



Document Management System

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Our Objective

The goal is to set up a Virtual Private Server for our Client Naturae Oils that :

- Will run on Amazon Lightsail
- Will use a LAMP stack and OpenDocMan
- Will implement a docker and version control
- Will be documented well to make revisions simple

Our focus is going to be on the overall security of the server as our client will be housing files with different permissions



Cost Estimation

Hardware: \$30/month

- Amazon Lightsail server

Software: \$0/month

- CentOS
- Apache
- MySQL
- OpenDocMan

Personnel: \$58,000/month

- Developers: \$20,000/month
- QA Testers: \$8,000/month
- Product Owner: \$8,000/month
- Marketing Staff: \$6,000/month
- Project Managers: \$6,000/month
- President: \$10,000/month

Project Timeline

| | Week 1 | | | | | Week 2 | | | | |
|-----------------------------------|--------|----|---|----|---|--------|----|---|----|---|
| | M | Tu | W | Th | F | M | Tu | W | Th | F |
| Definition | | | | | | | | | | |
| Start | | | | | | | | | | |
| Create project plan | | | | | | | | | | |
| Define scope of project | | | | | | | | | | |
| Define roles and responsibilities | | | | | | | | | | |
| Execution | | | | | | | | | | |
| Design project architecture | | | | | | | | | | |
| Build project | | | | | | | | | | |
| Test software | | | | | | | | | | |
| Acceptance | | | | | | | | | | |
| Install | | | | | | | | | | |
| Handover | | | | | | | | | | |
| Finish | | | | | | | | | | |

Estimated total development time: 2 weeks



Functional Requirements

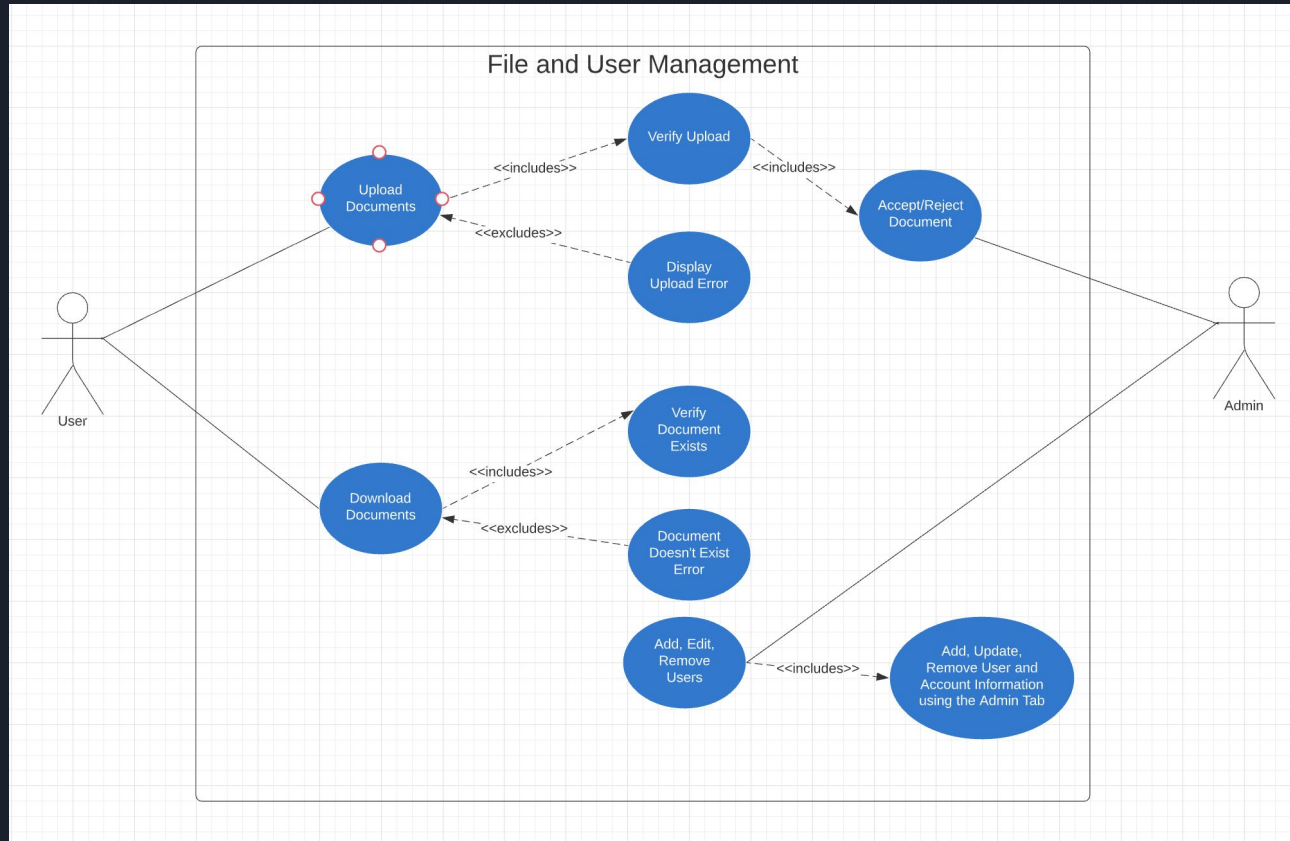
- The system must allow users to log into their account on desktop, mobile, and tablet by entering their username and password.
- The system must allow users to reset their passwords by clicking on the “Reset password” button
- The system must allow users to logout of their account by clicking the “Logout” button
- The system must allow users to upload documents via the “Add Document” tab
- The system must allow users to download uploaded documents by clicking the corresponding links
- The system must allow users with administrator privileges to Accept or Reject documents via the “Check-In” tab
- The system must allow users with administrator privileges to Add, Remove, and Edit other users’ information/accounts via the “Admin” tab

