



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

ARTIFICIAL INTELLIGENCE

(SECJ3553-10)

Title:

MOBOT - Mental Health Support and Motivation Bot

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Problem Formulation

State Space Search

Link: <https://whimsical.com/ai-state-JH1UV5Nvq7a72FHPY1gbeY>

Level 1 and Level 2: When user greeting is true, the AI will be activated and respond to the user.
Level 3: When the response from AI is true, users will share their feelings.
Level 4: If sharing feelings is true, AI will listen, otherwise the AI will ask what the user would like to do and the user must tap the options given.
Level 5: If AI listen is true, user can describe their uneasy feeling or ask for motivation. Meanwhile, if ask todo and the user has tapped are true, then the chatbot will respond.
Level 6: The AI will give the option of breathing techniques for User to choose. The AI will provide positive words to User.
Level 7: When User has selected a wanted breathing technique, The AI will give the breathing tips.

Initial state → Greeting(User), Has_Tapped(User)

Actions → Share_Feeling(User), Ask_Todo(Chatbot), Ask_Motivation(User) and Describe_Uneasy_Feel(User)

Goal → Listen(Chatbot), Provide_Positive_Words(Chatbot), Give_Breathing_Tips(Chatbot) and Respond(Chatbot)

Path Cost → true and false

