

Software Requirements

Project name: - PDF evaluator

Team Number - 10

1.Revision History

Date	Version	Description	Author
Sep 18, 2023	1.0	Brief Problem Statement Stake holders	Venkata Subha Sri Boddu
Sep 18, 2023	1.0	System Requirements	Devi Inakollu
Sep 18, 2023	1.0	Functional Requirements Non-Functional Requirements	Sai Anmol Muddagouni
Sep 16, 2023	1.0	Use Case Diagram Use Case Descriptions	Swapna Priya Pala Chitti Babu
Sep 17, 2023	1.0	Use case Description. Individual Contributions	Dharam Singh Vislavath

2. Brief Problem Statement

PDFs are now a common format for document storage and distribution. They can contain a variety of material, including forms, graphics, and intricate layouts in addition to text-based reports and research papers. Despite their widespread use and comprehending PDFs effectively continues to be a major challenge. Some of the commonly addressed problems are.

1. Inadequate PDF analysis tools
2. Incompatible and non-availability of cross platform support
3. Absence of user-friendly interface
4. Limited PDF content types
5. Not considering workflows

This project aims to provide a solution that addresses the above problems and facilitate better understanding, utilization, and management of the varied content contained within PDF documents by thoroughly addressing these aspects, ultimately providing benefits to a wide range of industries and applications, from business and government to academia and research.

3.Stake Holders

Students / Teachers

The initial version will be given to students and teachers in the University for testing the software. The surveys will be conducted based on the user usage or after few weeks of initial software deployment to take feedback from the users for further development process. Before the final stage some group of students and teachers will be selected to test the software vigorously in their daily academic life. And again, the feedback will be taken from the selected group as a stage of final development process.

Software Engineering Team

The software engineering team will be having responsibilities during the project development cycle:

- Identifying the project requirements.
- Identifying the features of the final deployment software.
- Conducting Software testing during stages.
- Dividing the work among team members to ensure a systematic development of project.
- Conducting regular meetings on the work progress.
- Identify the delay risks involved during the project cycle.
- Having a clear deadline on project stages to ensure in time project development.

Design experts

They ensure the web application is user friendly experience and provide a better user experience.

Project Team

They are the internal team that are responsible for the successful implementation of the website.

Students

We the team of 5 members who are developing the project are the primary stakeholders.

Professor

The professor who will evaluate the project is a critical stakeholder. They will assess the project's quality, functionality, and adherence to the assignment or coursework requirements.

Peers

Classmates who are not part of the project team but are part of the class may also be considered stakeholders. They might witness the project demonstration and potentially provide feedback.

4. System Requirements:

The PDF Evaluator will consist of a centralized web-based application that has a list of requirements as following:

- The project shall use **JavaScript, HTML, CSS, Bootstrap** and **PHP** as a programming language.
- The project shall use **React js** as a Framework.
- The project shall use **MySQL cloud database** as a Backend database.

5.Functional Requirements

No.	User story name	Description	Release
1	VIEW PDF	The ability to open and see a pdf from any source including all the images, text etc.	R1
2	IMPORTING CONTEXT	The ability to import the content from the external source to the evaluator for evaluating the document.	R1
3	SEARCH OPTION	The ability to search for the required content in the pdf such as a word or a sentence that we require instead of going through the whole pdf.	R2
4	EXPORTING CONTENT	After evaluating the pdf, it should be able to export the processed content with the pdf.	R2
5	PRIVACY AND SECURITY	The ability of the document to protect the data of the users from any kind of external harmful source to make the pdf password protected.	R2
6	CUSTOMIZABILITY	to be able to view the file however you want to such as text size, zoom in and out, highlight particular content etc	R2

7	REGISTRATION	the user should first register on the website to be able to use the pdf evaluator. They should sign up with their mail id or phone number and then they can use the website for evaluating the pdf.	R1
8	DOCUMENT CONVERSION	The ability to convert the document in any format needed such as word, excel.	R1
9	ERROR HANDLING	The system can check on updates and fix it, if there are any bugs to ensure the security.	R1
10	DOWNLOAD THE REPORT	after evaluating the pdf, it can be saved and downloaded from the website.	R2
11	VIEW RESULT	after evaluating the whole pdf, we can cross check the result before downloading the pdf.	R1
12	ADDING SIGNATURE	we can add a signature to the pdf before downloading it to just ensure our security and authenticity.	R2
13	View Documents	The user can see all the documents that he has uploaded previously	R2

6.Non-Functional Requirements

PERFORMANCE

- The pdf evaluator should provide easy scaling through the pdf; it should give quick responses and make it easy for the users to interact with the pdf on the website.

BACKUP

- the system should be able to backup files in case of any errors or failures and should not miss the data.

RESOURCE MANAGEMENT

- The pdf evaluator should use all the resources efficiently and should not over or less use any resource.

SECURITY

- The evaluator should protect the data of the users from any breach. The evaluator should always try to meet the security standards.

