## Milestone

A part of the system has to be finished by class 8. This will be graded by a Code Review.

Description	Percent
Every component can be started independently	mandatory
System can be build and run with no errors	If this is not in the
Spring Boot used for REST API	project, the
JavaFX used for GUI	milestone will be
GitHub repository link in submission	graded with 0
	points
The REST API will be implemented using Spring Boot and designed to provide example data for testing	50%
, , , , , , , , , , , , , , , , , , , ,	
business logic.	
The GUI will be developed using JavaFX, providing an intuitive and interactive interface for users to	50%
simplicity and clarity, ensuring a seamless user experience while demonstrating the integration of JavaFX	
	<ul> <li>Every component can be started independently</li> <li>System can be build and run with no errors</li> <li>Spring Boot used for REST API</li> <li>JavaFX used for GUI</li> <li>GitHub repository link in submission</li> </ul> The REST API will be implemented using Spring Boot and designed to provide example data for testing and demonstration purposes. It will include two endpoints: one to retrieve the data of the current hour, and another to filter historic data. The API will focus solely on returning structured example data to simulate real-world usage scenarios without relying on a persistent data store or handling complex business logic.

## **Final Submission**



The final submission must be presented in class and the project will be graded by Code Review.

Component	Description	Percent
Must Haves	Every component can be started independently	mandatory
	System can be build and run with no errors	If this is not in the project, the final
	Spring Boot used for REST API	project will be graded with 0 points
	JavaFX used for GUI	
	<ul> <li>RabbitMQ used for communication between services</li> </ul>	
	GitHub repository link in submission	
REST API	The Spring Boot App reads the data from the database instead of using static sample data.	10%
Energy Producer	Sends production message in random 1-5 second intervals to the message queue. Production message must include a random but sensible kWh value.	10%
Energy User	Sends usage message in random 1-5 second intervals to the message queue. Usage message must include a random but sensible kWh value.	10%
Usage Service	Receives the production/usage messages and updates the usage table correctly.  Afterwards sends an update message to the queue.	40%
Current Percentage Service	Receives the update message and updates the current percentage table correctly.	30%

Points can be omitted for badly written code, unsufficient presentation or the failure to explain the system.

Last modified: Monday, 20 January 2025, 1:18 PM