

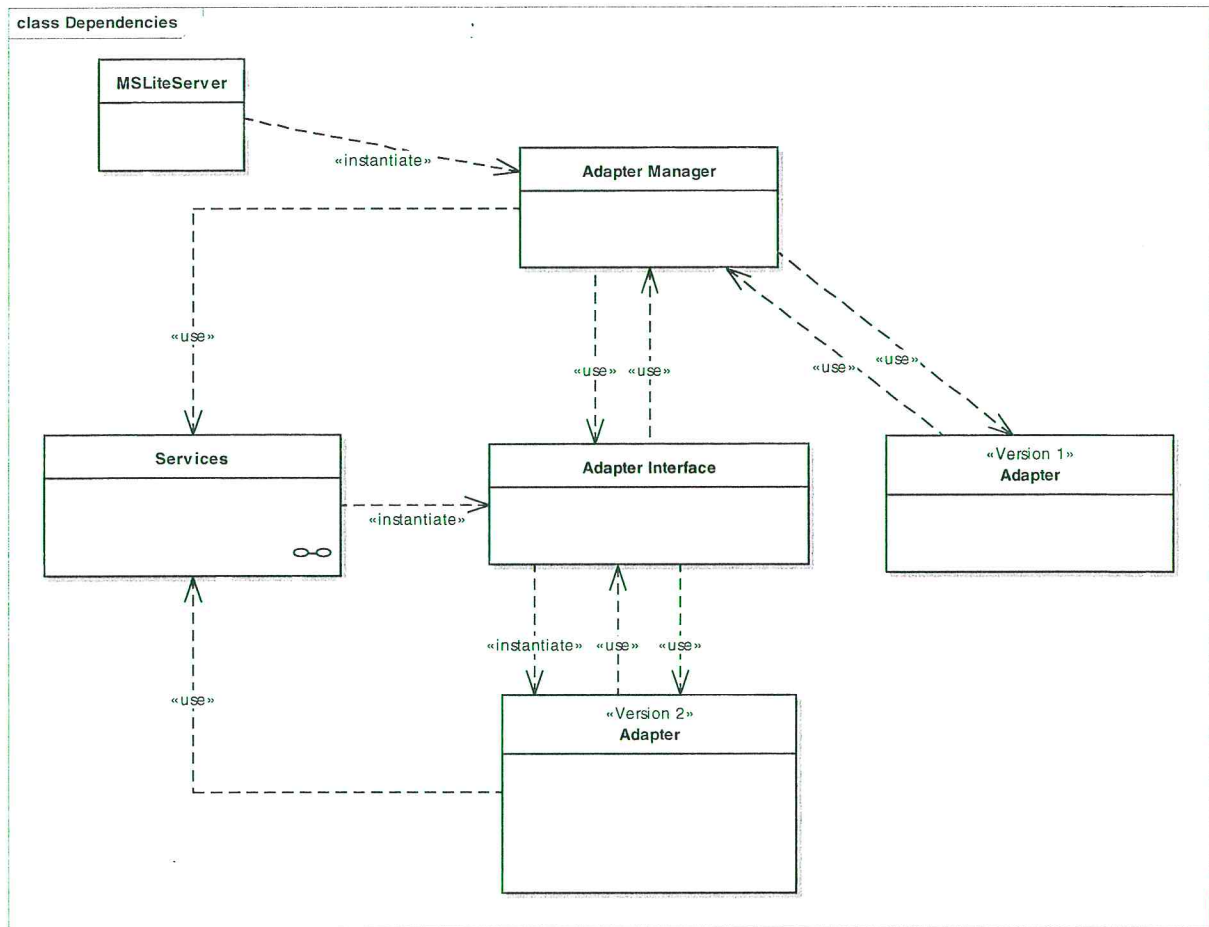
## Documentation Template

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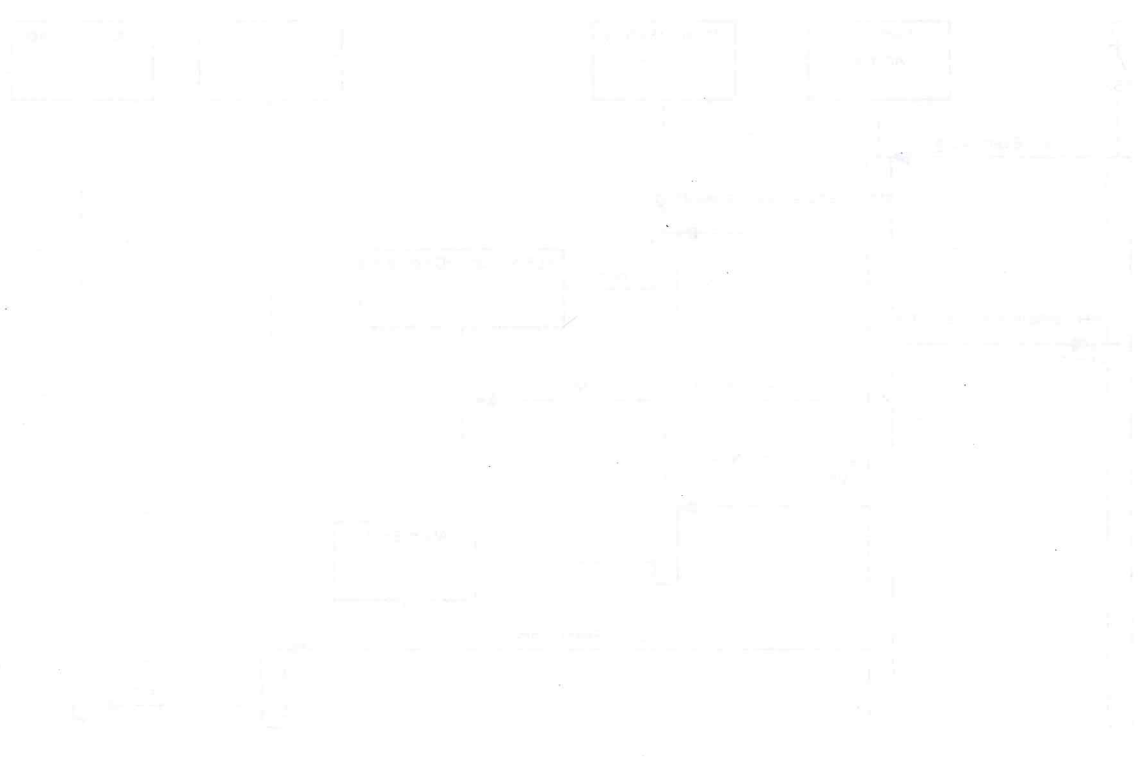
- 1) Create a dependency view that includes at least all the modules that need to be adjusted.
- 2) Create one or more sequence diagrams showing how the new modules would interact in fault situations, such as buffer overflow, threads not returning, etc.
- 3) For every module that needs to be changed or is newly created provide a module description with operations and responsibilities (changes only)
- 4) For every changed/new module create a module context diagram
- 5) Create the detail design hierarchy for the changed/ new modules.

## DEPENDENCY VIEW

Create a dependency view that includes at least all the modules that need to be adjusted.  
Similar to this one:



