Interview Guide

Agenda

Step 0: Objective of the interview and consent to record

Step 1: Reading the mission description in natural language (Lab Samples)

Step 2: Overview of the mission specification within the VSCode workspace

Step 3: Explanation of the Mission Goal Model

Step 4: Using the Tree View to view and edit a mission

Step 5: The inputs for decomposition process of the MutRoSe framework

Step 6: HTN generated by the decomposition of the MRS mission

Step 7: Questions and suggestions

Step 0:

Objective of the interview

and consent to record

Step 1:

Reading the mission description in natural language (Lab Samples)

Mission Description (Lab Samples Logistics)

Lab samples should be transported from patient floors to the laboratory. A nurse responsible for collecting a sample can **request a delivery** to the laboratory. Each sample before collection is identified with a barcode. The nurse inserts data about the sample in a track system. Samples are transported in secure locked drawers. In the laboratory, the **sample can be picked by a robotic arm or laboratory personnel**. Only authorized personnel or specific robots in specific locations should be able to **open the locked drawers**. The **robotic arm picks up samples,** scans the barcode in each sample, sorts, and **loads the samples** into the entry-module of the analysis machines. **Information about where and when a given sample was picked should be logged securely.** The time between sample collection and laboratory delivery should be tracked to be sure that it goes according to laboratory protocols.

Overview of the MutRoSe workflow
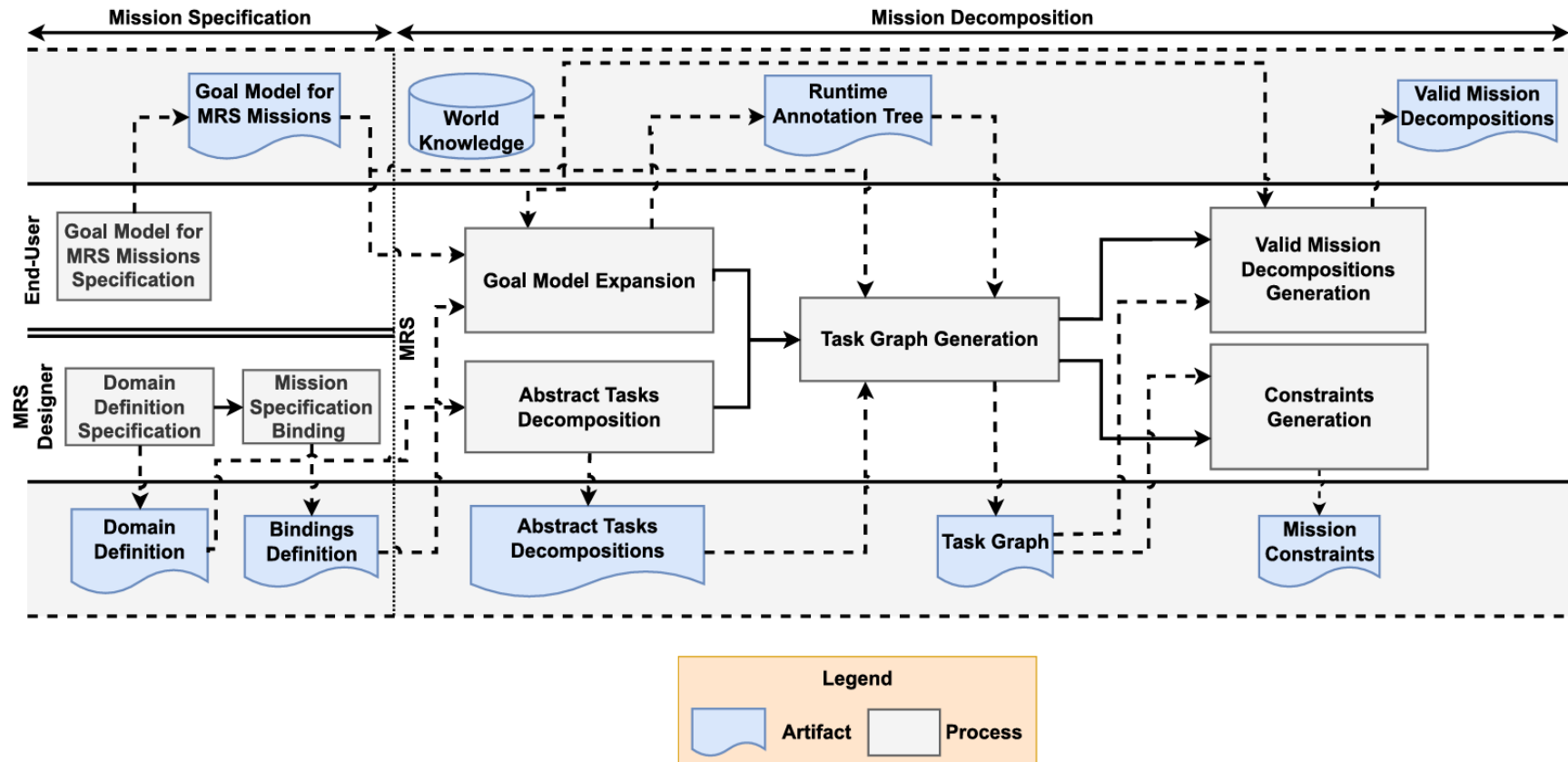
Step 2:

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The inputs for decomposition process of the MutRoSe framework

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Questions and suggestions

Questions

1. What is your opinion on the top-down approach (mission modeling using a goal-oriented approach with MutRoSe) for mission specification?

2. What do you see as the pros and cons of using MutRoSe?

3. Based on your experience with MutRoSe as a tool for robotic mission specification, do you think this approach effectively addresses the challenges related to mission specification?

4. What suggestions would you like to make?