



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

# **SEC 10 ARTIFICIAL INTELLIGENCE**

## **PROGRESS 3**

State Space Search

Team: Paradox

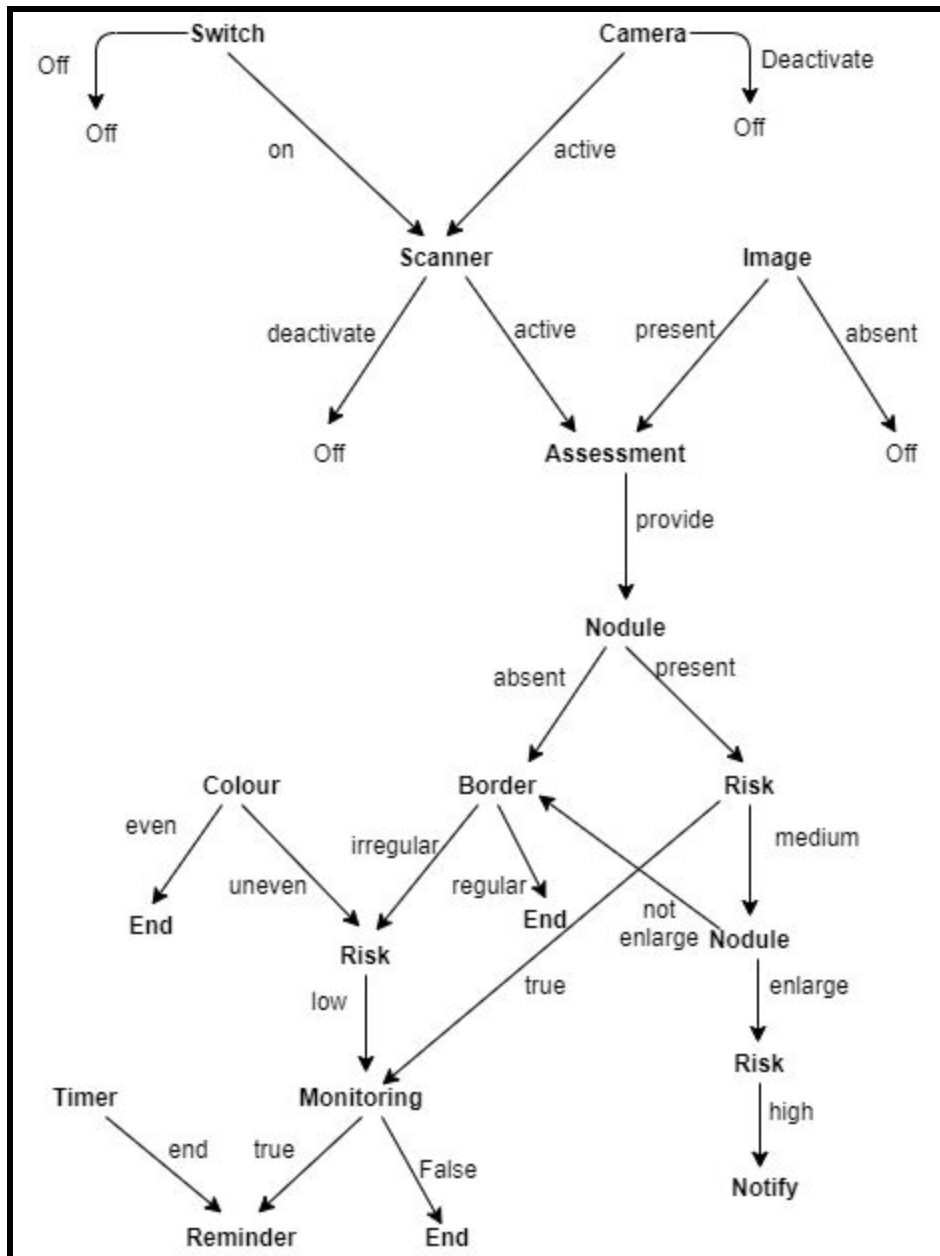
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## State Space Search



Initial State = Switch, Camera  
 Action = Scanner, Image, Assessment, Nodule, Colour, Border, Risk, Monitoring, Timer,  
 Goal = Reminder and notification  
 Path Cost = On, Off, Active, Deactivate, Present, Absent, Provide, Even, Uneven, Irregular, Regular, Medium, Enlarge, Low, True, False, High, End.

When Switch is on and Camera is active, Scanner is activated and the Image present is scanned and an Assessment is provided. If a nodule is present, the risk level is categorized as medium. If nodule is absent, the border and colour are assessed. If the border is irregular and colour is uneven, the risk is categorized as low. If the nodule present is enlarged, the risk is categorized as high. When the risk is high, the user will be notified to consult a doctor. When the risk is detected as low or medium the apps will enable monitoring state and when the timer ends the apps will remind the user to take assessment.