.
- calendar: ForeignKey to Calendars, indicating the associated calendar.
- owner: ForeignKey to User, indicating the owner of this schedule group.

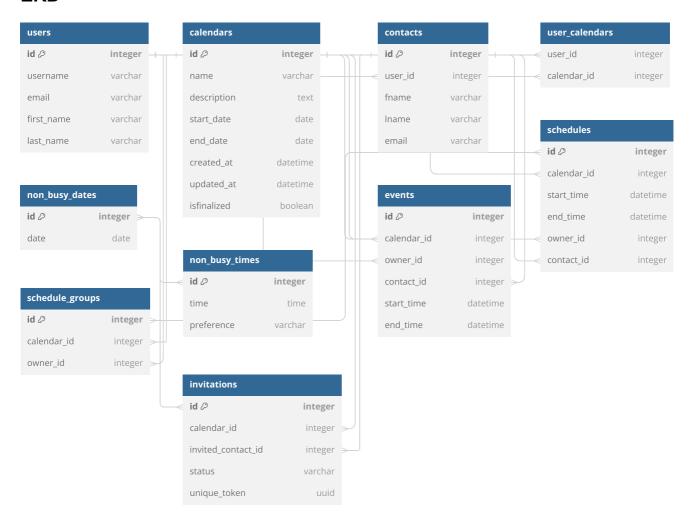
#### Invitation

• **Description**: Represents an invitation sent to a contact for participation in a calendar's events.

#### Fields:

- calendar: ForeignKey to Calendars, indicating the associated calendar.
- invited\_contact: ForeignKey to Contact, indicating the invited contact.
- status: A choice field indicating the status of the invitation (pending, declined, accepted).
- unique\_token: A UUID field used for unique identification or verification purposes.
- invited\_contact\_non\_busy\_dates : ManyToManyField to NonBusyDate, optionally linking to dates when the invited contact is available.

#### **ERD**



# **API Endpoints**

## Login User

Endpoint: auth/login

Method: POST

Description: Endpoint for User Authentication and Login.

Request Parameters:

"Username" - The username of the user.

"Password" - The password of the user.

Example:

Request: auth/login

```
"username": "razeen",
    "password": "razeenali"
}
```

Response:

200 OK

# Signup User

• Endpoint: auth/signup

Method: POST

• Description: Endpoint for User Registration.

Request Parameters:

"Username" - The username of the user.

"Password" - The password of the user.

"Email" - The email of the user.

Example:

Request: auth/signup

```
"username": "razeen",
"password": "razeenali",
"first_name": "Razeen",
"last_name": "Ali",
"email": "work@razeenali.com"
}
```

```
{
    "username": "razeen1"
}
```

## **View List of Calendars**

• Endpoint: calendars/all

Method: GET

Description: Display list of calendars for authenticated user.

Example:

Request: GET calendars/all

Response:

```
{
    "count": 1,
    "next": null,
    "previous": null,
    "results": [
        {
            "id": 1,
            "name": "TEST Calendar",
            "description": "THIS IS IT",
            "start_date": "2024-03-01",
            "end_date": "2024-03-31",
            "created_at": "2024-03-13T20:26:57.628330Z",
            "updated_at": "2024-03-13T20:26:57.628330Z",
            "isfinalized": false
        }
    ]
}
```

## **Create Calendar**

• Endpoint: calendars/create/

Method: POST

• Description: create a calendar for authenticated user.

Example:

Request: POST calendars/create/

```
"name": "TEST Calendar",

"description": "THIS IS IT",

"start_date": "2024-03-01",

"end_date": "2024-03-31"
}
```

#### Response:

```
"id": 1,
    "name": "TEST Calendar",
    "description": "THIS IS IT",
    "start_date": "2024-03-01",
    "end_date": "2024-03-31",
    "created_at": "2024-03-13T20:26:57.628330Z",
    "updated_at": "2024-03-13T20:26:57.628330Z",
    "isfinalized": false,
    "user_calendar_id": 1
}
```

# **Update Calendar**

- Endpoint: calendars/update/<int:pk>/
- Method: PUT
- Description: update specific calendar for authenticated user.
- URL Params: pk is the calendar id.

#### Example:

Request: PUT calendars/update/1/

```
"name": "Birthday Calendar",

"description": "THIS IS IT",

"start_date": "2024-03-01",
```

```
"end_date": "2024-03-31"
}
```

Response:

```
"id": 1,
    "name": "Birthday Calendar",
    "description": "THIS IS IT",
    "start_date": "2024-03-01",
    "end_date": "2024-03-31",
    "created_at": "2024-03-13T20:26:57.628330Z",
    "updated_at": "2024-03-13T20:26:57.628330Z",
    "isfinalized": false,
    "user_calendar_id": 1
}
```

## **View All Calendars with Preferences**

- Endpoint: calendars/user-calendars/
- Method: GET
- Description: view all calendars with preferences for authenticated user.

