



A simulation-based environment for interaction training

VENTURE is a virtual training environment that helps enhance a learner's interpersonal skills to include diversity training, performance feedback, leadership and cultural awareness – any type of role play that can be acted out in a safe environment in the learner's own time. VENTURE is particularly suited to compliance based training where the learner interacts in real time with chat bots using open/semi-structured conversation. VENTURE has three key elements: (1) a Conversation Simulator used by the learner to engage in chat with a "virtual colleague"; (2) a Scenario Designer that enables instructors to create interaction training exercises; and (3) an Automated Assessment Mechanism that evaluates the learner's performance.



Figure 1: Example of VENTURE's Conversation Simulator

Figure 2: Scenario Designer workflow

A. The Conversation Simulator replicates real-world interactions between two people. Figure 1 shows an example of how a student (Sue), a software developer from the UK, interacts with a *Virtual Colleague* (Raúl), a Spanish software developer. A *Virtual Guide* (Maria) helps Sue through the interactions giving immediate feedback to highlight good and bad practice at appropriate places in the conversation. Here, Sue complains about a problem immediately; Maria explains this direct approach might offend Raúl as typically Spaniards prefer a more indirect communication style, and suggests an alternative approach.

B. The Scenario Designer (see Figure 2) allows the instructor to define interaction exercises by dragging and dropping phrases into a scenario workflow. The Scenario Designer also has a database of rules and standard interaction problems that can be reused in new simulations. VENTURE's Scenario Designer makes it possible for the training platform to be used in many training areas, such as cultural training, assertiveness training, and diversity training.









The С. Automated Assessment Mechanism (see Figure 3) automatically assesses the student's skills. At the end of the training session VENTURE generates a report showing where the student made mistakes. The report includes a final score, and a breakdown for each skill practiced in the exercise. This report of strengths and weaknesses is produced immediately after the student completes the training. Once set up, the assessment does not require any intervention from the instructor. More information: http://venture.lero.ie

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ïme consumed: 05:50 of 20:00 min (l napropriate language deduced 0 poi		
	YOUR SCORE: 89 / 100	
Cultural Differences		
Generic problems		
100%		
Use of direct/indirect style		
29%		
Formal/informal communication		
100%		
Succinct/elaborate style		
100%		
Linguistic Differences		
Incorrect use of words or sentenc	es	
100%		
False Friend		
100%		

Figure 3: Assessment Report

Meet the VENTURE team



Current status: The VENTURE prototype has been validated in a field study involving real users. An independently conducted feasibility study has demonstrated the commercial potential for VENTURE. We have received further funding from Enterprise Ireland through the EU Regional Development Fund to commercialise VENTURE and are now **looking for industry/business partners**, to:

- Trial and use VENTURE
- Invest/partner with us in future development of VENTURE
- Licence VENTURE technology for use in their products



