IPEX vLLM Serving Demo with openwebui and chatbox

Backend with vLLM Serving

- 1. Start docker using backend-ipex-docker.sh
 - change -v <model-path>:/llm/models to your model path
 - change -v <script-path>:/llm/workspace to the script file path

bash backend-ipex-docker.sh

2. Start IPEX vLLM Serving using vllm-serving in docker container

Only using tp4pp2 need change the openwebui docker backend code

go into docker container

```
docker exec -it ipex-llm-b6 bash
```

and start vllm serving

bash vllm-deepseek32b-serving.sh

Frontend with openwebui or chatbox(web)

openwebui

1. start docker using frontend-openwebui-docker.sh change OPENAI_API_BASE_URL 's ip to

bash frontend-openwebui-docker.sh

- 2. visit https://host-ip:3000 sign up or sign in
 - o username: bigdl@intel.com
 - o password: intel123

chatbox(web)

1. map vllm serving machine port to localhost(chatbox webui can only access to local network only, not LAN) using following command(need change the <username>@<server-ip>) and type your password to auth it

```
ssh -L 8001:localhost:8001 intel@10.238.154.133
```

you can use following command(need change the "Authorization: Bearer <api-key>" to the in your vllm serving start script) in your machine to check if port mapping is successful

```
curl http://localhost:8001/v1/models -H "Content-Type: application/json" -H "Authorization:
```

expect output like this, which contain the vllm serving model name

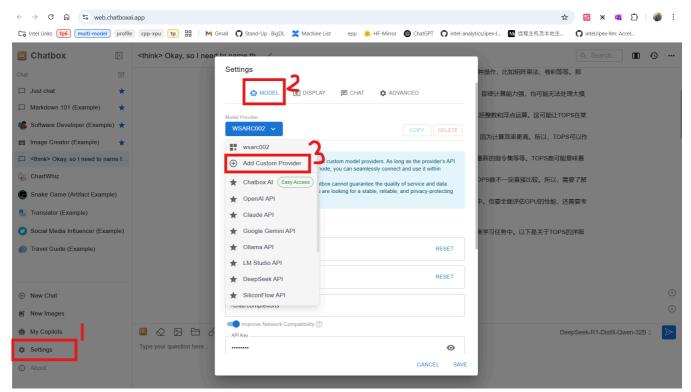
```
w via 🐧 v3.12.4

> CURL http://localnost:8001/V1/models =H "Content-Type: application/json" =H "Authorization: Bearer intel123"

{"object":"list","data":[{"id":"DeepSeek-R1-Distill-Owen=32B","object":"model","created":1739118755,"owned_by":"vllm","root":"/llm/models/DeepSeek-R1-Distill
-Owen=28P","parenew="cull "may model long"100P" (Pagemission"),"created":173911

8755,"allow_create_engine":false,"allow_sampling":true,"allow_logprobs":true,"allow_search_indices":false,"allow_view":true,"allow_fine_tuning":false,"organ
ization":"*","group":null,"is_blocking":false}]}]
```

2. visit https://web.chatboxai.app/ website, and click Settings -> MODEL -> Add Custom Provider button like this:



- 3. configure and save it
 - API Mode: default OpenAI API Compatible
 - Name: any name you like
 - API Host: http://localhost:8001/v1 (need map remote vllm serving to local host like step
 1, and only support http not https)
 - API Path: default /chat/completions
 - Improve Network Compatibility: enable and disable not affect
 - API Key: <api-key> in your vllm-serving script

here is an example:

