

Project Information			
1. Student Name			Student ID
2. Student Name			Student ID
3. Student Name			Student ID
4. Student Name			Student ID
Group ID			
Project Title			
Domain	Smart building		
	Autonomous vehicle		
Type	Specify the type of the non-residential building (e.g., warehouse, offices) or the type of the autonomous ground vehicle (e.g., delivery van, taxi).		
Project Description	Monitoring	Specify what monitoring aspects your system includes.	
	Automation	Specify what automation aspects your system includes.	
Objective			
Give a link to code repository (e.g., GitHub, Bitbucket, etc.). See slide 56 in slides set "01 Overview and logistics".			
Code Repository Link			

System Design			
System components	Components	Functionality	
	IoT		
	Context		
	Problem generation		
	Planning		
	Execution		
	Broker		
	Knowledge base		
	Other. Specify what other logical components your system has.		

System Architecture Diagram
<p>Include a clear diagram of your system architecture. Ensure the diagram is a logical design and is not dependent on deployment and/or implementation.</p>

System Distribution			
Number of Machines and Components Distribution	2+ machines		
	<i>Specify the type of each machine (e.g., PC, cloud, or Raspberry Pi).</i>		
	<table border="1"> <thead> <tr> <th>Type</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> </tbody> </table>	Type	
	Type		
<i>Specify what logical components are deployed on each machine.</i>			
<table border="1"> <thead> <tr> <th>Components</th> </tr> </thead> <tbody> <tr> <td> </td> </tr> </tbody> </table>	Components		
Components			

IoT						
Sensors	Sensor (e.g., temperature)	Physical	Software-based	Human-based	Simulated	Virtual
	<i>Other. Specify the remaining sensors and their types (if more than 4 sensors)</i>					
Actuators	Actuator	Physical	Software-based	Human-based	Simulated	Virtual
	<i>Other. Specify the remaining actuators and their types (if more than 4 actuators)</i>					

System Integration	
<b>Mechanism</b>	Publish-subscribe Message queue One-to-one
<b>Messaging Middleware</b>	<div> <div> JMS  ZeroMQ  Apache Kafka  RabbitMQ  Redis  IBM WebSphereMQ  Apache Qpid  Other: <div></div> </div> <div> Protocol </div> <div> MQTT  DSS  XMPP  AMQP  Other: <div></div> </div> </div>
<b>Mechanism</b>	<p><i>Explain briefly which components of your system use indirect communication.</i></p> <div></div>

Visualisation	
<b>What is displayed</b>	Latest plan generated Current state. <i>Briefly specify what exactly:</i> <div></div> User control. <i>Briefly explain:</i> <div></div> Other. <i>Briefly explain:</i> <div></div>

AI Planning	
AI Planning Technique	<div>Classical planning</div> <div>HTN planning</div> <div>Other:</div> <div></div>
AI Planner	<div>Specify the name and link to the AI planner used in your project:</div> <div></div> <div>Explain briefly why the chosen AI planner is appropriate for your project:</div> <div></div> <div>Explain briefly the main components of your domain model:</div> <div></div>
Domain Model	
Problem Instance	<div>Explain briefly what constitutes an initial state in your problem instances:</div> <div><div>Initial State</div><div></div></div> <div>Explain briefly what constitutes a goal in your problem instances:</div> <div><div>Goal</div><div></div></div> <div><div>Problem instances are generated</div><div>Once, before system starts. Whenever a state change happens. Other. Explain briefly:</div><div></div></div>