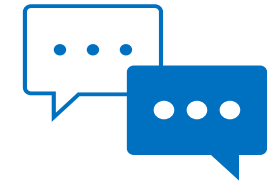


Chatbot Tool: Chatbase.co



chatbase.co

Chatbot Tool: Melibo

The screenshot shows the Melibo chatbot builder interface. On the left, a flowchart displays a sequence of nodes connected by arrows. A red circle highlights a specific node in the flowchart, with a red arrow pointing to the right. On the right, the configuration panel for a 'Chatbot' node is shown. It includes a text input field with the message: "Great, you want to start your challenge in Robotics and Internet of Things. Before you start you have to select one of the two Options below:". Below the text field, there are two buttons labeled 'Option 1' and 'Option 2'. The 'Option 1' button is circled in red. The interface also shows a 'User' section with a 'Choose an answer option' field and a 'Buttons' button.

The screenshot shows the Melibo chatbot interface in a mobile app. The chatbot's name is 'Robotics and Internet of Things (IoT)' and the date is '10.06.2024'. The chatbot sends a message: "Hello 🙋 I am a chatbot and can help you, If you have a specific question or need help. I'm here for you 😊 What would you like to know?". The user responds: "Help me with my Challenge". The chatbot then sends a message: "Great, you want to start your challenge in Robotics and Internet of Things. Before you start you have to select one of the two Options below:". Below this message, there are two buttons labeled 'Option 1' and 'Option 2'. The 'Option 1' button is circled in red. At the bottom right, there is a 'Cancel' button and a 'Powered by melibo' logo.

Chatbot Tool: Melibo

The screenshot shows the Melibo chatbot builder interface. On the left, there is a flowchart with several nodes. One node is circled in red, and a red arrow points from it to the chatbot configuration window on the right. The chatbot window is titled "Challenge Navigator - Option 1: HealthBot | Robotics & IoT / Assistant" and "Node: 2 | Node type: Dialog". It contains a chatbot configuration area with a text input field, a rich text editor, and a preview area. The preview area shows a chatbot message: "Welcome to your challenge for Robotic and internet of things, IoT. As a chatbot I will accompany you through your **Challenge Option 1: HealthBot**". Below the text is an image of a person interacting with a robot. The chatbot configuration area also includes a rich text editor with the following text: "As you have choosen the option 1 for your Challenge you have to focus on the first two phases of developing a robot: **analysis** and **design**, as shown in the diagram below. Remember that you only have to cover these **two phases in this challenge**." and "Your Final Submission for Assessment will be Presentation off your Robot Scenano for your **Healthbot**".

The screenshot shows the chatbot's output in a mobile app. The chatbot is titled "Option 1" and "Robotics and Internet of Things (IoT)". It displays a welcome message: "Welcome to your challenge for Robotic and Internet of things, IoT. As a chatbot I will accompany you through your **Challenge Option 1: HealthBot**". Below the text is an image of a person interacting with a robot. The chatbot also displays a message: "As you have choosen the option 1 for your Challenge you have to focus on the first two phases of developing a robot: **analysis** and **design**, as shown in the diagram below. Remember that you only have to cover these **two phases in this challenge**." and "Your Final Submission for Assessment". The chatbot interface includes a "Back" button and a "Cancel" button. A red arrow points from the image in the chatbot builder to the image in the chatbot output.

Chatbot Tool: Melibo

melibo

Save Discard Delete

Last updated: 19 days ago. Status: ✓

General

Title: about the course Robotics and Internet of Things

At least 2 characters

Topic: Robotics and IoT

Tags: course, about this course, course program, task for assessment

Knowledge piece

about this course

what about the course Robotics and Internet of Things?

what is the overall aims of this course are?

- provide a comprehensive understanding of Robotics and IoT.
- different fields of applications, ethical implications
- its different fields of applications, ethical implications

Who has developed the course "Robotics & Internet of Things"?

The online course "Robotics & Internet of Things" was developed under the Erasmus+ project "Challenge-based Learning in AI-enhanced Digital Transformation Curricula" (ASSISTANT) led by FHM Prof. Jochen Dickel. The project started on October 1, 2022, aiming to modernize and enhance and challenge-orientation between technology, Estonia and Germany. Information about the Erasmus.eu.

Why is this topic important and relevant.

Robotics and Internet of Things (IoT) are changing more and more all areas of life. Automation and real-time data exchange enable smart solutions in healthcare, manufacturing, logistics and many other areas by increasing efficiency, precision and interconnectivity. However, these technologies also pose significant risks, such as privacy invasion, security threats, and potential job loss. To harness the transformative potential of Robotics and IoT, it is therefore crucial to understand their risks and to practice a responsible and ethical approach. The aim of the course is to provide a comprehensive understanding of IoT and Robotics, its different fields of applications, ethical implications, technical foundation and basic skills to design and model IoT and Robotics solutions.

