Software Requirements Specification

eSagu Document Repository

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Introduction

Purpose :

The purpose of this document is to present a detailed description of the eSagu document repository. It will explain the purpose and features of the website, the contents of the website and the type of data stored in the website.

Scope :

This website had been developed to let users(viewer) access and view data and authenticated users(uploader) can manage the data (access, delete and upload) related to farming and eSagu.
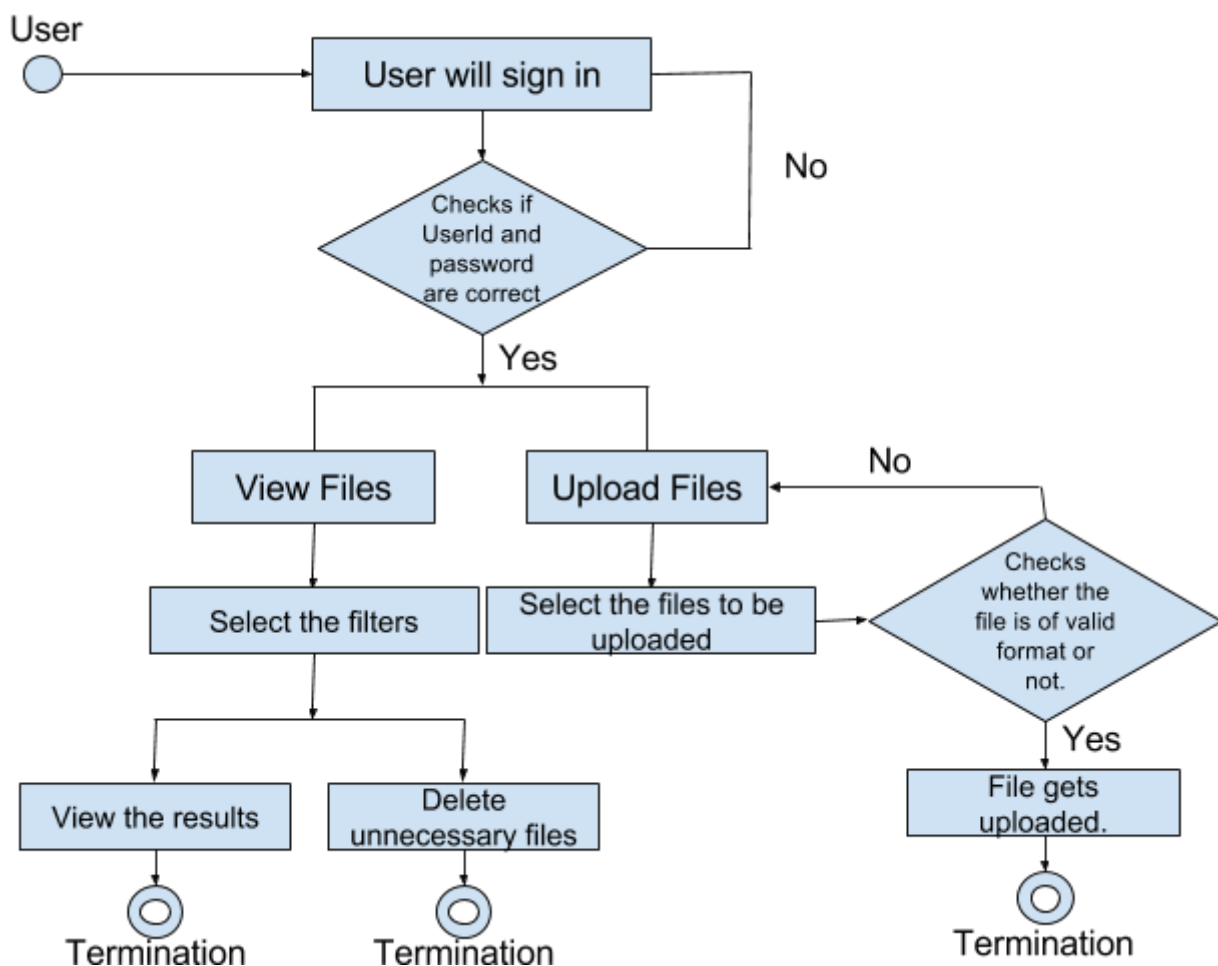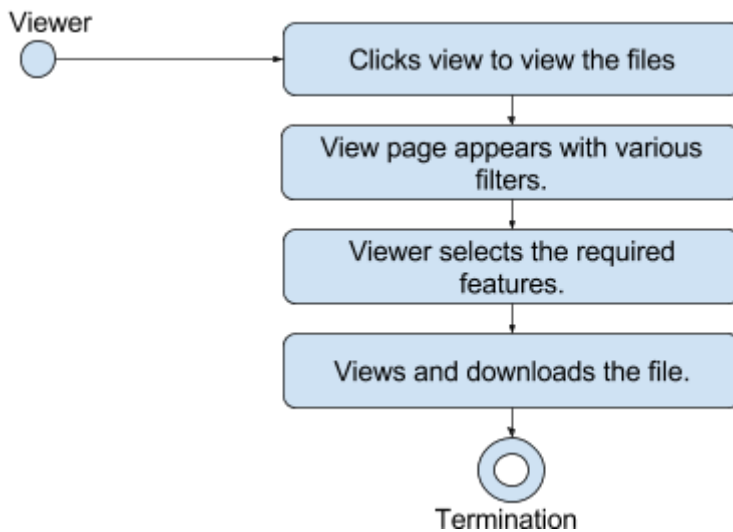
Glossary :

