



COUSE MANAGEMENT SYSTEM

Iteration 3: Addressing Quality Attribute Scenario



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Step 2: Establish Iteration Goal by Selecting Drivers

For this iteration the main goal is to further define the architecture into more detail The main drivers selected are:

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QA-1: Performance

QA-7: User Availability

CON-2: The system can only have a max of 4 hours'/month downtime during low intensity hours.

CON-3: The system must be accessible to disabled users who should be able to access full system content.

Step 3: Choose One or More Elements of the System to Refine

We are working on the modules in the different layers that were defined in the previous iteration. We will see how to structure them to support the primary functionality of the system.

The modules refined will be:

- User Interface Display Module
- User Interface Processing Module
- Communication Modules
- Services Module

Step 4: Choose One or More Design Concepts that Satisfy the Selected Drivers

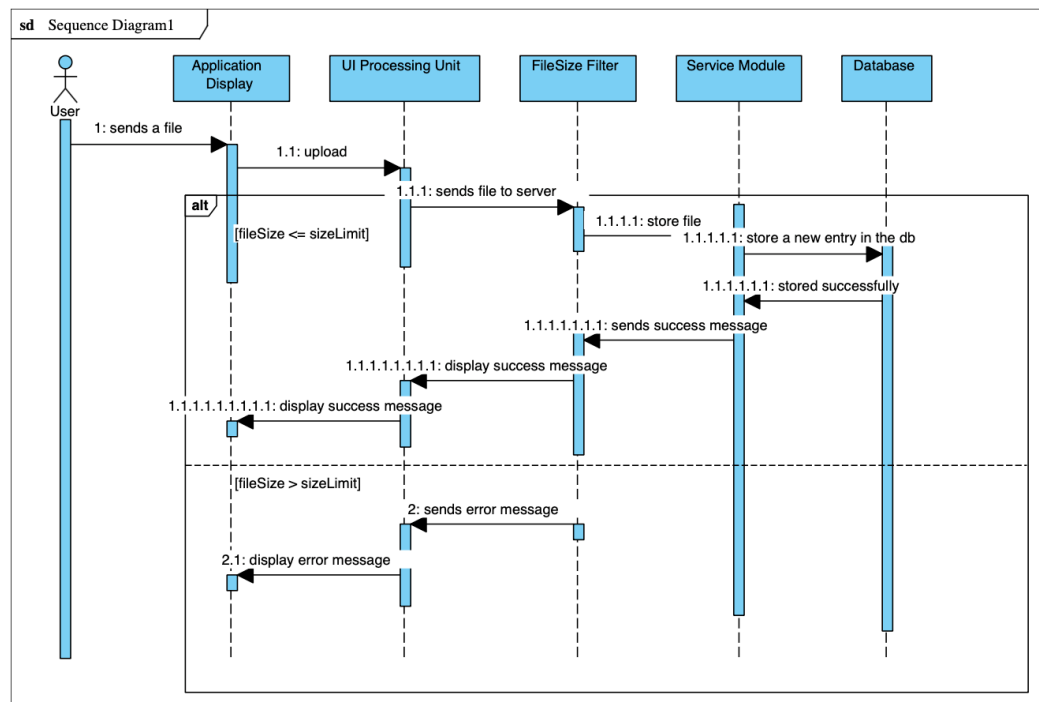
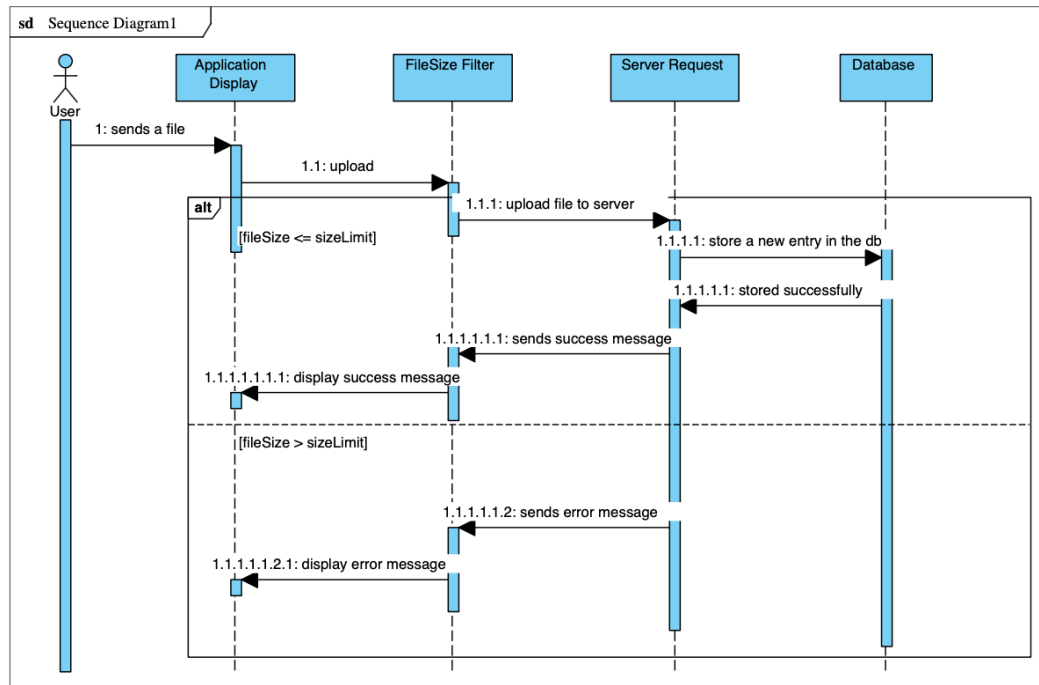
Design Decisions	Rationale
Place a filter in both the Communication Module and Services Module	Place a filter that will enforced the file size rule

Step 5: Instantiate Architectural Elements, Allocate Responsibilities, and Define Interfaces

Design Decisions	Rationale
FileSizeFilter	Receives files that user tries to upload, evaluates the file's size, and proceed to allow or deny the upload process based on the condition of whether the file size is below or above the limit.

Step 6: Sketch Views and Record Design Decisions

The UML sequence diagram shown illustrates how the FileSize filter that was introduced in this iteration exchanges messages with other elements shown in the diagram to support QA-1 The purpose of this diagram is to illustrate the communication that occurs between the different modules.



Step 7: Perform Analysis of Current Design and Review Iteration Goal and Achievement of Design Purpose

The following table summarizes the design process of this iteration using the Kanban board technique. Drivers that were completely addressed in the previous iteration were removed.

Not Addressed	Partially Addressed	Completely Addressed	Design Decisions Made During Iteration
		QA-1	A file size limit module has been added to restrict the upload limit.
QA-4			Was not addressed as no relevant architectural decision required.
QA-7			Was not addressed as no relevant architectural decision required.
CON-3			Was not addressed as no relevant architectural decision required.