

API DOCUMENTATION

Conversation MicroService

openapi: 3.0.0
info:
 title: AI Conversation API
 description: API to interact with an AI chat service
 version: 1.0.0
paths:
 /chat:
 post:
 summary: Get AI Chat Response
 description: Sends a chat prompt to the AI service and returns the response.
 requestBody:
 description: The chat prompt to send to the AI service
 required: true
 content:
 application/json:
 schema:
 type: string
 example: "Hello, how are you?"
 responses:
 '200':
 description: AI response received
 content:
 application/json:
 schema:
 type: string
 example: "I'm doing well, thank you!"
 '400':
 description: Invalid request
 '500':
 description: Internal server error

Person MicroService

openapi: 3.0.0
info:
 title: User Authentication API
 description: API for user login, registration, and retrieval
 version: 1.0.0
paths:
 /login:
 post:
 summary: User Login
 description: Authenticates the user and returns a JWT token.
 requestBody:
 description: User credentials for login
 required: true

```

    content:
      application/json:
        schema:
          $ref: '#/components/schemas/CredentialsDto'
  responses:
    '200':
      description: Successfully authenticated
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/UserDto'
    '400':
      description: Invalid credentials
    '500':
      description: Server error
/register:
  post:
    summary: User Registration
    description: Registers a new user and returns the user data with a JWT token.
    requestBody:
      description: User details for registration
      required: true
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/SignUpDto'
    responses:
      '201':
        description: Successfully registered
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/UserDto'
      '400':
        description: Invalid input data
      '500':
        description: Server error
/users/{id}:
  get:
    summary: Get User by ID
    description: Retrieves a user by their ID.
    parameters:
      - name: id
        in: path
        required: true
        schema:
          type: integer
        description: ID of the user to retrieve
    responses:
      '200':
        description: User found
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/UserDto'
      '404':
        description: User not found

```

'500':
description: Server error

components:

schemas:

CredentialsDto:

type: object

properties:

login:

type: string

example: "john_doe"

password:

type: string

example: "password123" # Note: Password should be char[] but displayed as string here for

simplicity

SignUpDto:

type: object

properties:

firstName:

type: string

example: "John"

lastName:

type: string

example: "Doe"

login:

type: string

example: "john_doe"

password:

type: string

example: "password123" # Password represented as string for simplicity

UserDto:

type: object

properties:

id:

type: integer

example: 1

login:

type: string

example: "john_doe"

email:

type: string

example: "john.doe@example.com"

token:

type: string

example: "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."

Emergency MicroService

openapi: 3.0.0

info:

title: Location Sharing API

description: API to share location information via SMS.

version: 1.0.0

paths:

- /api/location/share:
 - post:
 - summary: Share Location via SMS
 - description: Shares a location with a list of phone numbers by sending an SMS.
 - requestBody:
 - description: Location information and phone numbers to share the location with
 - required: true
 - content:
 - application/json:
 - schema:
 - \$ref: '#/components/schemas/LocationRequest'
 - responses:
 - '200':
 - description: SMS sent successfully
 - '400':
 - description: Bad request, invalid location or phone number format
 - '500':
 - description: Internal server error

components:

- schemas:
 - LocationRequest:
 - type: object
 - properties:
 - lat:
 - type: number
 - format: double
 - description: Latitude of the location
 - example: 40.730610
 - lng:
 - type: number
 - format: double
 - description: Longitude of the location
 - example: -73.935242
 - phoneNumbers:
 - type: array
 - items:
 - type: string
 - description: List of phone numbers to send the location SMS to
 - example: ["+1234567890", "+0987654321"]

MOOD Recommendation Micro Service

openapi: 3.0.0

info:

- title: Mood Tracker API
- description: API for tracking mood entries, weekly reports, and recommendations.
- version: 1.0.0

paths:

- /api/mood/save:
 - post:
 - summary: Save Mood Entry

description: Saves a new mood entry with details like mood score, journal entry, sleep hours, and water intake.

requestBody:

description: Mood entry data to be saved

required: true

content:

application/json:

schema:

\$ref: '#/components/schemas/MoodEntry'

responses:

'201':

description: Mood entry created successfully

content:

application/json:

schema:

\$ref: '#/components/schemas/MoodEntry'

'500':

description: Internal server error

/api/mood/weekly-report:

get:

summary: Get Weekly Mood Report

description: Retrieves the weekly mood report for a specific user or all users.

parameters:

- name: userId

in: query

required: false

schema:

type: integer

description: ID of the user to retrieve the weekly report for

responses:

'200':

description: Weekly mood report retrieved successfully

content:

application/json:

schema:

type: array

items:

\$ref: '#/components/schemas/MoodEntry'

'204':

description: No content found

'500':

description: Internal server error

/api/mood/recommendations:

get:

summary: Get Mood Recommendations

description: Generates recommendations based on mood entries for a specific user or all users.