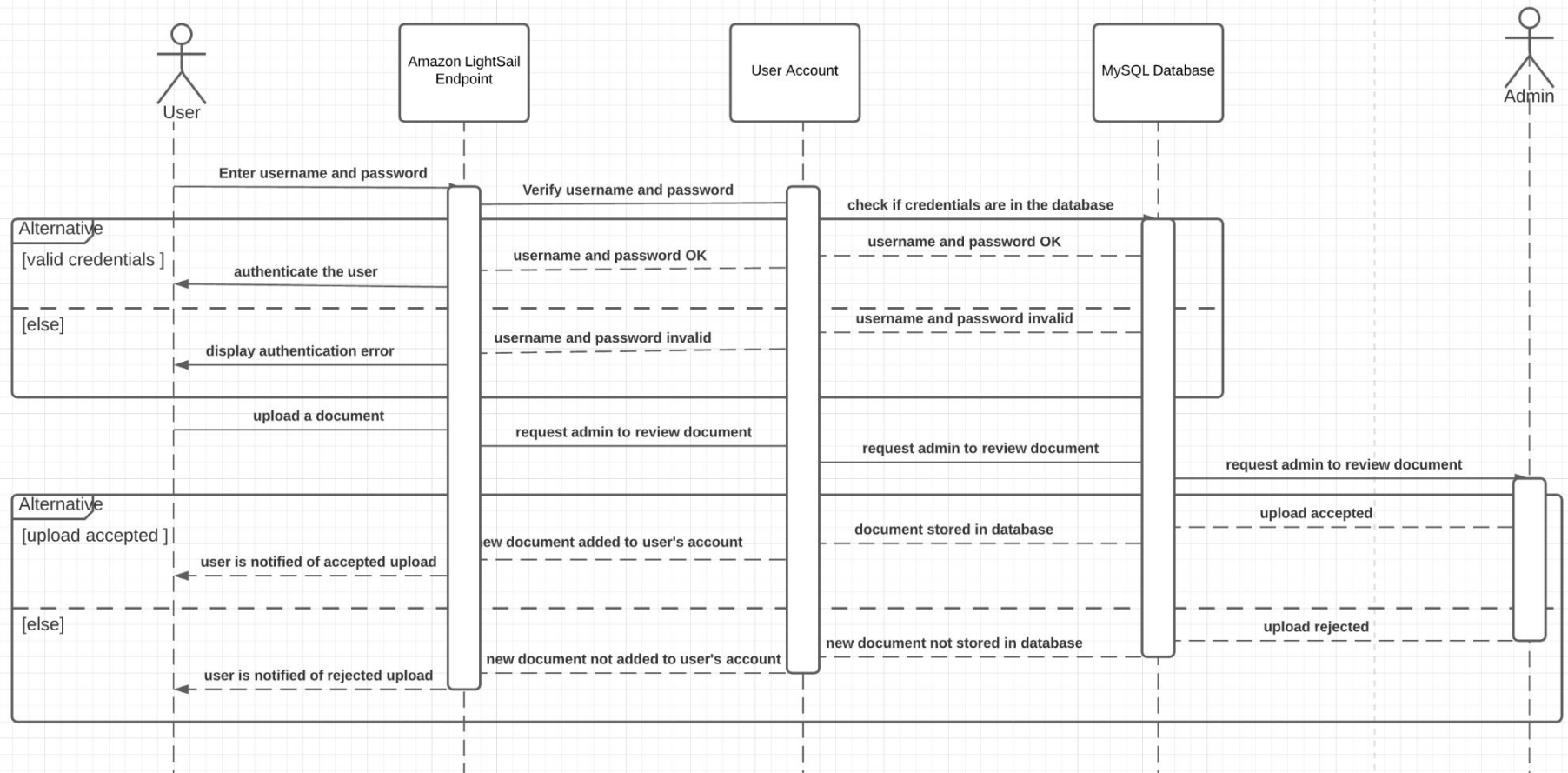


Non-Functional Requirements

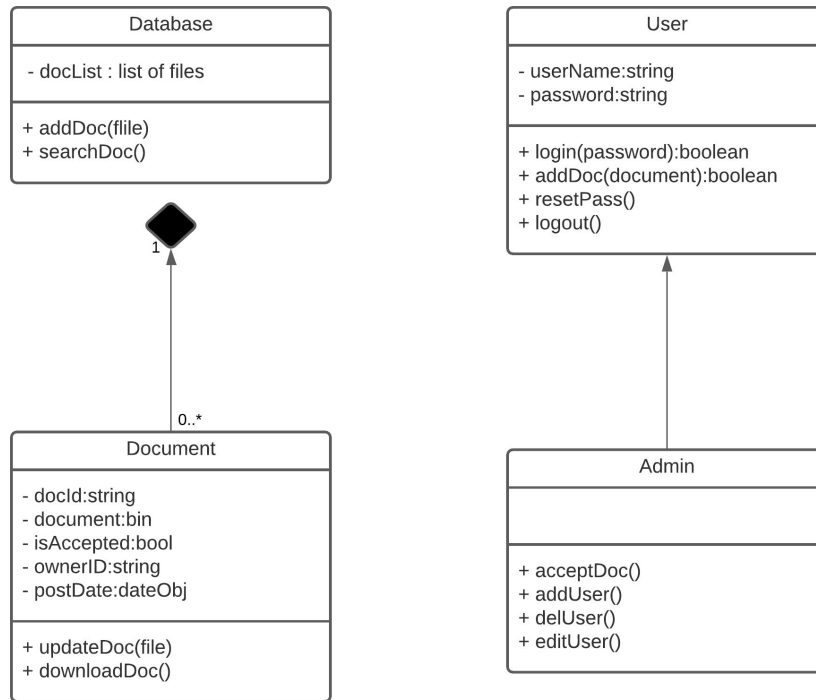
- Usability Requirement – The system should not require training to use and be straightforward to interact with
- Performance Requirement – The system should operate consistently and be able to recover easily from crashes
- Space Requirement – The system must accommodate 40 GB of data a month
- Dependability Requirement – The system must ensure that documents are submitted completely and that no issues occur with documents during the submission process; files must be kept intact and backed up in case of crashes
- Security Requirement – The system must have a secure process of logging in, and usernames/passwords should be encrypted through MySQL database
- Environmental Requirement – The system must be able to process files that are submitted via desktop, laptop, mobile phone, etc., but it will mainly be used with tablets
- Development Requirement – Should allow room for implementation of additional features (data scraping, compiling data into extractable form)
- Accounting Requirement – The system will have a monthly cost of \$5
- Safety/Security Requirement – The system must ensure that login is secure, and it must be able to store sensitive documents safely

Use Case Diagram





Sequence Diagram - Uploading Documents to the System



Class Diagram

Browser web application interface

Authentication, Authorization,

Document Upload, Document Accept / Reject,
Document Download, Add / Remove / Edit User
accounts

