Pomodify App

User

- Should be able to register and login to the app.
- Should be able to create, update, and delete activities.
- Should be able to start customizable Pomodoro sessions with work and break durations.
- Should be able to add, edit, and delete notes after each session.
- Should be able to view reports and summaries of productivity.

The Pomodify App should expose the following APIs:

API endpoint	register-use	register-user	
method	post		
Request Params	Туре	Description	
username	string	Desired username	
username	string	User's email address	
password	string	Password for authentication	
This API registers a ne creates a user profile		validates the email to ensure no duplicates exist, then	
Success			
Redirect Params	Туре	Description	
message	string	Registration success message	
userld	string	Generated user ID	
userld Sample Response	string	Generated user ID	
Sample Response		Generated user ID y", "userId": "u12345" }	
Sample Response { "message": "User re			
Sample Response			
Sample Response { "message": "User red	gistered successfull	y", "userId": "u12345" }	

API endpoint	login-user		
method	post		
Request Params	Туре	Description	
email	string	Registered email address	
password	string	Account password	
Authenticates a user and issues a JWT token to be used for subsequent API requests.			
Success			
Redirect Params	Туре	Description	
token	string	JWT token for authentication	
expiresIn	number	Expiration time in seconds	
Sample Response			
{ "token": " <jwt_token>", "expiresIn": 3600 }</jwt_token>			
Fail			
Redirect Params	Туре	Description	
error_message	string	Invalid login credentials	
Sample Response			
{ "error_message": "Invalid credentials" }			

API endpoint	update-profile	
method	out	
Request Params	Туре	Description
username	string	Updated username
email	string	Updated email address
Updates the profile of the authenticated user.		

Success					
Redirect Params	Туре	Description			
message	string	Profile updated successfully			
Sample Response	Sample Response				
{ "message": "Profile updated successfully" }					
Fail					
Redirect Params Type Description					
error_message string Error when update fails					
Sample Response					
{ "error_message": "In	valid input" }				

API endpoint	delete-account			
method	delete	delete		
Deletes the authenticated user's account permanently.				
Success				
Redirect Params	Туре	Description		
message	string	Account deleted successfully		
Sample Response				
{ "message": "Account deleted successfully" }				
Fail				
Redirect Params	Туре	Description		
error_message	string	Error deleting account		
Sample Response				
{ "error_message": "Account not found" }				

API endpoint	create-activity			
method	post			
Request Params	Туре	Description		
name	string	Name of the activity		
Creates a new activity for	Creates a new activity for the user. Activities organize Pomodoro sessions into categories.			
Success				
Redirect Params	Туре	Description		
id	string	Generated ID of activity		
name	string	Name of the activity		
Sample Response				
{ "id": "a101", "name": "Study Math" }				
Fail				
Redirect Params	Type Description			
error_message	string	Activity already exists		
Sample Response				
{ "error_message": "Activity already exists" }				

API endpoint	update-activity	
method		
Request Params	Туре	Description
id	string	ID of the activity
name	string	Updated name of activity
Updates the name of an existing activity.		
Success		
Redirect Params	Туре	Description

id	string	ID of the activity	
name	string	Updated name of activity	
Sample Response			
{ "id": "a101", "name": "Study Physics" }			
Fail			
Redirect Params	Туре	Description	
error_message string Error when update fails			
Sample Response			
{ "error_message": "Activity not found" }			

API endpoint	delete-activity		
method	delete		
Request Params	Туре	Description	
id	string	ID of the activity	
Deletes an activity owned by the user.			
Success			
Redirect Params	Туре	Description	
message	string	Activity deleted successfully	
Sample Response			
{ "message": "Activity deleted successfully" }			
Fail			
Redirect Params	Туре	Description	
error_message	string	Error when activity not found	
Sample Response			
{ "error_message": "Activity not found" }			

API enapoint	get-activitie	get-activities		
method	get	get		
Retrieves all activitie	s created by the a	authenticated user.		
Success				
Redirect Params	Туре	Description		
id	string	Activity ID		
name	string	Name of activity		
Sample Response				
[{ "id": "a101", "name { "id": "a102" "name	• •			

Fail

error message string Error when no data found	Redirect Params	Туре	Description
	error_message	string	Error when no data found

Sample Response

{ "error_message": "No activities found" }

API endpoint	start-session	
method	post	
Request Params	Туре	Description
activityId	string	ID of the related activity
workDuration	number	Work duration in minutes
breakDuration	number	Break duration in minutes
cycles	number	Number of Pomodoro cycles to run

Starts a Pomodoro session linked to an activity. Sessions are automatically recorded.

