



Cape Peninsula
University of Technology

**FACULTY OF INFORMATICS &
DESIGN**

**DIPLOMA in INFORMATION &
COMMUNICATIONS TECHNOLOGY**

**PROJECT 3 GROUP ASSIGNMENT
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Business Rules Draft – Task Management System

Component: File Upload and Collaboration Module

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Scope of Business Rules

These business rules apply to the File Upload and Collaboration module of the Task Management System. The goal is to ensure secure file sharing, real-time task collaboration, and effective tracking of updates within task assignments.

Business Rules

File Upload Rules

1. Users must be authenticated to upload files.
2. Each file must be linked to a specific task ID.
3. Supported file formats: PDF, DOCX, PNG, JPG (others will be rejected).
4. Max file size: 10MB per file; Max 5 files per task.
5. Files are virus-scanned before upload confirmation.
6. Files are encrypted and stored in secure cloud storage.
7. Users may view/delete only their own uploads.
8. Admins may view/delete any file within the system.
9. Upload actions (upload, delete, view) are logged.

Comments & Mentions

1. Any project member can comment on a task.
2. @mentions trigger real-time notifications to the tagged user.
3. Comments are editable for 15 minutes post-submission but cannot be deleted.

Task Dependencies & Subtasks

1. A task with subtasks cannot be marked complete unless all subtasks are completed.
2. Circular dependencies are restricted (e.g., $A \rightarrow B \rightarrow A$ is invalid).

Exception Handling

Attempting to upload unsupported file formats results in:

Error: Unsupported file format. Please upload PDF, DOCX, PNG, or JPG.

Over-limit uploads show:

Error: File exceeds the 10MB size limit or task has maximum files uploaded.

Attempt to assign a file to a non-existent task shows:

Error: Task not found.

Dependencies

File uploads depend on active task assignment.

The File Upload module integrates with the Notifications and Task modules.

Upload logs feed into the audit trail module for admin monitoring.