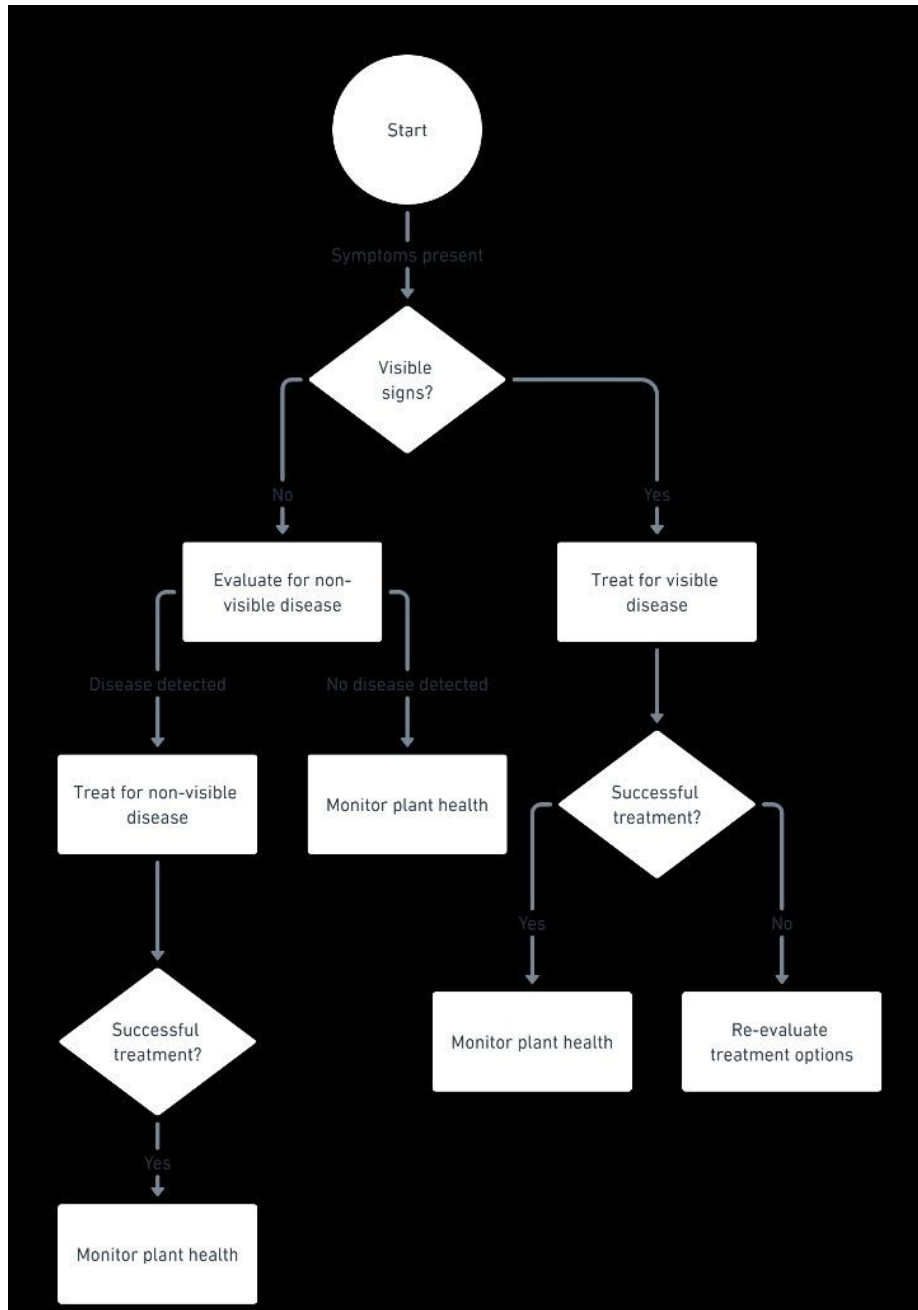


6.2 State Space Search



This state space diagram represents a decision-making process for diagnosing and treating plant diseases. Here's a step-by-step explanation of the diagram:

1.Start: The process begins when symptoms are present in a plant.

2.Visible signs?: A decision is made based on whether there are visible signs of disease.

- If Yes, the plant is treated for the visible disease.
- If No, further evaluation is done for non-visible diseases.

3.After treating for a visible disease, the next step is to determine if the treatment was Successful?.

- If Yes, the plant's health is monitored going forward.
- If No, the treatment options are re-evaluated.

4.When evaluating for non-visible disease:

- If a disease is detected, the plant is treated for the non-visible disease.
- If no disease is detected, the plant's health continues to be monitored.

5.If the non-visible disease was treated, again the success of the treatment is assessed.

- If Yes, the plant's health is monitored.
- If No (not shown in the diagram but implied), the treatment process might need to be re-evaluated or adjusted, as with the visible disease.