Exercise 4: see whiteboard picture

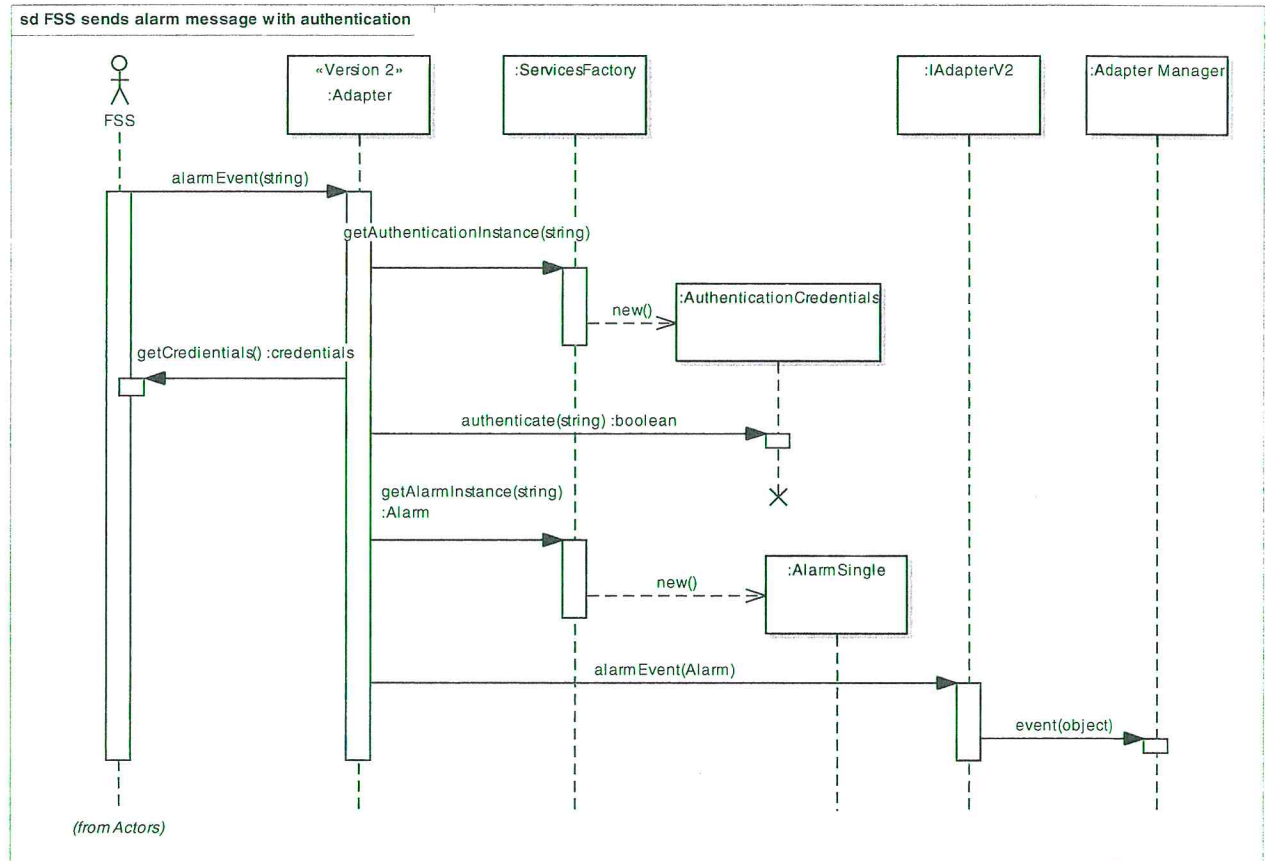


containing back of info. see p. 10

## SEQUENCE DIAGRAMS

Create one or more sequence diagrams showing how the new modules would interact in fault situations, such as buffer overflow, threads not returning, etc.

Similar to this one:



Ex. 4: See whiteboard pictures

1. *Message Queue*  
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 100. *Message Queue*