Linux Container, MySQL Database, User table,
Document table

Quick Demo : Login



NATURAE

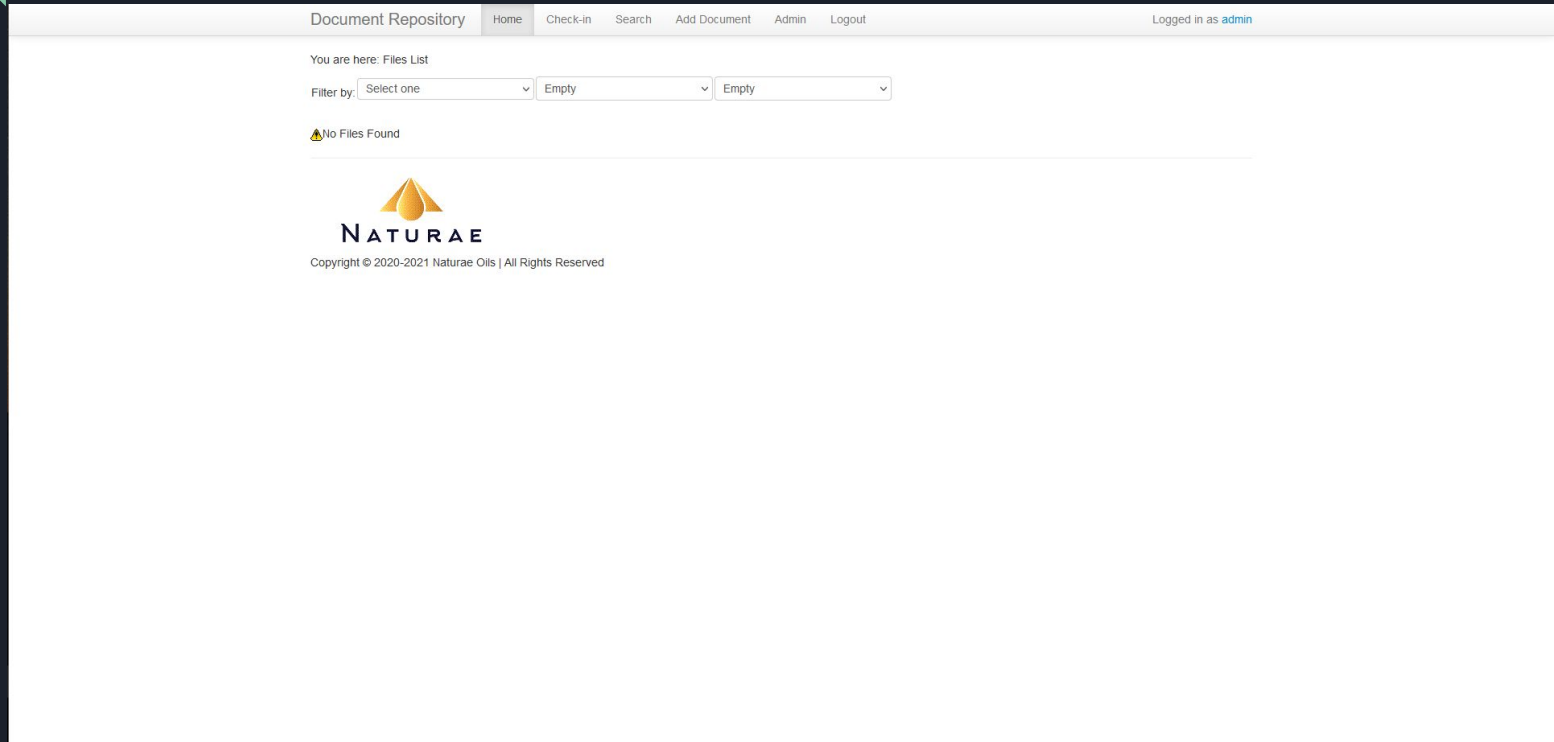
Username

Password

[Forgot your password?](#)

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Quick Demo : Home Page



Quick Demo : Uploading a Document

Document Repository

Home

Check-in

Search

Add Document

Admin

Logout

Logged in as [admin](#)

You are here: Add New File

File Location

Browse...

No files selected.

Assign to owner

User, Admin

Assign to department

Information Systems

Category

Letter

Permissions

Edit Department Permissions

Edit User Permissions

Description

Comment

Submit



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Quick Demo : Search Functionality

Document Repository

Home

Check-in

Search

Add Document

Admin

Logout

Logged in as [admin](#)

You are here: Search

Search term

Search

All non-udf metadata


Exact Phrase:

☐

Case Sensitive

☐

Search


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