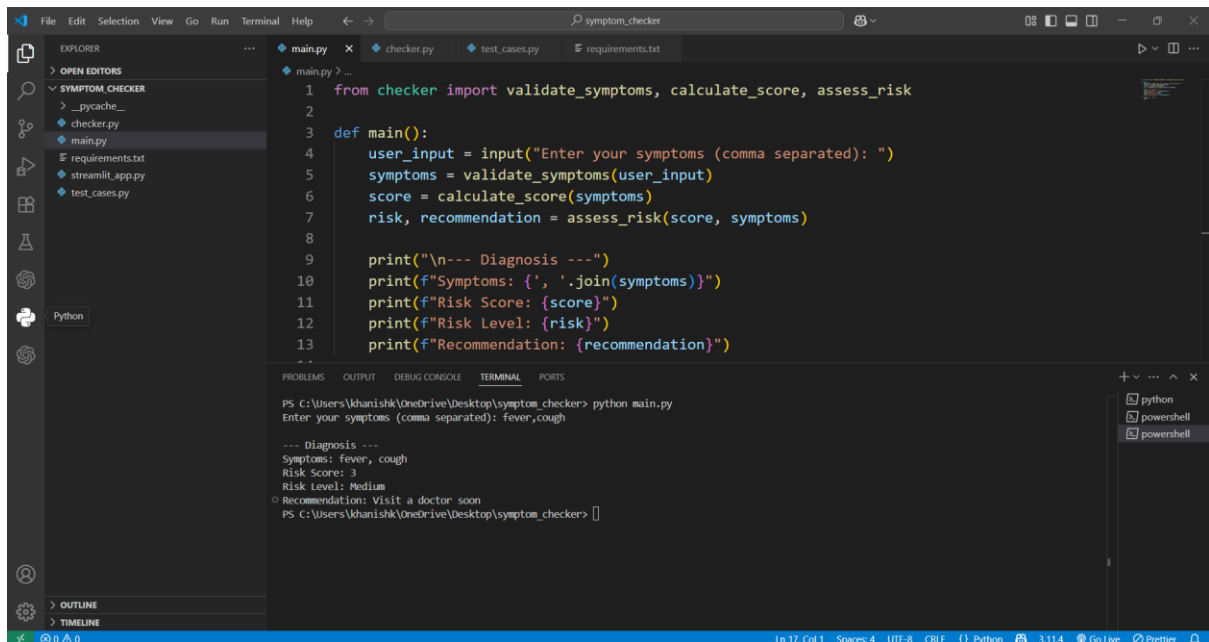


Medical Symptom Checker and Triage System

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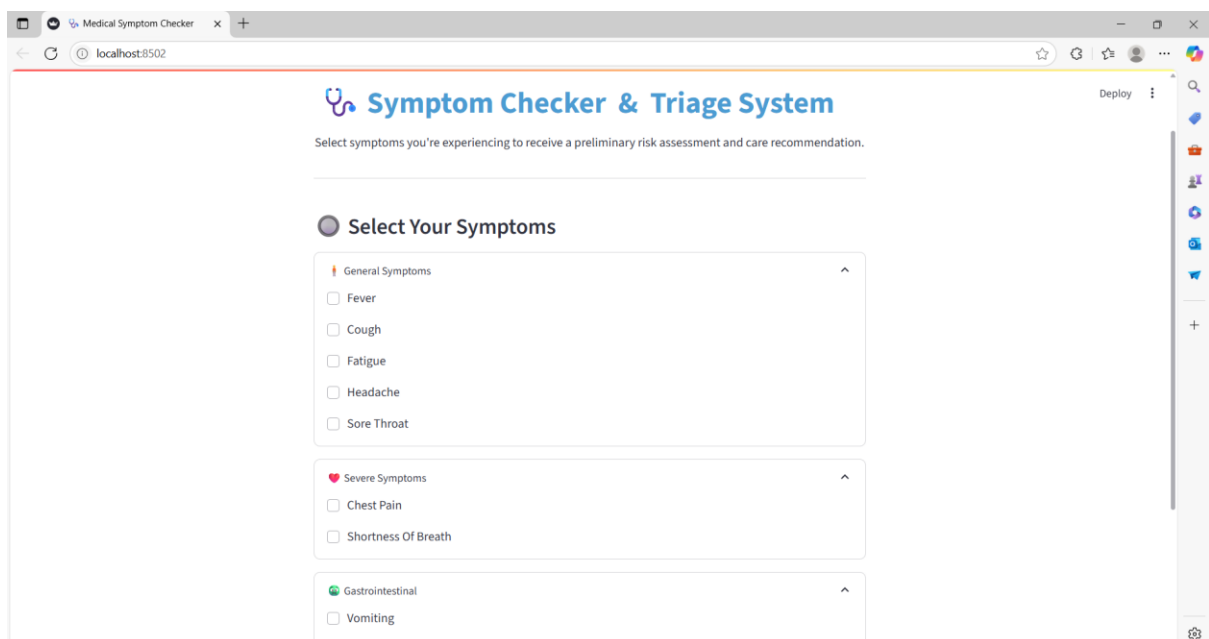
The screenshot shows a Visual Studio Code editor with a Python file named `main.py` open. The code defines a `main()` function that prompts the user for symptoms, validates them, calculates a risk score, and assesses the risk level. The terminal window at the bottom shows the execution of the script, where the user entered 'fever,cough' and the program outputted a diagnosis with a risk score of 3 and a recommendation to visit a doctor soon.

```
1 from checker import validate_symptoms, calculate_score, assess_risk
2
3 def main():
4     user_input = input("Enter your symptoms (comma separated): ")
5     symptoms = validate_symptoms(user_input)
6     score = calculate_score(symptoms)
7     risk, recommendation = assess_risk(score, symptoms)
8
9     print("\n--- Diagnosis ---")
10    print(f"Symptoms: {' '.join(symptoms)}")
11    print(f"Risk Score: {score}")
12    print(f"Risk Level: {risk}")
13    print(f"Recommendation: {recommendation}")
14
```

```
PS C:\Users\khanishk\OneDrive\Desktop\symptom_checker> python main.py
Enter your symptoms (comma separated): fever,cough

--- Diagnosis ---
Symptoms: fever, cough
Risk Score: 3
Risk Level: Medium
Recommendation: Visit a doctor soon
PS C:\Users\khanishk\OneDrive\Desktop\symptom_checker>
```

Fig.1. Terminal-based diagnosis result after entering symptoms manually.