## MODULE DESCRIPTION

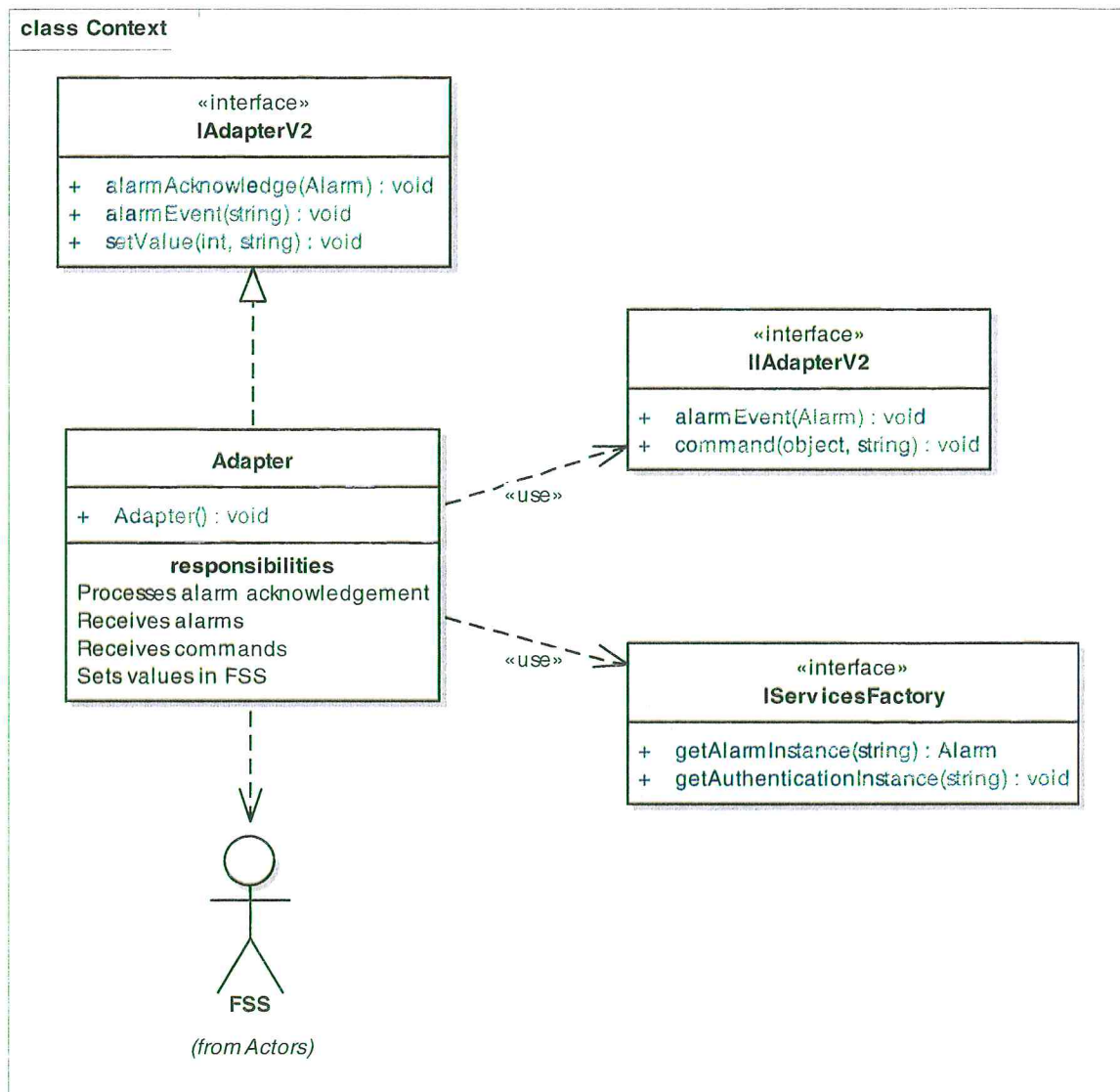
For every module that needs to be changed or is newly created provide a module description with operations and responsibilities (changes only).

Module	Operations	Responsibilities
M1 Coordinator	<ul style="list-style-type: none"> <li>• add notify operation (used by message queue)</li> <li>• manage Timeout</li> </ul>	<ul style="list-style-type: none"> <li>• receive events from message queue.</li> <li>• manage timeouts of Event Publisher</li> </ul>
M2 Thread Pool	<ul style="list-style-type: none"> <li>• get Thread.</li> </ul>	<ul style="list-style-type: none"> <li>• Pool Event Publishers.</li> <li>• Initialize the pool</li> <li>• Supply instances to Coordinator.</li> </ul>
M3 Message Queue	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Queue incoming events</li> <li>• Unqueue events to Coordinator</li> </ul>
M4	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>

Module	Operations	Responsibilities
M5	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>
M6	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>
M7	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>
M8	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>

## MODULE CONTEXT DIAGRAMS

For every changed/new module create a module context diagram.  
Similar to this one:







## **DETAILED DESIGN HIERARCHY**

Create the detail design hierarchy for the changed/ new modules  
For example something like this:

1. PublishSubscribe
  - 1.1. BufferReceiver
    - 1.1.1. Context diagram
    - 1.1.2. Class diagram
    - 1.1.3. Side-by-side view
    - 1.1.4. Classes