Example:

Request: GET calendars/user-calendars/

# Update User Preferences for a specific calendar (AFTER CREATION OF CALENDAR)

- Endpoint: calendars/user-calendars/<int:cid>/update/
- Method: PUT
- Description: update user preferences ( nonbusy date and nonbusy time) for a specific calendar for authenticated user.
- URL Params: cid is the calendar id.

#### Example:

Request: PUT calendars/user-calendars/18/update/

```
}

1
}
```

Response:

```
{
    {
        "id": 1,
        "user": 1,
        "calendar": 1,
        "non_busy_dates": [
            {
            "id": 1,
            "date": "2024-03-05",
            "non_busy_times": [
                {
                "id": 1,
                "time": "12:00:00",
                "preference": "low"
            ]
            }
       ]
   }
}
```

# **Delete User Calendar along with preferences**

- Endpoint: calendars/user-calendars/<int:pk>/delete/
- Method: DELETE
- Description: delete specific calendar with all user preferences.
- URL Params: pk is the calendar id.

## **View List of Contacts**

- Endpoint: /api/contacts/
- Method: GET
- Description: Display list of contacts for the authenticated user.

Example:

Request: GET /api/contacts/

```
[
   {
        "id": 1,
        "fname": "Victor",
        "lname": "Ma",
        "email": "victor.ma@example.com"
   },
    {
        "id": 2,
        "fname": "Neha",
       "lname": "Sohail",
        "email": "neha.sohail@example.com"
   },
    {
       "id": 3,
        "fname": "Dev",
        "lname": "Singhvi",
        "email": "dev.singhvi@example.com"
   },
    {
        "id": 4,
        "fname": "Razeen",
        "lname": "Ali",
        "email": "razeen.ali@example.com"
   }
```

## **Create Contact**

• Endpoint: /api/contacts/create/

Method: POST

• Description: Create a new contact for the authenticated user.

Example:

Request: POST /api/contacts/create/

```
"fname": "Alice",
   "lname": "Smith",
   "email": "alice.smith@example.com"
}
```

#### Response:

```
"id": 5,

"fname": "Alice",

"lname": "Smith",

"email": "alice.smith@example.com"
}
```

## **Update Contact**

• Endpoint: /api/contacts/update/<int:pk>/

Method: PUT, PATCH

- Description: Update specific contact details for the authenticated user.
- URL Params: pk is the contact ID.

Example:

Request: PATCH /api/contacts/update/5/

```
{
"lname": "Johnson"
```

```
}
```

Response:

```
"id": 5,

"fname": "Alice",

"lname": "Johnson",

"email": "alice.smith@example.com"
}
```

# **View Single Contact**

• Endpoint: /api/contacts/<int:pk>/

Method: GET

• Description: View details of a single contact for the authenticated user.

URL Params: pk is the contact ID.

Example:

Request: GET /api/contacts/5/

Response:

```
"id": 5,

"fname": "Alice",

"lname": "Johnson",

"email": "alice.smith@example.com"
}
```

## **Delete Contact**

• Endpoint: /api/contacts/<int:pk>/delete/

Method: DELETE

Description: Delete a specific contact.

URL Params: pk is the contact ID.

Example:

Request: DELETE /api/contacts/5/delete/

```
{
    "message": "Contact deleted successfully."
}
```

**Events** 

## **Get All Info for a Calendar**

- Endpoint: events/availability\_data?calendar\_id=pk
- Method: GET
- Description: Invite a user to a specific calendar.
- URL Params: pk is the calendar ID.
- Response:

```
[
   {
        "user_id": "razeen",
        "user_non_busy_dates": [
            {
                "id": 1,
                "non_busy_times": [
                    {
                        "id": 1,
                        "time": "18:00:00",
                        "preference": "low"
                    },
                    {
                        "id": 2,
                        "time": "16:00:00",
                        "preference": "high"
                    },
                    {
                        "id": 3,
                        "time": "16:00:00",
                        "preference": "low"
                    },
```

```
"id": 4,
               "time": "18:00:00",
             "preference": "high"
          }
         ],
         "date": "2025-05-05"
      },
      {
         "id": 2,
          "non_busy_times": [
           {
               "id": 1,
               "time": "18:00:00",
              "preference": "low"
            },
            {
               "id": 2,
               "time": "16:00:00",
              "preference": "high"
          }
         ],
      "date": "2024-05-05"
 }
]
},
{
   "accepted": [
     {
         "id": 2,
          "fname": "Dev",
          "lname": "S",
          "email": "dev@mail.com",
```

```
"status": "accepted",
"non_busy_dates": [
 {
      "id": 1,
      "non_busy_times": [
        {
           "id": 1,
           "time": "18:00:00",
           "preference": "low"
         },
         {
            "id": 2,
            "time": "16:00:00",
           "preference": "high"
         },
         {
           "id": 3,
           "time": "16:00:00",
           "preference": "low"
         },
         {
           "id": 4,
           "time": "18:00:00",
         "preference": "high"
        }
      ],
     "date": "2025-05-05"
  },
   {
      "id": 3,
      "non_busy_times": [
       {
      "id": 2,
```

```
"time": "16:00:00",
                 "preference": "high"
              },
              {
                 "id": 5,
                 "time": "10:00:00",
                "preference": "low"
            }
          ],
          "date": "2025-05-04"
     }
  ]
},
{
   "id": 1,
   "fname": "Raz",
   "lname": "A",
   "email": "raz@mail.com",
   "status": "accepted",
   "non_busy_dates": [
     {
          "id": 1,
          "non_busy_times": [
             {
                "id": 1,
                 "time": "18:00:00",
                "preference": "low"
             },
              {
                 "id": 2,
                 "time": "16:00:00",
                 "preference": "high"
```

```
"id": 3,
                   "time": "16:00:00",
                  "preference": "low"
                },
                {
                  "id": 4,
                   "time": "18:00:00",
                  "preference": "high"
               }
             ],
             "date": "2025-05-05"
         },
          {
             "id": 3,
             "non_busy_times": [
               {
                  "id": 2,
                   "time": "16:00:00",
                  "preference": "high"
               },
                {
                  "id": 5,
                  "time": "10:00:00",
                "preference": "low"
               }
             ],
            "date": "2025-05-04"
  ]
 }
],
"declined": [],
```

```
"pending": []
}
```

# **Get Suggested Schedules**

- Endpoint: events/create\_event?calendar\_id=1
- Method: GET
- Description: Get suggested schedules a specific calendar.
- URL Params: pk is the calendar ID.
- Response:

```
{
    "schedule_groups": [
        {
            "schedule_group_id": 3,
            "schedules": [
                {
                    "schedule_id": 5,
                    "date": "2025-05-05",
                    "time": "16:00:00",
                    "owner": "razeen",
                    "contact": "Dev"
                },
                {
                    "schedule_id": 6,
                    "date": "2025-05-05",
                    "time": "18:00:00",
                    "owner": "razeen",
                    "contact": "Raz"
            ]
        },
        {
            "schedule_group_id": 4,
```

```
"schedules": [
                {
                    "schedule_id": 7,
                    "date": "2025-05-05",
                    "time": "18:00:00",
                    "owner": "razeen",
                    "contact": "Dev"
                },
                {
                    "schedule_id": 8,
                    "date": "2025-05-05",
                    "time": "16:00:00",
                    "owner": "razeen",
                    "contact": "Raz"
            ]
        }
    ]
}
```

# **Finalize Schedule**

Endpoint: events/create\_event/

Method: POST

• Description: Finalize an event

Payload:

```
{
    "calendar_id":1,
    "schedule_group_id": 4
}
```

```
{
```

```
"detail": "Events created and calendar finalized successfully.",
    "events": [
       {
            "event_id": 1,
            "start_time": "2025-05-05 18:00:00",
            "end_time": "2025-05-05 19:00:00",
            "contact": "Dev"
       },
        {
            "event_id": 2,
            "start_time": "2025-05-05 16:00:00",
            "end_time": "2025-05-05 17:00:00",
            "contact": "Raz"
       }
    ]
}
```

## **Invite User to Calendar**

Endpoint: notify/calendars/invite/

Method: POST

• Description: Invite a user to a specific calendar.

Payload:

```
{
    "calendar_id": 1,
    "contact_id": 4
}
```

· Response:

```
"detail": "Invitation email sent successfully to user@mail.com",

"invitation": {
    "id": 4,
```

```
"calendar": 1,

"invited_contact": 4,

"status": "pending",

"invited_contact_non_busy_dates": [],

"unique_token": "22ac6b7d-98f8-46e3-b372-5cb85d78a305"
}
```

## **Send Reminder**

- Endpoint: notify/calendars/reminder/
- Method: POST
- Description: Send a reminder email for a pending invitation.
- Payload:

```
"calendar_id": 1,
    "contact_id": 4
}
```