TERM	DEFINITION
Viewer	Anyone who can view the data on the website
Uploader	An authenticated user who can access, upload and delete data from the website
Database	Collection of all the data that is available on the website
HTML(Hyper Text Markup Language)	It is used to create static webpages.
PHP(Hypertext Preprocessor)	It is used in the backend to connect to the database and insert or retrieve data from the database.
Apache 2.0 web server	It aids in hosting the website.

Overall Description

Functional Requirement Specification :

Activity Diagram :

Viewer

Clicks view to view the files

View page appears with various filters.

Viewer selects the required features.

Views and downloads the file.

Termination

User

User will sign in

Checks if UserId and password are correct

No

Yes

View Files

Upload Files

No

Select the filters

Select the files to be uploaded

Checks whether the file is of valid format or not.

Yes

View the results

Delete unnecessary files

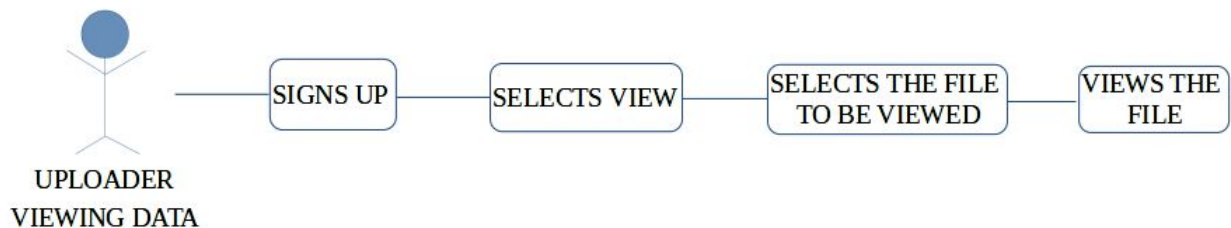File gets uploaded.