parameters:

- name: userId

in: query

required: false

schema:

type: integer

description: ID of the user to retrieve recommendations for

responses:

'200':

description: Recommendations retrieved successfully

content:

application/json:

schema:

type: string

'500':

description: Internal server error

/api/mood/entries:

get:

summary: Get All Mood Entries

description: Retrieves all mood entries for a specific user or all users.

parameters:

- name: userId

in: query

required: false

schema:

type: integer

description: ID of the user to retrieve entries for

responses:

'200':

description: List of mood entries retrieved successfully

content:

application/json:

schema:

type: array

items:

\$ref: '#/components/schemas/MoodEntry'

'204':

description: No content found

'500':

description: Internal server error

/api/mood/entries/{id}:

delete:

summary: Delete Mood Entry

description: Deletes a mood entry by its ID.

parameters:

- name: id

in: path

required: true

schema:

type: integer

description: ID of the mood entry to delete

responses:

'204':

description: Mood entry deleted successfully

'500':

description: Internal server error

components:

schemas:

MoodEntry:

type: object

properties:

id:

type: integer

description: Unique ID of the mood entry
example: 1
userId:
type: integer
description: User ID associated with the mood entry
example: 123
moodScore:
type: integer
description: Mood score ranging from 1 to 10
example: 7
journalEntry:
type: string
description: Journal entry for the day
example: "Today was a productive day!"
sleepHours:
type: integer
description: Number of hours slept
example: 8
waterIntake:
type: integer
description: Amount of water intake in liters
example: 2
entryDate:
type: string
format: date
description: Date of the mood entry
example: "2024-09-12"

Recommendation System Micro Service

openapi: 3.0.0
info:
title: YouTube Recommendation System API
description: API for fetching videos from YouTube based on a search query.
version: 1.0.0
paths:
/api/videos:
get:
summary: Get YouTube Videos
description: Fetches a list of YouTube videos based on a search query.
parameters:
- name: query
in: query
required: true
schema:
type: string
description: Search query for YouTube videos
example: "Java tutorials"
responses:
'200':
description: List of YouTube search results
content:

```
  application/json:
    schema:
      type: array
      items:
        $ref: '#/components/schemas/SearchResult'
'500':
  description: Internal server error
components:
  schemas:
    SearchResult:
      type: object
      properties:
        kind:
          type: string
          description: Type of the search result
          example: "youtube#searchResult"
        etag:
          type: string
          description: ETag of the search result
          example: "XI7nbFXuYBlpLOayR_gDh3eu1k/8q"
        id:
          type: object
          description: Information about the video or channel
          properties:
            kind:
              type: string
              description: Type of resource (e.g., video, channel, playlist)
              example: "youtube#video"
            videoId:
              type: string
              description: ID of the video
              example: "Ks-_Mh1QhMc"
        snippet:
          type: object
          description: Metadata of the search result
          properties:
            publishedAt:
              type: string
              format: date-time
              description: Date when the video was published
              example: "2023-01-15T00:00:00Z"
            title:
              type: string
              description: Title of the video
              example: "Learn Java in 30 minutes"
            description:
              type: string
              description: Description of the video
              example: "This video will give you a quick overview of Java programming."
            channelTitle:
              type: string
              description: The channel title the video belongs to
              example: "Java Coding"
```


Task MicroService

openapi: 3.0.0

info:

title: Task Manager API

description: API for managing tasks, including CRUD operations, priority management, notifications, and reminders.

version: 1.0.0

paths:

/api/tasks:

get:

summary: Get all tasks

description: Retrieve a list of all tasks.

responses:

'200':

description: List of tasks

content:

application/json:

schema:

type: array

items:

\$ref: '#/components/schemas/Task'

'500':

description: Internal server error

post:

summary: Create a new task

description: Add a new task to the system.

requestBody:

required: true

content:

application/json:

schema:

\$ref: '#/components/schemas/Task'

responses:

'201':

description: Task created successfully

content:

application/json:

schema:

\$ref: '#/components/schemas/Task'

'400':

description: Bad request

/api/tasks/{id}:

get:

summary: Get task by ID

description: Retrieve a task by its ID.

parameters:

- name: id

in: path

required: true

schema:

type: integer

description: ID of the task

responses:

'200':

description: Task found
content:
 application/json:
 schema:
 \$ref: '#/components/schemas/Task'
'404':
 description: Task not found
delete:
 summary: Delete task by ID
 description: Delete a task by its ID.
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
 description: ID of the task
 responses:
 '204':
 description: Task deleted successfully
 '404':
 description: Task not found

