

The Ultimate Coders Blackbox.ai Track

MEET OUR TEAM



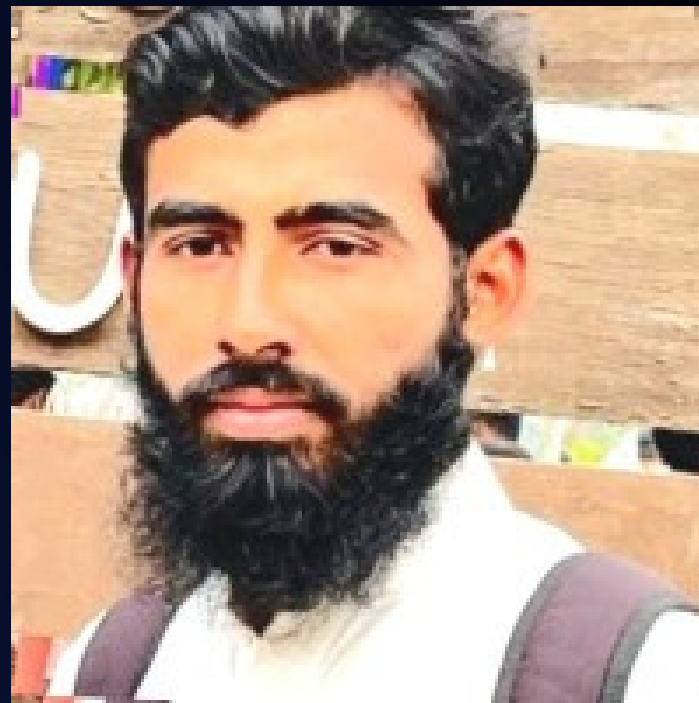
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Code Genie

- **Code Workflows**

Complete code analysis pipeline with explanation, refactoring, review, and testing

- **Semantic Search**

Ask natural language questions about your code and get intelligent answers

- **Code Comment Generator**

Helps you add helpful comments to your code for better readability



Blackbox AI

Code Genie

Code Genie requires users to select the following on every page:

- **Programming Language** – e.g., Python, JavaScript, C#
- **Skill Level** – Beginner, Intermediate, or Expert
- **Role** – Developer, QA, Student, etc.
- **Explanation Language** – Preferred language for AI responses (e.g., English, Urdu)



Programming Language	Skill Level	Your Role	Explanation Language
Python ▼	Beginner ▼	Student ▼	English ▼

1. Code Workflows

- **Explain the Code**
- **Refactor the code**
- **Review Code**
- **Error Detection**
- **Test Generation**



2. Semantic Search

- **Understand natural language queries**
- **Match those queries to relevant code**
- **return relevant code snippets, documentation, or explanations**