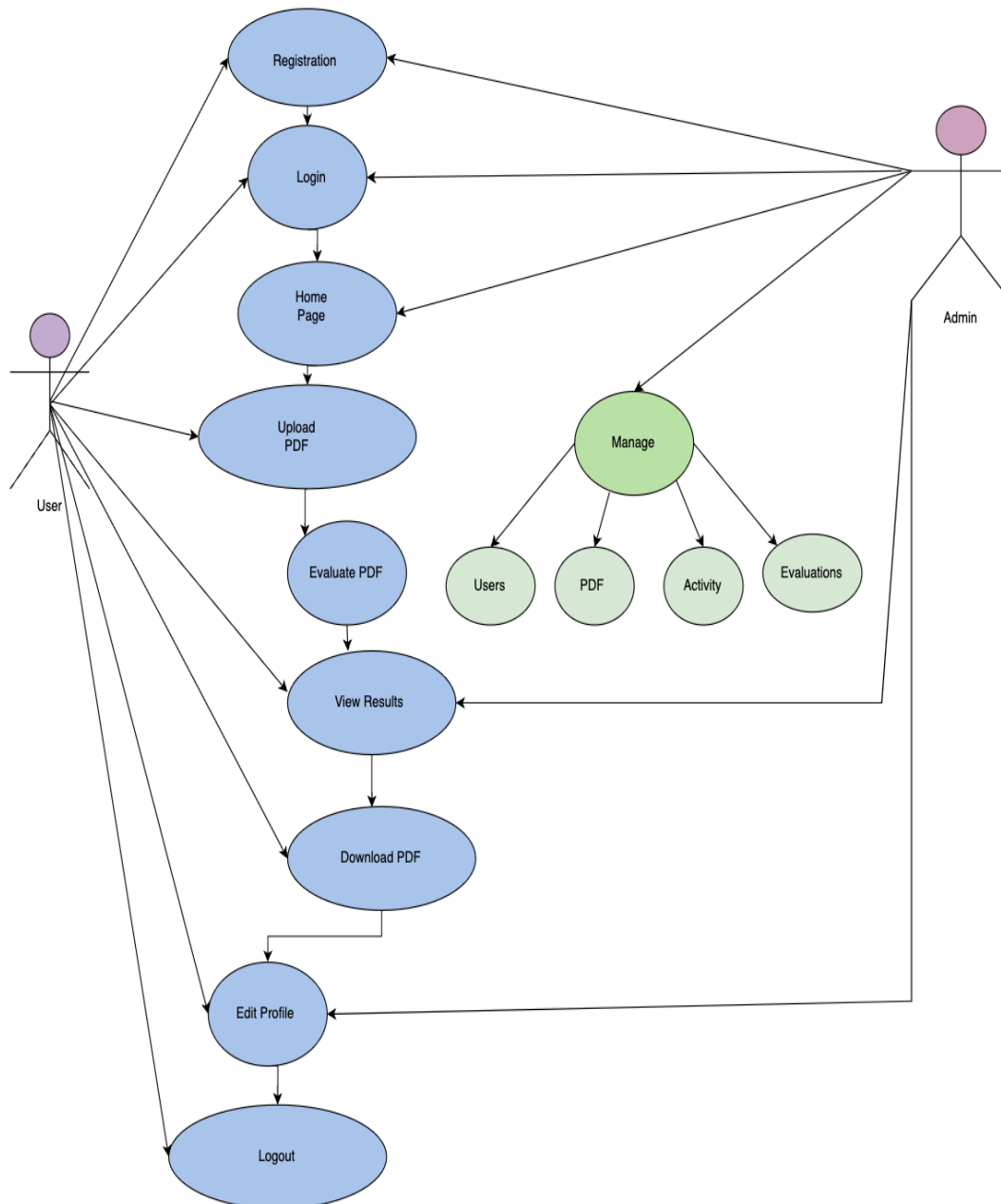
USABILITY

- This website will be accessible for all the user, and it must be user friendly. Where user can easily understand how to navigate on the website

COMPATIBILITY

- This website is compatible for all the web browsers.

7.Use Case Diagram:



Use case diagram.

8. Use Case Descriptions:

Use Case number	UC-01
Use case name	Registration
Overview	User has to enter has to enter his or her personal information for registering
Actors	Users, Admin
Precondition	<ul style="list-style-type: none"> • The portal has been set up and running successfully. • The user has accessed the portal through given URL
Scenario flow	<p>The user will select the option to register.</p> <p>The system will request to enter few personal information.</p> <p>The user will provide the personal information like</p> <ul style="list-style-type: none"> • First Name • Last Name • Email ID • Username • Password <p>The System verifies the information and creates the account and displays successful registration.</p> <p>If any detail is missing the system it displays error message</p>
Alternate flow	The user cancels the registration before clicking on submit button

