Serious Games Development

About the project
The TUM Medical Education Center (TUM MEC) forms a unit with the Chair of Medical Didactics, Medical Teaching Development and Educational Research, with the aim of combining administrative and academic fields of action and thus promoting excellence in medical teaching.

Big Data, Machine Learning or AI - digitalization has long since reached the medical world. But what happens when more and more decisions are made by machines? How will this influence the work of future doctors?
The Digital Literacy project aims to develop a digital course offering for medical students to make them fit for the future challenges of digitization in the medical profession.

Requirements/ Tasks
Further development of various small serious games scenarios. Thereby, everyday situations in the medical profession should be presented as serious games. The learners are confronted with decisions that illustrate the complexity of human and machine. To accompany the didactical content mentioned above, part of our project consists of creating a series of small serious-game-scenarios that portray everyday situations in the medical profession. The content of the scenarios as well as assets required to create the game will be provided to you. Your task is to join our team to help us continue the development of these games. The format of the existing games is mostly point-and-click and dialogue-based decision-making with occasional minigames and special interactions.

- experience with game development or the willingness to acquire it
- knowledge in the following areas are required:
  - Good knowledge of Git and associated cooperative workflows
  - Unity Games Engine (Prefabs, Game-Loop, Canvas, NavMesh, Coroutines, basic Shader Knowledge)
- basic knowledge in modelling and animation
- Additional artistic skills (3D modeling and animation, 2D Design, Sound Design, ...) are a very welcome
- willingness to work interdisciplinary

We offer
- create your own serious game scenarios
- gain insights into the didactics of teaching digital skills in the field of medicine
- a nice and interdisciplinary team

Application
Please send your application to christina.figalist@tum.de

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