Success

Туре	Description
string	Generated ID of session
string	Related activity ID
string	Session status (running)
string	Session start timestamp
	string string string

Sample Response

```
{
    "id": "s555",
    "activityId": "a101",
    "status": "running",
    "startedAt": "2025-09-26T08:00:00Z"
```

Fail

Redirect Params	Туре	Description
error_message	string	Error when activity not found

Sample Response

{ "error_message": "Invalid activity ID" }

API endpoint	get-sessions
method	get

Retrieves all Pomodoro sessions of the authenticated user.

Success

Redirect Params	Туре	Description
id	string	Session ID
activityId	string	Related activity ID
duration	number	Duration in minutes
notes	string	Notes attached to the session

Sample Response

```
[
{
    "id": "s555",
    "activityId": "a101",
    "duration": 25,
    "notes": "Reviewed algebra"
}
]
```

Fail

Redirect Params	Туре	Description
error_message	string	No sessions available

Sample Response

{ "error_message": "No sessions found" }

API endpoint	add-note	
method	post	
Request Params	Туре	Description
sessionId	string	Related session ID
content	string	Content of the note

Adds a note to a Pomodoro session. Notes help summarize accomplishments and reflections.

Success

Redirect Params	Туре	Description
noteld	string	Generated note ID
sessionId	string	Related session ID
content	string	Content of the note

Sample Response

{ "noteId": "n777", "sessionId": "s555", "content": "Finished chapter 1 exercises." }

Fail

Redirect Params	Туре	Description
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error_message	string	Error if session not found
Sample Response		
{ "error_message": "Session not found" }		

API endpoint	update-not	update-note	
method	put	put	
Request Params	Туре	Description	
noteld	string	ID of the note	
content	string	Updated note content	
Updates the content of	f an existing se	ssion note.	
Success			
Redirect Params	Туре	Description	
noteld	string	ID of the updated note	
content	string	Updated note content	
Sample Response			
{ "noteId": "n777", "cor	{ "noteId": "n777", "content": "Reviewed chapter 2 instead." }		
Fail			
Redirect Params	Туре	Description	
error_message	string	Error when note not found	
Sample Response			
{ "error_message": "Note not found" }			

API endpoint	delete-note	
method		
Request Params	Туре	Description
noteld	string	ID of the note

Deletes a session note permanently.			
Success			
Redirect Params	Туре	Description	
message	string	Note deleted successfully	
Sample Response	'		
{ "message": "Note de	{ "message": "Note deleted successfully" }		
Fail	Fail		
Redirect Params	Redirect Params Type Description		
error_message string Error when note not found			
Sample Response			
{ "error_message": "Note not found" }			

API endpoint	reports-summary	
method	get	

Generates a summary of all activities and sessions for the authenticated user. Includes totals and breakdowns per activity.

Success

Redirect Params	Туре	Description
totalSessions	number	Total number of sessions
totalHours	number	Total hours spent
activities	array	Hours spent per activity

Sample Response

```
{
  "totalSessions": 120,
  "totalHours": 50,
  "activities": [
    { "name": "Math", "hours": 20 },
    { "name": "Angular", "hours": 30 }
]
```

}					
Fail					
Redirect Params	Туре	Description			
error_message	string	Error when no data is available			
Sample Response					
{ "error_message": "No data available" }					

reports-acti	reports-activity	
get		
Туре	Description	
string	ID of the activity	
ogress report fo	or a specific activity.	
Туре	Description	
string	Related activity ID	
number	Total sessions for this activity	
number	Hours spent on this activity	
string	Trend (increasing/decreasing)	
	get Type string Type string number number	

Redirect Params	Туре	Description
error_message	string	Error if activity not found

Sample Response

{ "error_message": "Activity not found" }

Endpoints

User Management

- 1. register-user
- 2. login-user
- 3. update-profile
- 4. delete-account

Activities

- 5. create-activity
- 6. update-activity
- 7. delete-activity
- 8. get-activities

Sessions

- 9. start-session
- 10. get-sessions

Notes

- 11. add-note
- 12. update-note
- 13. delete-note

Reports

- 14. reports-summary
- 15. reports-activity