DETECTIVE Prolog

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Overview

Detective Prolog

murder mystery game based on using logicbased deduction programming.

Idea:

Who the murderer is based on a list of facts and rules.

PROJECT DESCRIPTION

- Prolog uses the provided clues to infer which suspect is the murderer.
- > The Player is assumed to be a detective
 - Tries to solve the puzzle by entering the correct answers.





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- Which is used for negation in Prolog.
- > It allows for non-monotonic reasoning.
- > Prolog can reason with incomplete or uncertain information.



Level.1

Clue 1:

"Body found in the house on Saturday morning; crime occurred 12 hours prior, says doctor."

Facts:

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27 day(friday).
28 day(saturday).
29 day(sunday).
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Rule:



Level.1

Clue 2:

"Victim's wife called the police."

Rule:

61 murdered(M) :- victim(M), man(M).



Level.1

Clue 3:

"Neighbors heard that victim was arguing with a man last night."

Rule:

66 has_argue(X, Y, Z) :- murdered(X), suspect(Y), man(Y), X \= Y, date(Z).



Interact with players

Clue:

"Police found victim's body on Saturday morning and doctor declare the crime happened about 12 hours ago.

Date of crime?

Sunday

Players receive a point for each correct answer.

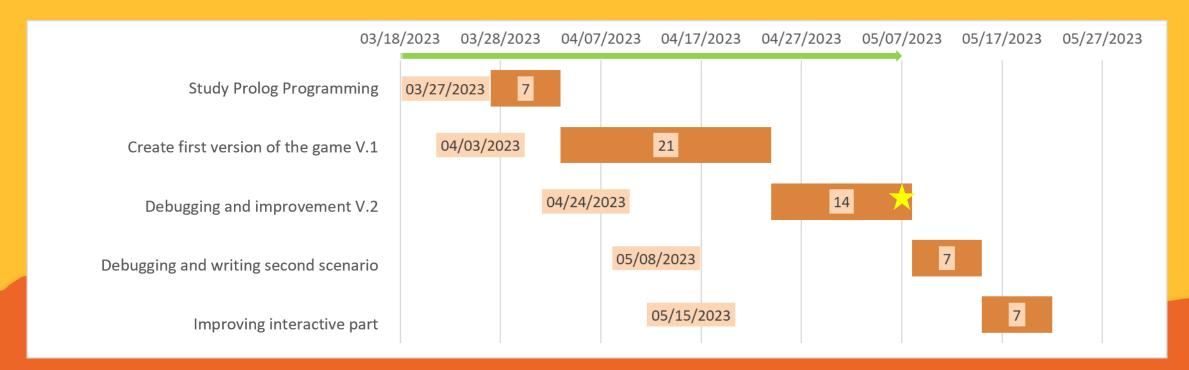
What do we expect?



- ☐ Create a game in which there is only one murderer for each crime.
 - Different scenarios for each level of difficulty.
- ☐ Interact with players and assign scores based on their responses.
 - Make new guesses based on the scores.

Project Timeline





THANKS

Does anyone have any questions?

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