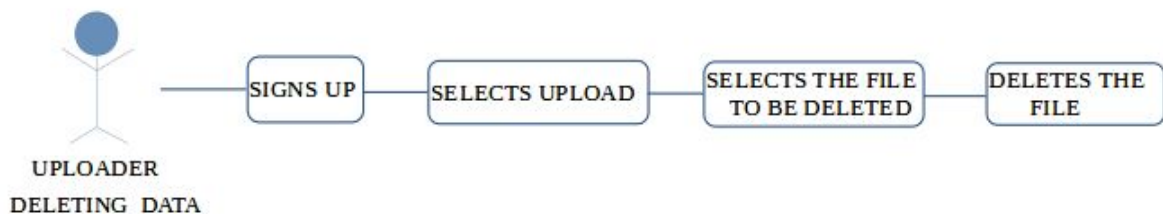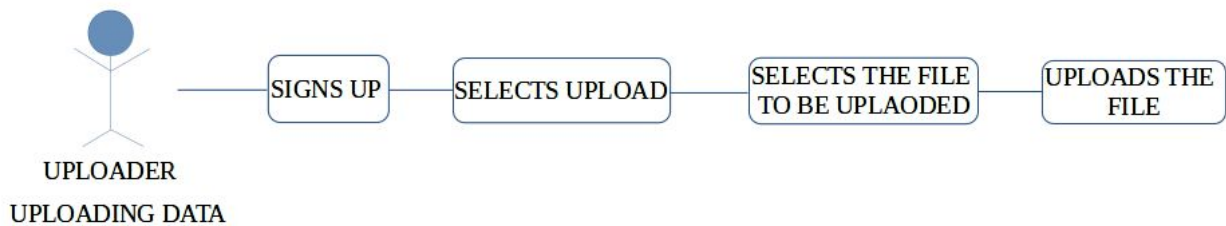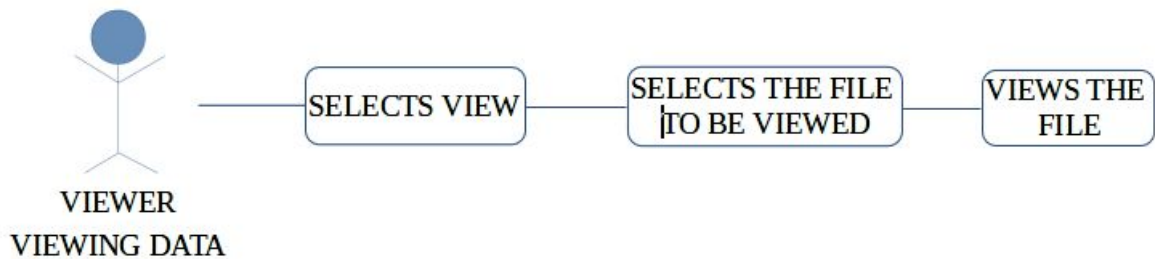Termination

Termination

Termination

Use cases :

They are two kinds of users who interact with the system, the viewer and the uploader.

-Viewer : A viewer is anyone who visits the website to view the uploaded data.

- Uploader : An authenticated user who manages the data on the website. He can access, upload and delete data from the website.

VIEWER
VIEWING DATA

SELECTS VIEW — SELECTS THE FILE TO BE VIEWED — VIEWS THE FILE

UPLOADER
UPLOADING DATA

SIGNS UP — SELECTS UPLOAD — SELECTS THE FILE TO BE UPLAODED — UPLOADS THE FILE

UPLOADER
DELETING DATA

SIGNS UP — SELECTS UPLOAD — SELECTS THE FILE TO BE DELETED — DELETES THE FILE

UPLOADER
VIEWING DATA

SIGNS UP — SELECTS VIEW — SELECTS THE FILE TO BE VIEWED — VIEWS THE FILE

Constraints :

Only data of a specific type can be uploaded.

DATA	TYPE
Images	jpeg, jpg, png
Videos	mp4
PDF	pdf
Doc files	odt, docx
Text files	txt
PPTs	ppt, odp

Database Design

Login :

Field	Type	Null	Key	Default	Extra	Description
UserId	varchar(50)	No	PRI	NULL		The Id of the user logged in.
Password	varchar(50)	No		NULL		Password of the user encrypted with md5.

Files :

Field	Type	Null	Key	Default	Extra	Description
FileId	int(11)	No	PRI	NULL	auto_incr ement	The FileId number of the file in the database.
FileFormatId	int(11)	No	FOR	NULL		FileFormatId describes the format of file. (0-images / 1-videos / 2-pdfs / 3-docs / 4 - text / 5 - ppt)
DocumentTypeI d	int(11)	No	FOR	NULL		DocumentTypeId describes the type of the document. (0 - media / 1 - research/ 2 - project)
PublicationName	varchar(200)	No		NULL		Publication name is the name with which the document has been published
PublicationYear	varchar(5)	No		NULL		It is the year in which the document was published
Language	varchar(15)	No		NULL		The language in which the file was published
Description	varchar(500)	No		NULL		A brief description of the document which enables us to locate the file easily.
FileName	varchar(200)	No		NULL		The name of the file being uploaded.
FilePath	varchar(200)	No		NULL		The location of the file in the system.
UploadDate	date	No		NULL		The uploading date of the file.
UserId	varchar(50)	No	FOR	NULL		UserId - It is the Id of the user which enables us to know which user uploaded

						which file.