3. Code Comment Generator

- **analyzes source code**
- **generates meaningful, human-readable comments**



LLaMA via Groq & Blackbox.ai

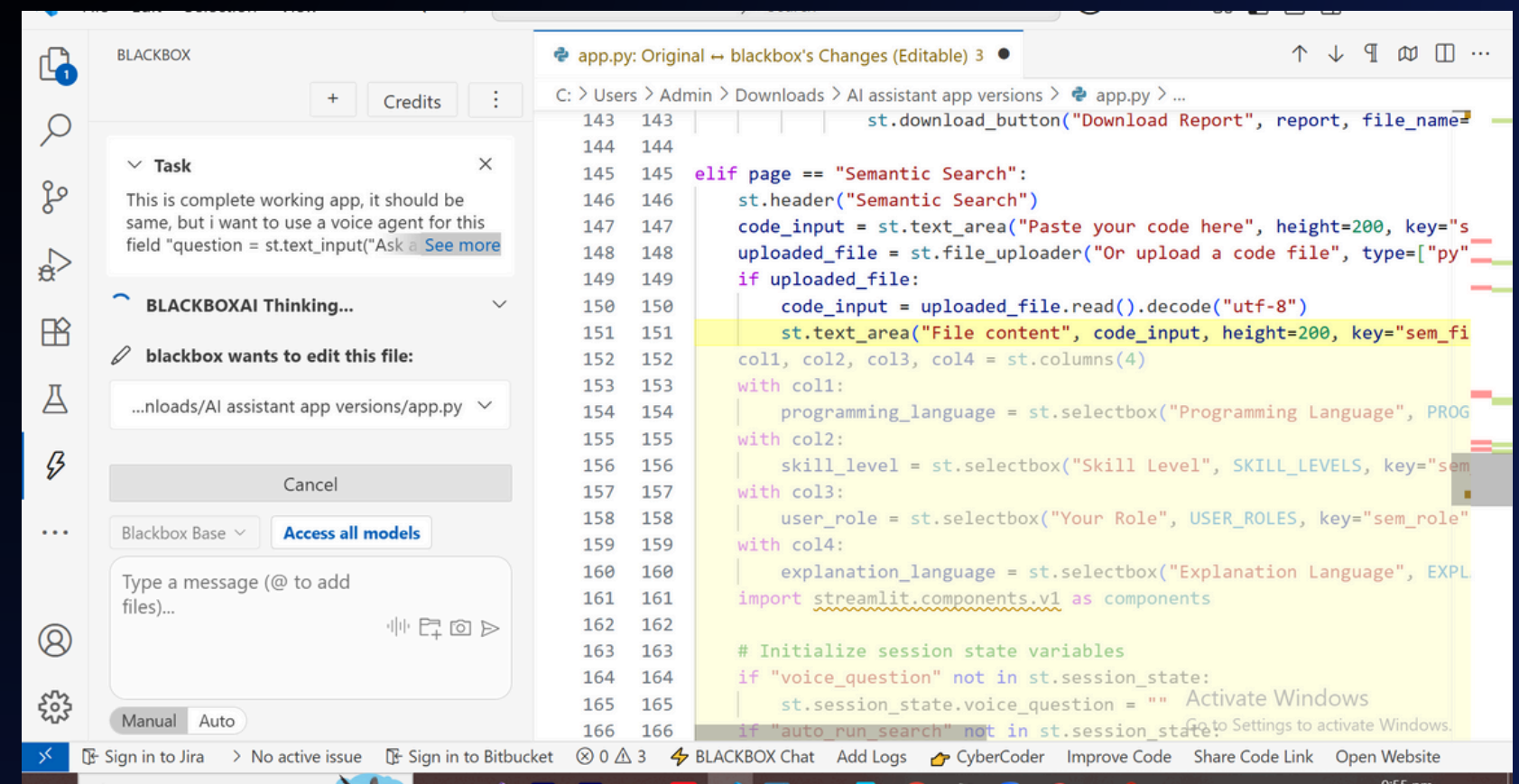
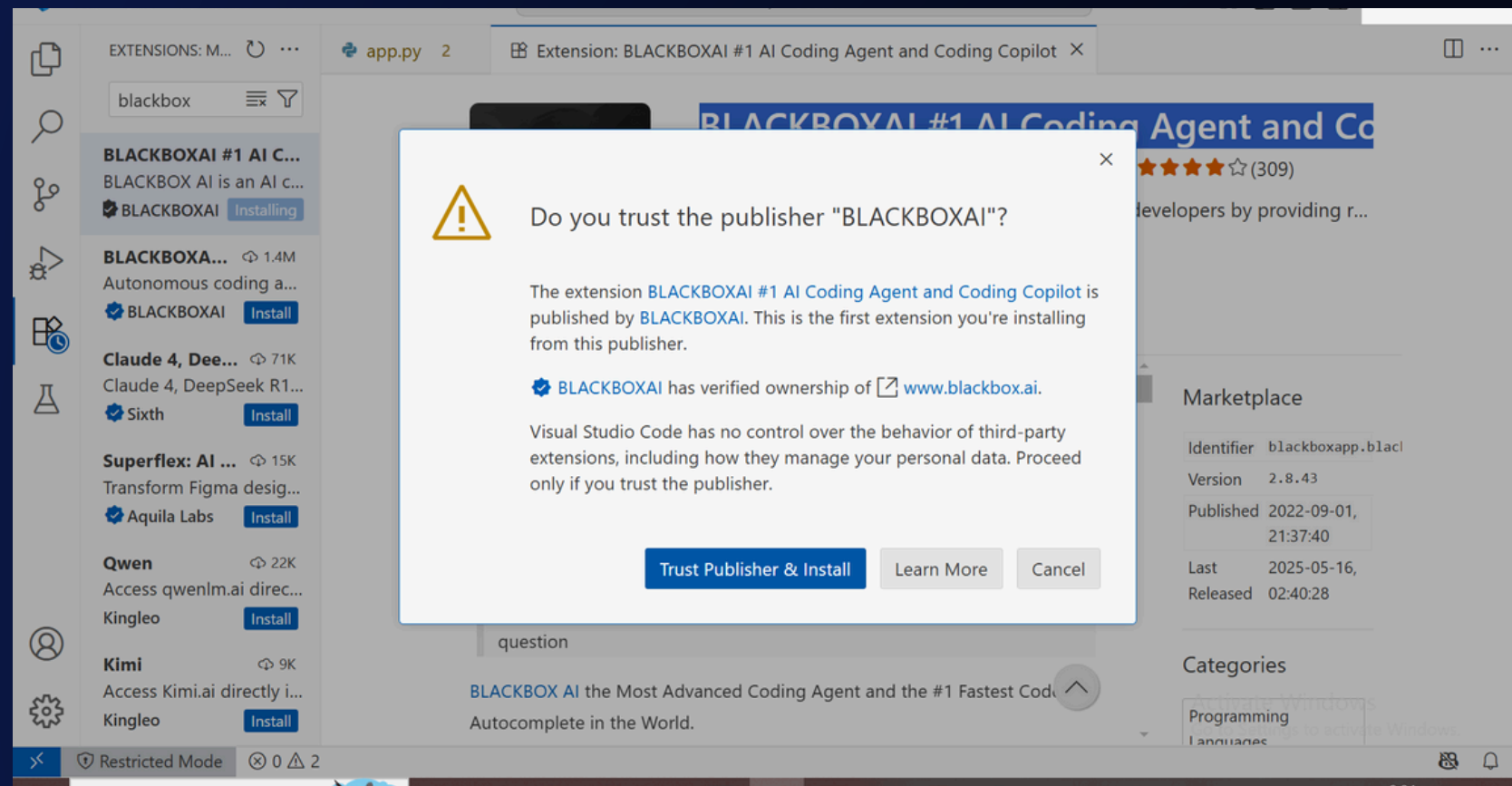
```
# --- API STUBS ---
def call_groq_api(prompt, model="llama3-70b-8192"):
    # Replace with actual Groq API call
    headers = {"Authorization": f"Bearer {GROQ_API_KEY}", "Content-Type": "application/json"}
    data = {"model": model, "messages": [{"role": "user", "content": prompt}]}
    response = requests.post("https://api.groq.com/openai/v1/chat/completions", json=data, headers=headers)
    if response.status_code == 200:
        return response.json()['choices'][0]['message']['content']
    else:
        return f"[Groq API Error] {response.text}"
```



```
def call_blackbox_agent(messages):
    url = "https://api.blackbox.ai/v1/chat/completions"
    headers = {
        "Content-Type": "application/json",
        "Authorization": f"Bearer {BLACKBOX_API_KEY}"
    }
    data = {
        "model": "code-chat",
        "messages": messages
    }
    response = requests.post(url, headers=headers, json=data)
    if response.status_code == 200:
        return response.json()["choices"][0]["message"]["content"]
    else:
        return call_groq_api(messages[-1]["content"])
```



Blackbox ai agents via vs code extension





Thank you!