What will you learn in the "Robotics & Internet of Things" course?

The "Robotics & IoT" course offers a comprehensive insight into the current trends in robotics and the Internet of Things (IoT). Upon successful completion, you will be able to:

- Define the main concepts and issues of IoT and robotics
- Identify various application areas of IoT and robotics
- Understand the fundamental principles of IoT and robotics
- Analyze ethical questions related to IoT and robotics.

IBM Watson+ GPT4.0

Robotics and Internet of Things (IoT)

18.06.2024

Hello 🙋 I am a chatbot and can help you, if you have a specific question or need help. I'm here for you 😊 What would you like to know?

Tell me more about this course

Tell me more about this course

The course "Robotics & Internet of Things" provides a comprehensive understanding of IoT and Robotics, including their application areas, ethical implications, technical foundations, and basic skills to design and model IoT and Robotics solutions. The course is structured into six modules covering various aspects of IoT and Robotics. The learning outcomes include the ability to define, identify, understand, analyze, design, and develop IoT/robotics solutions. Additionally, the course will be delivered entirely using online learning

Bitte gebe eine Nachricht ein...

Powered by melibo

Challenge-Based Learning **with Chatbots**

A woman with long black hair and glasses, wearing a white t-shirt and blue jeans, stands in a meeting room pointing at a whiteboard covered in colorful sticky notes. In the foreground, a man with a beard is seated at a table with a laptop, and another person is partially visible on the right. The room is bright and modern, with a white brick wall and a window in the background.

Philipp Schulte

**Agile Work Challenges
in Vocational Training**



Challenge-based Learning with Virtual Assistants

Webinar – Wednesday, 11 September 2024 15:00 - 18:00 CET
Fachhochschule des Mittelstands (FHM) Bielefeld



Coffee
break
15 min.

Challenge-based Learning with Virtual Assistants

Webinar – Wednesday, 11 September 2024 15:00 - 18:00 CET
Fachhochschule des Mittelstands (FHM) Bielefeld



Stefan
Bieletzke

AI-based virtual
Assistant SMARTA



Challenge-based Learning with Virtual Assistants

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Sprint
workshop:
CLB Scenario

On
Miroboard



https://miro.com/app/board/uXjVKgEFpew=/?share_link_id=689988078325

Challenge-based Learning with Virtual Assistants

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Short Workshop: Create a Challenge Based Learning Scenario

CBL Phases	Example	
engage	Big Idea	Nutrition, healthcare, education, mobility, energy, water...
	Essential Question	How can we improve food supply / healthcare?
	Challenge	We want to support farmers / care workers ...
Investigate	Guiding Questions	How can we help care workers / farmers using robotics?
	Guiding Activities	Research i.e. in technology, economics, profession, social
	Guiding Resources	Web, literature, tutorials, courses, experts, field studies
Act	Solution – Action	Storyboard, prototype, product, lean startup, MVP, ...
	Assessment	Studypaper, presentation, practical demonstration
	Publishing	Video, event, discussion, exhibition



https://www.challengebasedlearning.org/wp-content/uploads/2019/03/CBL_Paper_2008.pdf

Short Workshop: Create a Challenge Based Learning Scenario

Task:

- Design a challenge based learning (CBL) scenario with a chatbot
- Use the three CBL Phases as a guide: engage, investigate, act
- Write your idea on Postits on the Ideation Grid opposite

Link in the chat:

https://miro.com/app/board/uXjVKgEFpew=/?share_link_id=689988078325

Challenge-results of the study teams



BA Business Administration (3 Teams)
Challenge 1: HealthBot



BA Industrial Engineer (1 Team)
Challenge 2: FarmingBot

Challenge-results of the study teams

Task:

- Carrying out a challenge: Robotic and Internet of Things application
- Documentation and feedback on the results of the challenge
- Reflection on the team process using teamwork models

Assessment

- group assessment with Individual part
- Presentation on one aspect of the team process (per participant)
- Presentation of the challenge results (as a team)

Organisation:

- Workform: Teamwork in face2face / online lessons
- Supporting Materials: Online Course Robotics & Internet of Things (IoT), Literatur Teammanagement
- Tools: Makeblock No Code Software, Mbot buildingset, Miroboard
- Submission: Presentation as PDF on the presentation date

Notes:

- The assessment is done as a group assessment. Individual grading is possible upon request by e-mail to the lecturer, the individual part must be clearly delineated.
- The presentation for the papers must be sent to the lecturer by e-mail by the presentation date.