Post condition	The system will not store the user details unless user click on register
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Use Case number	UC-02
Use case name	Login
Overview	User has to enter his or her Login credentials in order to login to the website
Actors	Users, Admin
Precondition	The user has to be registered. The user be able to access home page
Scenario flow	<ol style="list-style-type: none"> 1. The user enters his or her. <ul style="list-style-type: none"> • Username • Password 2. The system verifies the details provided by the user. 3. If the credentials are correct the user will be able to access homepage 4. If the credentials are wrong the system will display error message
Alternate flow	Not Applicable
Post condition	The user will be able to access home page

Use Case number	UC-03
Use case name	Home Page
Overview	User or admin after entering their credentials they will be redirected to home page of the website
Actors	Users, Admin
Precondition	The user must enter correct credentials
Scenario flow	After user entering the username and password the user will now be able to access the home page of the system
Alternate flow	Not applicable
Post condition	The user will be able to see the document upload option

Use Case number	UC-04
Use case name	Upload PDF
Overview	The user will be able to upload a PDF by clicking on upload
Actors	users
Precondition	The user must login to the website
Scenario flow	<ul style="list-style-type: none">• User must login to the website with correct login credentials• After login the user will be redirected to home page where upload a PDF option will be seen• The user can select a file from computer and upload the PDF.
Alternate flow	If submit button is not selected file will not be uploaded
Post condition	The PDF will be uploaded for evaluation

Use Case number	UC-05
Use case name	Evaluate PDF
Overview	The PDF will be evaluated
Actors	users
Precondition	The user must submit the file only in the form of PDF
Scenario flow	<ul style="list-style-type: none">• The user must select upload option and submit the PDF.• Once the PDF is uploaded the system displays successfully uploaded.• Once PDF is submitted the file will be evaluated on certain conditions.
Alternate flow	Not applicable
Post condition	After evaluating the report will be generated and will have a option to download the report

Use Case number	UC-06
Use case name	Manage Users
Overview	Provides admin with the ability to manage user accounts.
Actors	Admin
Precondition	The admin is logged in.
Scenario flow	The admin can perform various actions to manage user accounts, including creating, editing, or deleting user accounts.
Alternate flow	Not applicable
Post condition	Admin can manage the users

Use Case number	UC-07
Use case name	Manage PDF
Overview	Allows admin to manage PDF files, including uploading, editing, or deleting them.
Actors	Admin
Precondition	The admin is logged in.
Scenario flow	The admin can perform actions like uploading new PDF files, editing existing PDF metadata, or deleting PDF files.
Alternate flow	Not applicable
Post condition	Admin can manage the pdf files

Use Case number	UC-08
Use case name	Manage Activity
Overview	Enables admin to manage system activities or logs.
Actors	Admin
Precondition	The admin is logged in.
Scenario flow	The admin can view and analyze system activity logs, which may include user actions and system events.
Alternate flow	Not applicable
Post condition	Admins have access to manage different activities

Use Case number	UC-09
Use case name	Manage Evaluations
Overview	Gives admin control over the settings and configuration of the PDF evaluator component.
Actors	admin
Precondition	The admin is logged in.
Scenario flow	The admin can configure parameters and criteria used by the Evaluator component for PDF analysis and evaluation.
Alternate flow	Not applicable
Post condition	The admin has access to manage all the evaluations of the user

Use Case number	UC-10
Use case name	View Results
Overview	Allows users to access and view the evaluation results.
Actors	admin, users
Precondition	Evaluation results are available for the user.
Scenario flow	User navigates to the "View Results" section. User selects a specific evaluation result to view. System displays the evaluation details and scores to the user.
Alternate flow	Not Applicable
Post condition	The user can view the result of the uploaded PDF

Use Case number	UC-11
Use case name	Edit profile
Overview	User and admin can access to edit the profile
Actors	User, admin
Precondition	User and admin logged in
Scenario flow	Admin and user can customize their profile
Alternate flow	Not applicable
Post condition	Users and admin can edit and save the profile

Use Case number	UC-12
Use case name	Download Result
Overview	Allows administrators, users to download evaluation results in a downloadable format.
Actors	Admin, users
Precondition	Evaluation results are available for the users, admin
Scenario flow	<ul style="list-style-type: none"> • Admin, User navigates to the "View Results" section. • Admin, User selects a specific evaluation result they want to download. • System provides an option to download the evaluation result. • Admin, User initiates the download process. • System generates a downloadable file (e.g., PDF or CSV) containing the evaluation details. • User's browser prompts them to save or open the file. <p>User chooses to save the file to their local device.</p>
Alternate flow	If the uploaded file format is wrong error message will be popped up
Post condition	The result of the uploaded PDF can be viewed

Individual Contributions:

NAME	ID NUMBER	WORK DONE
Devi Inakollu	11647678	Worked on Project description Problem statement
Venkata Subha Sri Boddu	11697978	Worked on Stake holders System requirements
Sai Anmol Muddagouni	11594265	Worked on Functional & Nonfunctional Requirements
Swapna Priya Pala Chitti Babu	11609223	Worked on Use cases diagram Use case description
Dharam Singh Vislavath	11714564	Worked on Use cases description