



Course Information Technology
Section: Coding, AI & Game Design



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Design a Chat Bot

What You Will Do

Design a simple question-and-answer bot with rules, choices, and conversation paths.

Materials You Will Need

- Paper
- Pencil
- Colored pencils/markers (optional)
- Index cards (optional)

What is a Chat Bot?

A chatbot is a computer program that responds to messages using rules or artificial intelligence.

Examples:

- Customer service bots
- Virtual assistants
- Help desk bots
- Game characters
- AI chat apps

Step 1: Choose a Chatbot Theme

Pick one type of bot:

- Homework Helper
- Pet Care Bot
- Pizza Order Bot
- Video Game Guide Bot
- Joke Bot
- Fitness Coach Bot
- Fantasy Wizard Bot

Step 2: Name Your Bot

Give your bot to make users more comfortable talking to it.

Examples:

- Homework Hero
- Pizza Pal
- Robo Coach
- WizardBot

Step 3: Create Conversation Rules

Write what the bot says when users type certain things. This will give it a less robotic and more relatable conversation style.

Example:

User Says	Bot Replies
Hello	Hi! How can I help?
Homework	What subject?
Math	Try solving one step at a time.
Bye	Goodbye!

Step 4: Build a Decision Tree

A decision tree is a flow chart of questions and responses. Draw conversation paths. This will determine how the bot responds to requests.

Step 5: Play the Game

Pretend to be the chatbot. Have yourself or family ask questions. You must answer using only your rules.

Step 6: Improve the Bot

Make your bot better by improving its decision tree and adding:

- More responses
- Better greetings
- Funny replies
- Secret commands
- Multiple topics

Challenge

- Make a chatbot that can:
- Recommend movies
- Help choose dinner
- Give quiz questions
- Run a text adventure game

Sample Decision Tree

