

Conversational Agents Prototyping

Human-AI Interaction
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A Prototype Conversational Agent

- Final goal
 - to *design* and *implement* an interactive prototype for a conversational agent
 - it should be vocal and/or textual (only or mainly, it is up to you)
 - the answers will be "fake"
 - it will always answer the same 2-3 things for each different question

Step 0

Choose your specialty!

On Feb 10-11

Step 0

- **Decide** what the conversational agent should be able to "do"
 - the "intelligence" should mainly be in the "conversational" part
 - write it down the topic/idea/problem to be solved
 - e.g., *"our app will support/help/... people to..."*
 - in a slide

Step 1

Design the Conversational Interface

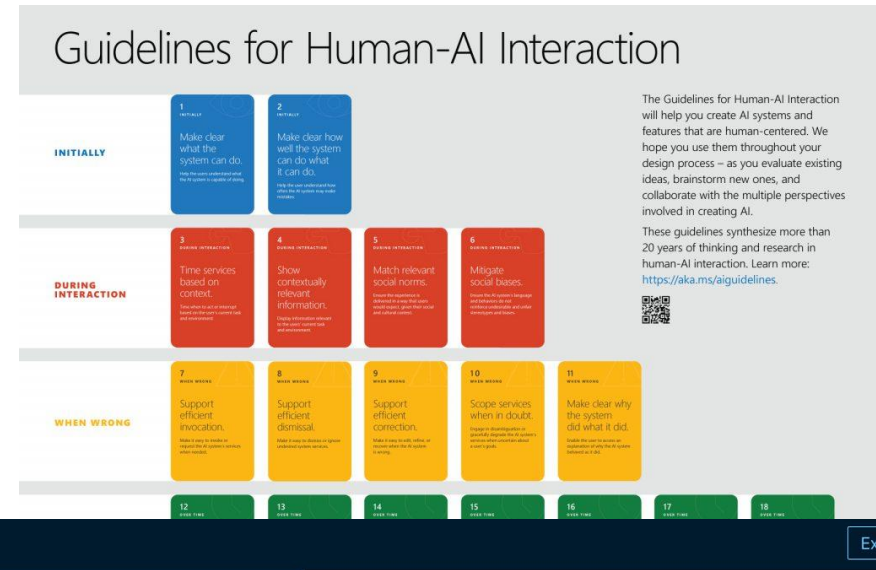
On Feb 11

Step 1

- **Design** the conversational UI
 - in a slide
- Possible questions:
 - Which dialogues?
 - Will all the answers be textual/vocal, only?
 - How to recover from errors?
 - Which is the tone?
 - How many details?
 - ...
 - Which Human-AI Interaction guidelines follows and/or ignore? Why?

Use this!

- <https://www.microsoft.com/en-us/haxtoolkit/library/>
- <https://www.microsoft.com/en-us/haxtoolkit/playbook/>



HAX Playbook

Describe your AI feature

Restart Undo

Test these scenarios

Total scenarios: 0

Export

Which of these systems is closest to what you are designing?

- ☐ Search
A search system locates items that correspond to user-specified keywords, phrases, or characters.
- ☐ Recommendation
A recommendation system makes preferred-content suggestions, sometimes by predicting the user's rating of the content.
- ☐ Conversational AI
Conversational agents interact with people through one or more exchanges of natural-language dialogue, similar to conversing with a person.
- ☐ Text prediction and assistance
Text prediction and writing assistants help with the writing process, including research, grammar, tone, and localization.
- ☐ Classification
Text or document classification categorizes text in groups organized by predefined labels.

Step 2

Implement a Prototype!

On Feb 11-18

Step 2

- Implement an interactive prototype for your conversational agent
 - Choose the **main** functionalities!
 - One to two, only
- By using Dialogflow or the OpenAI APIs
 - you can start from the examples shown in class!

Step 3

Share it!

On Feb 18

Step 3

- Present your prototype and the underlying idea in 10 minute
 - Put together the slides you prepared
 - Add a couple of screenshots/screen-recordings
 - Prepare a short demo
 - Connect your laptop to the projector... and speak!

Step 4

Submit it!

Submission Instructions

- One per team, choose a "submitter"
- Convert the set of slides you prepared in PDF and name it as follows:
Lastname_Firstname_ex3.pdf (example: Calo_Tommaso_ex4.pdf)
- Upload the resulting file to OwnCloud, at the following URL:
<https://baltea.polito.it/owncloud/index.php/s/92clc01407OrGYT>
- By **Feb 19, 2026**