

# INFORMATICS INSTITUTE OF TECHNOLOGY

In Collaboration with

UNIVERSITY OF WESTMINSTER (UOW)

BEng. (Hons) in Software Engineering

**6SENG003C**

**Reasoning about Programs**

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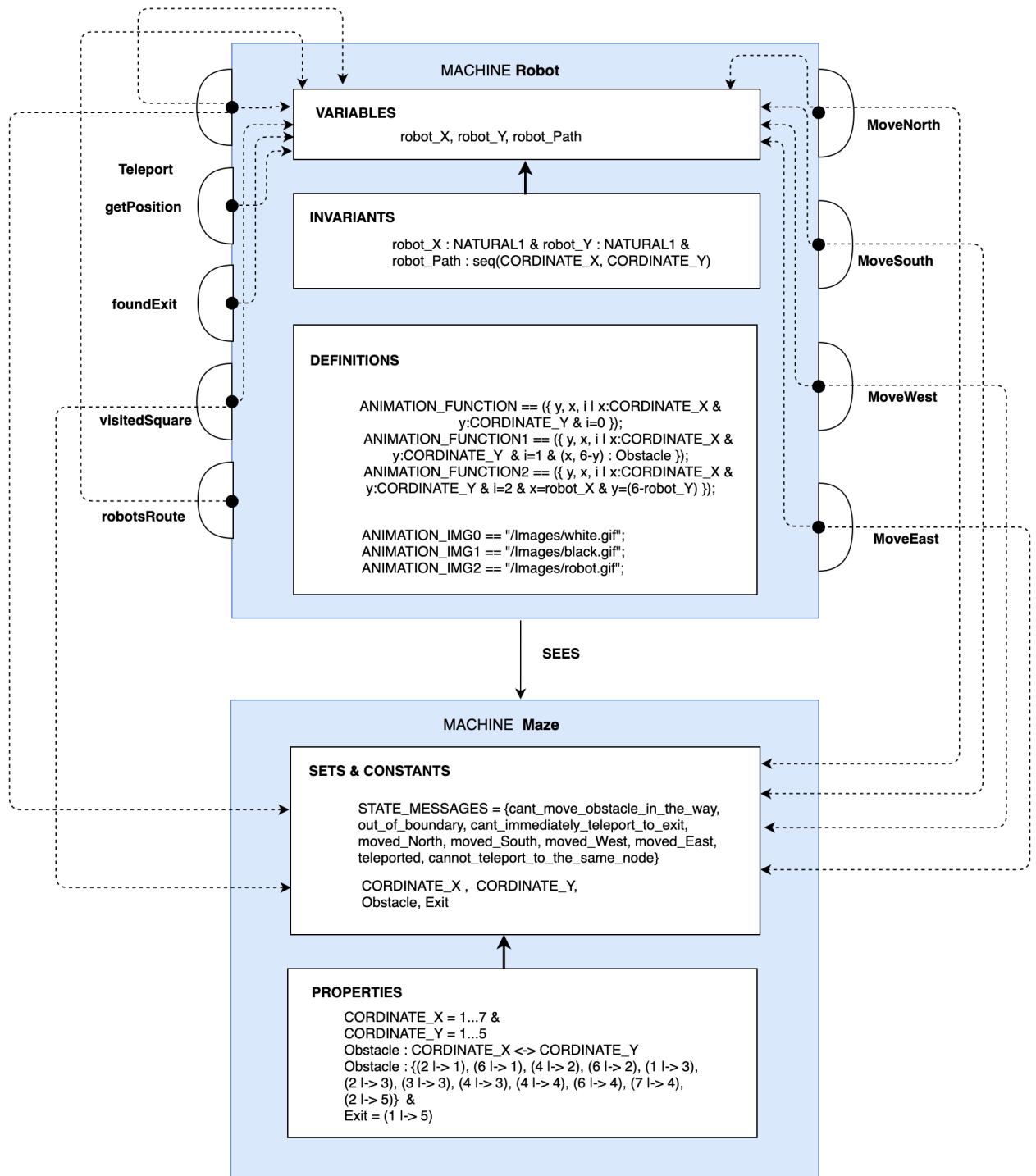
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## 1. Structure Diagram



## 2. Explanation of Invariants

Invariant	Explanation
robot_X : NATURAL1	x position of the robot in the maze
robot_Y : NATURAL1	y position of the robot in the maze
robot_Path : seq(COORDINATE_X, COORDINATE_Y)	path that the robot took