/api/tasks/priority/{priority}:

get:
 summary: Get tasks by priority
 description: Retrieve tasks filtered by their priority.
 parameters:
 - name: priority
 in: path
 required: true
 schema:
 type: string
 description: Priority level of tasks (e.g., "high", "medium", "low")
 responses:
 '200':
 description: List of tasks with specified priority
 content:
 application/json:
 schema:
 type: array
 items:
 \$ref: '#/components/schemas/Task'
 '404':
 description: Tasks not found

/api/tasks/{id}/text:

patch:
 summary: Update task text
 description: Update the text of an existing task.
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
 description: ID of the task

requestBody:
 required: true
 content:
 application/json:
 schema:
 type: object
 properties:
 text:
 type: string
 example: "New task description"
responses:
 '200':
 description: Task updated successfully
 '400':
 description: Invalid input data
 '404':
 description: Task not found

/api/tasks/{id}/priority:
patch:
 summary: Update task priority
 description: Update the priority of an existing task.
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
 description: ID of the task
 requestBody:
 required: true
 content:
 application/json:
 schema:
 type: object
 properties:
 priority:
 type: string
 example: "high"
 responses:
 '200':
 description: Task priority updated successfully
 '400':
 description: Invalid input data
 '404':
 description: Task not found

/api/tasks/{id}/reminder:
patch:
 summary: Update task reminder time
 description: Update the reminder time for a task.
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer

description: ID of the task
requestBody:
required: true
content:
application/json:
schema:
type: object
properties:
reminderTime:
type: string
format: date-time
example: "2024-09-15T10:00:00"
responses:
'200':
description: Task reminder time updated successfully
'400':
description: Invalid reminder time format
'404':
description: Task not found

/api/tasks/user/{userId}:
get:
summary: Get tasks by user ID
description: Retrieve tasks assigned to a specific user.
parameters:
- name: userId
in: path
required: true
schema:
type: integer
description: ID of the user
responses:
'200':
description: List of tasks for the user
content:
application/json:
schema:
type: array
items:
\$ref: '#/components/schemas/Task'
'404':
description: No tasks found for the user

/api/tasks/notifications/{userId}:
get:
summary: Get tasks with notifications for a user
description: Retrieve tasks for a user that have notifications or reminders.
parameters:
- name: userId
in: path
required: true
schema:
type: integer
description: ID of the user
responses:
'200':
description: List of tasks with notifications for the user

content:
 application/json:
 schema:
 type: array
 items:
 \$ref: '#/components/schemas/Task'
'404':
 description: No tasks with notifications found

components:
 schemas:
 Task:
 type: object
 properties:
 id:
 type: integer
 description: Task ID
 example: 1
 text:
 type: string
 description: Task description
 example: "Finish the project report"
 priority:
 type: string
 description: Task priority
 example: "high"
 reminderTime:
 type: string
 format: date-time
 description: Task reminder time
 example: "2024-09-15T10:00:00"
 notified:
 type: boolean
 description: Whether the user was notified
 example: false
 completed:
 type: boolean
 description: Whether the task is completed
 example: false
 userId:
 type: integer
 description: ID of the user who created the task
 example: 101

Test Micro Service

openapi: 3.0.0
info:
 title: Test Score API
 description: API for submitting and retrieving user test scores.
 version: 1.0.0
servers:
 - url: http://localhost:8080

description: Local server

paths:

/test-scores:

post:

summary: Submit a test score

description: Save the test score for a user.

requestBody:

required: true

content:

application/json:

schema:

\$ref: '#/components/schemas/TestScoreDto'

responses:

'200':

description: Test score saved successfully

content:

application/json:

schema:

type: string

example: Test score saved successfully

/testHistory:

get:

summary: Get test history

description: Retrieve the test history for a user based on their userId.

parameters:

- name: userId

in: query

required: true

schema:

type: string

description: The ID of the user to retrieve test history for.

responses:

'200':

description: A list of test scores

content:

application/json:

schema:

type: array

items:

\$ref: '#/components/schemas/TestScore'

'404':

description: No test scores found for the given userId

components:

schemas:

TestScore:

type: object

properties:

id:

type: integer

format: int64

date:

type: string

format: date

userId:

```
  type: string
score:
  type: integer
depressionLevel:
  type: string
example:
  id: 1
  date: "2024-09-01"
  userId: "12345"
  score: 75
  depressionLevel: "Moderate"
```

```
TestScoreDto:
type: object
properties:
  id:
    type: integer
    format: int32
  userId:
    type: string
  date:
    type: string
    format: date
  score:
    type: integer
  depressionLevel:
    type: string
example:
  id: 1
  userId: "12345"
  date: "2024-09-01"
  score: 75
  depressionLevel: "Moderate"
```

```
UserDto:
type: object
properties:
  id:
    type: integer
  firstName:
    type: string
  lastName:
    type: string
  login:
    type: string
  token:
    type: string
example:
  id: 123
  firstName: "John"
  lastName: "Doe"
  login: "johndoe"
  token: "jwt-token"
```