The screenshot shows a web browser displaying the 'Medical Symptom Checker & Triage System' interface. The page has a header with the system name and a subtitle: 'Select symptoms you're experiencing to receive a preliminary risk assessment and care recommendation.' Below this, there is a section titled 'Select Your Symptoms' with three categories of symptoms, each with a set of checkboxes:

- General Symptoms**
 - ☐ Fever
 - ☐ Cough
 - ☐ Fatigue
 - ☐ Headache
 - ☐ Sore Throat
- Severe Symptoms**
 - ☐ Chest Pain
 - ☐ Shortness Of Breath
- Gastrointestinal**
 - ☐ Vomiting

Fig.2. User interface showing categorized symptom checkboxes for selection.

The screenshot displays a web application interface for symptom tracking. It features three expandable sections: 'General Symptoms' (with options: Fever, Cough, Fatigue, Headache, Sore Throat), 'Severe Symptoms' (with options: Chest Pain, Shortness Of Breath), and 'Gastrointestinal' (with options: Vomiting, Diarrhea). Each option is preceded by an unchecked checkbox. Below these sections is an 'Assess Risk' button. On the right side, there is a 'Deploy' button and a vertical toolbar with various icons for navigation and settings.

Fig.3. Extended view of all symptom categories in the UI.

The screenshot shows the 'Assess Risk' button highlighted in red. Below it, a yellow 'Summary' box contains the following information: 'Symptoms: Cough, Sore Throat, Vomiting', 'Risk Score: 4', 'Risk Level: Medium', and 'Recommendation: Visit a doctor soon'. The 'Severe Symptoms' and 'Gastrointestinal' sections are still visible above the summary box. The 'Assess Risk' button remains highlighted.

Fig.4. Diagnosis summary showing risk score, level, and care recommendation.