Challenge-results of the study teams



Fachhochschule
des Mittelstands

Team Project:
Cobot for
Careworkers

Teammanagement
BA BW26 27

BA-BW-26-VZ
Pia Mahnecke
Timur Avdeev

A white and black cobot robot with a friendly face on its screen is positioned in a care home. In the background, a person is sitting in a chair and another person is standing nearby.

Fachhochschule
des Mittelstands

Medication
dispenser

Teammanagement
BA BW26 27

Jan Finkemeier
Tim Wortmann

A modern, sleek medication dispenser machine with a large screen and a tray for dispensing pills, located in a pharmacy or hospital setting.

Fachhochschule
des Mittelstands

Team project
programming a
robot

Modul: Team management:

Project team:
Christian Lehrkamp
Jürgen Schneider
Hendrik Schulz
Robin Tangler

A blue and white robot with a 'Challenge based learning' label on its top. The robot has a complex structure with various sensors and components.

Fachhochschule
des Mittelstands

Lieferdrohnen:
Eine
zukunftsweisende
Lösung

Team Management &
Moderation BW 26 VZ

Erik Siekmann
Maurice Menner

A white drone with four rotors and a camera, flying in a clear blue sky with some clouds.

Focus on Concept

Challenge-results of the study teams



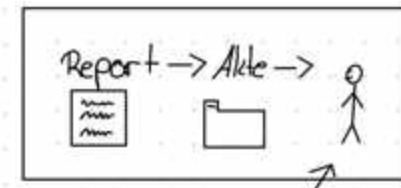
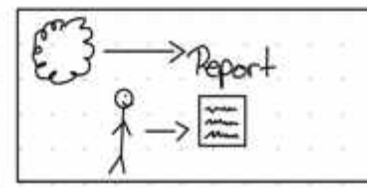
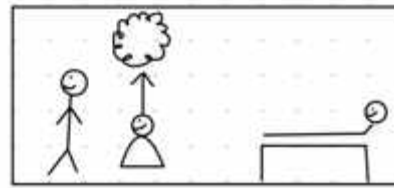
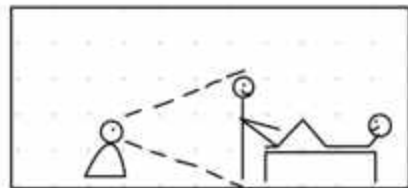
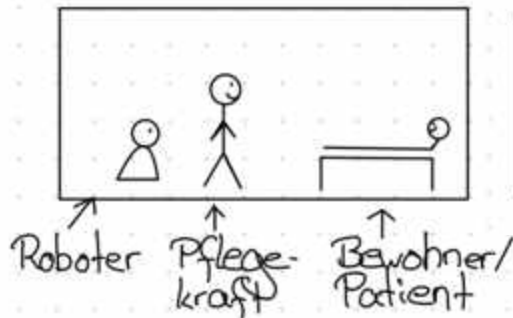
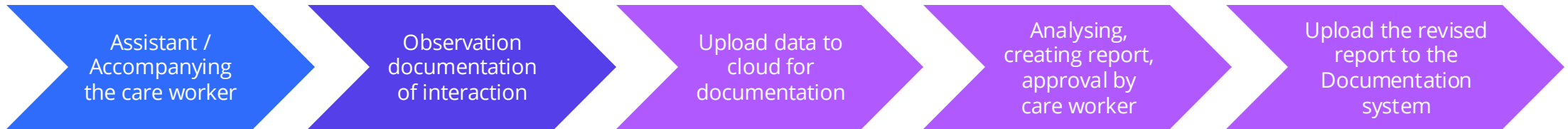
Team Project:
Cobot for Careworkers

Teammanagement
BA BW 26 27

BA-BW-26-VZ
Pia Mahnecke
Timur Avdeev



How can we support care staff in their daily documentation by using robotics to make their work more efficient and improve the quality of care?



Krankenkassen, Angehörige

Focus on Technology

Challenge-results of the study teams



- How can we use robotics to make agricultural work more efficient and environmentally friendly?
- What capabilities should an agricultural robot have?
- Which capabilities can easily be realised in a prototype?