· Response:

```
"detail": "Reminder email sent successfully to user@mail.com",

"invitation": {

    "id": 4,

    "calendar": 1,

    "invited_contact": 4,

    "status": "pending",

    "invited_contact_non_busy_dates": [],

    "unique_token": "22ac6b7d-98f8-46e3-b372-5cb85d78a305"
}
```

# **Notify Finalized Schedule**

- Endpoint: notify/calendars/notify\_finalized/
- Method: GET
- Description: Notify all users of a finalized schedule/event.
- Payload:

```
"calendar_id": 1
}
```

· Response:

## **View Status**

- Endpoint: notify/calendars/status/?status=<str:status>&calendar\_id=<int:pk>
- Method: GET
- Description: View the status of invitations for calendars.
- Query Parameters: status is the status of the invitation, calendar\_id is the calendar ID.
- Response:

```
"count": 1,
"next": null,
"previous": null,
```

# **Invited User Landing**

- Endpoint: notify/invited\_user\_landing/<uuid:unique\_link>/
- Method: GET, POST
- Description: Get owner's preferences on GET, save availability data on POST.
- Response (GET):

```
"date": "2025-05-05"
       },
       {
           "id": 14,
           "non_busy_times": [
              {
                  "id": 36,
                   "time": "16:00:00",
                   "preference": "high"
               },
               {
                   "id": 37,
                   "time": "18:00:00",
                   "preference": "low"
              }
           ],
           "date": "2024-05-05"
      }
   ],
   "invitation": {
       "id": 2,
       "calendar": 1,
       "invited_contact": 2,
       "status": "accepted",
       "invited_contact_non_busy_dates": [],
       "unique_token": "72817e4c-1450-4ef9-b78c-ee3d1120015c"
   }
}
```

• Payload (POST):

```
{
   "non_busy_dates": [
```

```
"date": "2025-05-05",
        "non_busy_times": [
           {
               "time": "16:00:00",
               "preference": "low"
           },
            {
               "time": "18:00:00",
               "preference": "high"
           }
       ]
    },
    {
        "date": "2025-05-04",
        "non_busy_times": [
           {
               "time": "10:00:00",
               "preference": "low"
           },
            {
               "time": "16:00:00",
               "preference": "high"
      ]
  }
]
```

Response (POST):

```
{
    "detail": "user1 preferences updated for this calendar",
```

```
"invitation": {
   "id": 2,
   "calendar": 1,
   "invited_contact": 2,
   "status": "accepted",
   "invited_contact_non_busy_dates": [
     {
          "id": 18,
           "non_busy_times": [
             {
                  "id": 33,
                  "time": "16:00:00",
                  "preference": "low"
              },
               {
                  "id": 34,
                  "time": "18:00:00",
                  "preference": "high"
              },
               {
                  "id": 36,
                  "time": "16:00:00",
                  "preference": "high"
              },
               {
                  "id": 37,
                  "time": "18:00:00",
                  "preference": "low"
             }
           ],
          "date": "2025-05-05"
      },
```

```
"id": 19,
                "non_busy_times": [
                   {
                        "id": 35,
                        "time": "10:00:00",
                        "preference": "low"
                   },
                    {
                        "id": 36,
                        "time": "16:00:00",
                        "preference": "high"
                   }
                ],
                "date": "2025-05-04"
           }
        ],
        "unique_token": "72817e4c-1450-4ef9-b78c-ee3d1120015c"
   }
}
```

## **Invited User Decline**

- Endpoint: notify/invited\_user\_landing/<uuid:unique\_link>/decline
- Method: GET
- Description: Declines a users availability for a calendar on GET.
- Response (GET):

```
"detail": "Invitation declined successfully",

"invitation": {

    "id": 2,

    "calendar": 1,

    "invited_contact": 2,

    "status": "declined",

    "invited_contact_non_busy_dates": [
```

```
{
   "id": 18,
   "non_busy_times": [
     {
        "id": 33,
          "time": "16:00:00",
        "preference": "low"
      },
       {
          "id": 34,
          "time": "18:00:00",
         "preference": "high"
      },
       {
         "id": 36,
          "time": "16:00:00",
         "preference": "high"
      },
          "id": 37,
          "time": "18:00:00",
        "preference": "low"
    }
   ],
   "date": "2025-05-05"
},
{
   "id": 19,
   "non_busy_times": [
     {
          "id": 35,
          "time": "10:00:00",
          "preference": "low"
```

```
},
{
    "id": 36,
    "time": "16:00:00",
    "preference": "high"
}

l,
    "date": "2025-05-04"
}

l,
    "unique_token": "72817e4c-1450-4ef9-b78c-ee3d1120015c"
}
```