FileFormat:

Field	Type	Null	Key	Default	Extra	Description
Format	varchar(15)	NO		NULL		It tells the format of a file. (images, videos, pdf, doc, text, ppt)
Id	int(11)	NO	PRI	NULL		Each format is given an Id.(0 - images/ 1 - videos / 2 - pdf / 3 - doc/ 4 - text, 5-ppt)

DocType:

Field	Type	Null	Key	Default	Extra	Description
Type	varchar(15)	NO		NULL		It tells the type of a file. (0-Media, 1-Research, 2-Projects)
Id	int(11)	NO	PRI	NULL		Each type is given an Id.(0 - Media/ 1 - research / 2 - Projects)

ER model
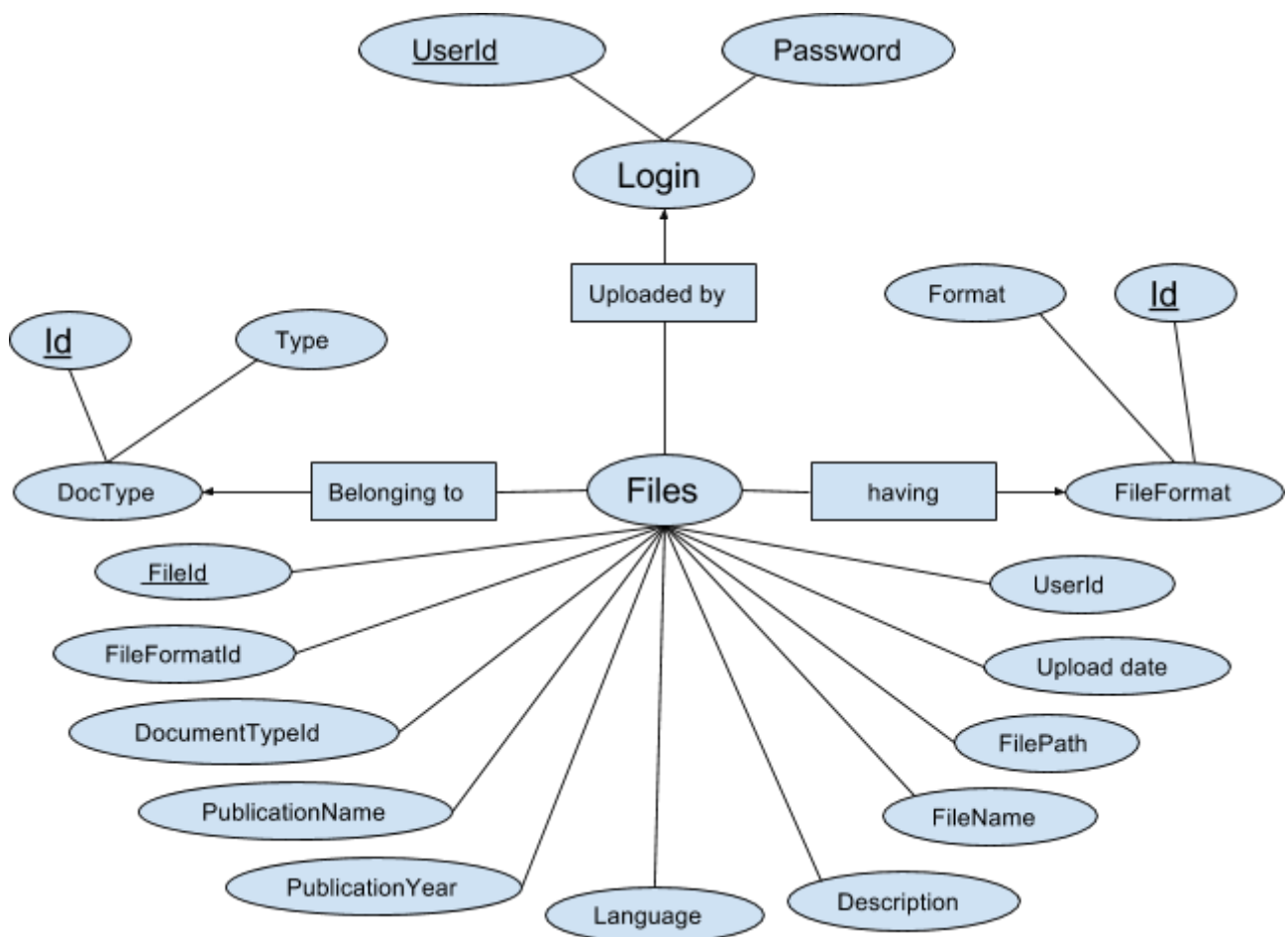
Software Requirements

PHP - It is used in the backend to connect to the database and save(retrieve) data to(from) the database.

Mysql Database – To save data related to the files being uploaded.

Apache 2.0 web server

System details - OS 64 bit , 4GB RAM