Work preparation



Mounting motors



Sensors installed



Processor and power supply

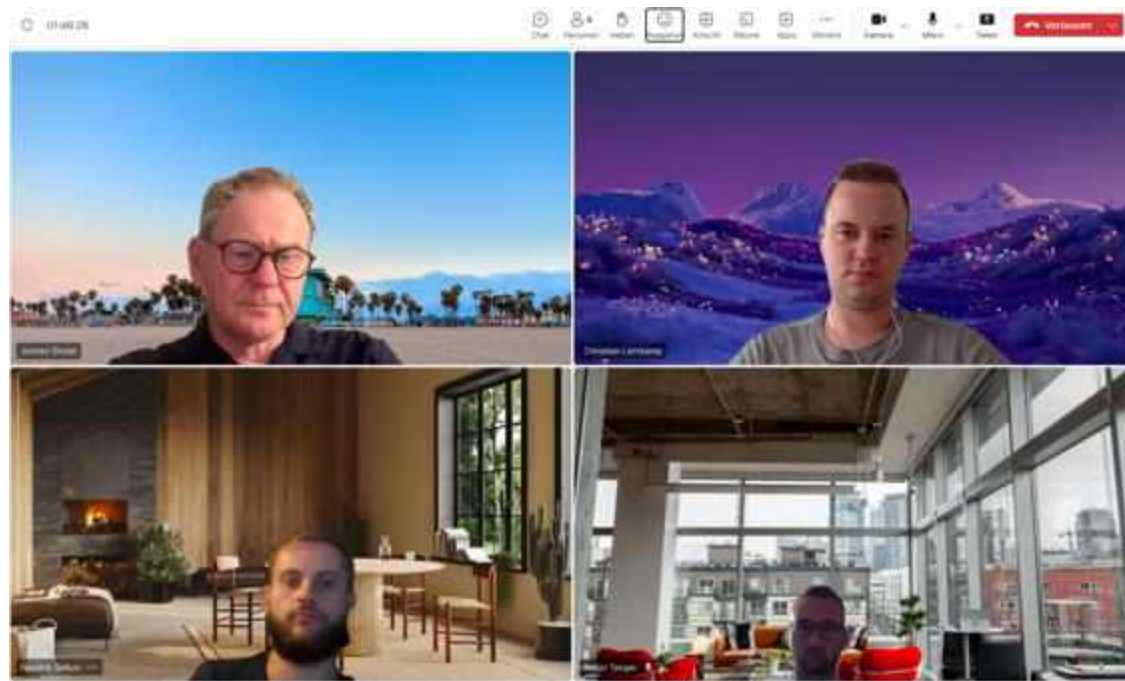


No Code Programming



Test

Challenge-results of the study teams



Teamprozess Reflektion

Reflektion unseres Teamprozesses

- 1. Forming:** Das Team konnte sich bereits, dennoch musste sich das Team anfangs orientieren und das gemeinsame Ziel einordnen.
- 2. Storming:** Die Stärken jedes Einzelnen wurden analysiert. Mit Fokus auf das Ziel waren sich die Mitglieder schnell einig und haben ihre Teamrollen eingenommen.
- 3. Norming:** Die Regeln waren schnell klar. Termine und Aufgaben wurden so definiert und protokolliert, dass jedes Mitglied wusste was es wann zu erledigen hat.
- 4. Performing:** Die Leistungsphase wurde schnell erreicht. Die Teilaufgaben konnten dem Zeitplan entsprechend umgesetzt werden. Es wurde zielorientiert gearbeitet.
- 5. Adjourning:** Das Projekt wurde erfolgreich abgeschlossen. Ein Fazit wurde gezogen. Die Zusammenarbeit war sehr positiv.

Christian Lehrkamp | Teammanagement, Präsentation & Moderation | Teamprozess

Challenge based Learning with Virtual Assitants.

- 15:00 Welcome and ASSISTANT presentation (Prof. Jochen Dickel)
- 15:20 Virtual Assistants in Challenge-Based Learning (Prof. Jochen Dickel)
- 15:40 Agile Work Challenges in Vocational Training for Experience-Based Skill Development
(StD. Philipp Schulte, Carl-Severing Vocational College, Bielefeld)
- 16:00 Coffee Break
- 16:15 Prof. Dr. Stefan Bieletzke, CEO of Trainings Online Gesellschaft mbH who will present his AI-based virtual assistant SMARTA, designed specifically for educational purposes.
- 16:45 Sprint workshop: Conceptualizing a chatbot for a challenge-based scenario (Prof. Jochen Dickel)
- 17:15 Presentation of student challenges
- 17:30 Discussion. Valorization of ASSISTANT results
(Mag. Olga Zubikova, Research Coordinator for Digital Education, FHM)
- 18:00 Closing remarks. End of the event



Thank you
for joining!



Good Bey!

Challenge-based Learning with Virtual Assistants

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Sources

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